

2013 Index

IEEE Sensors Journal

Vol. 13

This index covers all technical items — papers, correspondence, reviews, etc. — that appeared in this periodical during 2013, and items from previous years that were commented upon or corrected in 2013. Departments and other items may also be covered if they have been judged to have archival value.

The Author Index contains the primary entry for each item, listed under the first author's name. The primary entry includes the coauthors' names, the title of the paper or other item, and its location, specified by the publication abbreviation, year, month, and inclusive pagination. The Subject Index contains entries describing the item under all appropriate subject headings, plus the first author's name, the publication abbreviation, month, and year, and inclusive pages. Note that the item title is found only under the primary entry in the Author Index.

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- Bonfiglio, A.**, see Seminara, L., *JSEN Oct. 2013 4022-4029*
- Bonfiglio, A.**, see Loi, A., *JSEN Dec. 2013 4764-4772*
- Bonjour, L.-E.**, Beyeler, D., Blanc, N., and Kayal, M., CMOS Demodulation Image Sensor for Nanosecond Optical Waveform Analysis; *JSEN May 2013 1487-1497*
- Bonner, J. S.**, see Fuller, C. B., *JSEN Nov. 2013 4546-4555*
- Booth, C.**, see Orr, P., *JSEN June 2013 2053-2054*
- Boppel, S.**, see Lisauskas, A., *JSEN Jan. 2013 124-132*
- Bore, T.**, Placko, D., Taillade, F., and Himbert, M., Capacitive Sensor for Measuring the Filled of Post-Tensioned Ducts. Experimental Setup, Modeling and Signal Processing; *JSEN Feb. 2013 457-465*
- Boric-Lubecke, O.**, see Massagram, W., *JSEN Sept. 2013 3397-3404*
- Boric-Lubecke, O.**, see Padasdao, B., *JSEN Nov. 2013 4204-4211*
- Boric-Lubecke, O.**, see Mostafanezhad, I., *JSEN May 2013 1897-1904*
- Bosch, T.**, see Zabit, U., *JSEN Feb. 2013 824-831*
- Bosch, T.**, see Bernal, O. D., *JSEN Dec. 2013 4962-4971*
- Bosch, T.**, see Zabit, U., *JSEN June 2013 2200-2207*
- Boubanga-Tombet, S. A.**, see Watanabe, T., *JSEN Jan. 2013 89-99*
- Boukadoum, M.**, see Trabelsi, A., *JSEN Feb. 2013 657-663*
- Bourbakis, N.**, Makrogiannis, S. K., and Dakopoulos, D., A System-Prototype Representing 3D Space via Alternative-Sensing for Visually Impaired Navigation; *JSEN July 2013 2535-2547*
- Bouvier, S.**, see Servagent, N., *JSEN May 2013 1865-1882*
- Bowen, J. W.**, see Hadjiloucas, S., *JSEN Jan. 2013 111-123*
- Bowen, J. W.**, Hadjiloucas, S., Walker, G. C., Huebers, H.-W., and Schubert, J., Interferometric Technique for Measuring Terahertz Antenna Phase Patterns; *JSEN Jan. 2013 100-110*
- Bowring, N. J.**, see Andrews, D. A., *JSEN Dec. 2013 4948-4954*
- Boyer, F.**, see Servagent, N., *JSEN May 2013 1865-1882*
- Bozaci, H. M.**, see Cinar, K., *JSEN July 2013 2643-2647*
- Bradley, M.**, see Damarla, T., *JSEN MAY 2013 1464-1472*
- Bramanti, A.**, see Morabito, F. C., *JSEN Sept. 2013 3255-3262*
- Brambilla, G.**, see Wang, P., *JSEN Jan. 2013 180-185*
- Brante, G.**, de Santi Peron, G., Souza, R. D., and Abrao, T., Distributed Fuzzy Logic-Based Relay Selection Algorithm for Cooperative Wireless Sensor Networks; *JSEN Nov. 2013 4375-4386*
- Brebels, S.**, see Torfs, T., *JSEN March 2013 909-915*
- Brechtel, F. J.**, see Jaramillo, G., *JSEN Aug. 2013 2993-3000*
- Bremer, K.**, see Alwis, L., *JSEN March 2013 1117-1124*
- Brenneman, K. L.**, Poduri, S., Stroschio, M. A., and Dutta, M., Optical Detection of Lead(II) Ions Using DNA-Based Nanosensor; *JSEN May 2013 1783-1786*
- Briand, D.**, see Mattana, G., *JSEN Oct. 2013 3901-3909*
- Bridges, G. E.**, see Bhadra, S., *JSEN June 2013 2428-2436*
- Briggs, T. M.**, see Loyola, B. R., *JSEN June 2013 2357-2367*
- Broeders, J.**, Croux, D., Peeters, M., Beyens, T., Duchateau, S., Cleij, T. J., Wagner, P., Thoelen, R., and De Ceuninck, W., Mobile Application for Impedance-Based Biomimetic Sensor Readout; *JSEN July 2013 2659-2665*
- Brouk, I.**, see Savuskan, V., *JSEN May 2013 1637-1640*
- Brouk, I.**, see Savuskan, V., *JSEN June 2013 2322-2328*
- Bruckner, G.**, see Binder, A., *JSEN May 2013 1801-1805*
- Brugger, J.**, see Fang, W., *JSEN Aug. 2013 2809*
- Brugger, J.**, see Henriksson, J., *JSEN Aug. 2013 2849-2856*
- Brunelli, D.**, see Jelacic, V., *JSEN Jan. 2013 328-338*
- Brusey, J.**, see Gaura, E. I., *JSEN Oct. 2013 3816-3825*
- Buffa, C.**, see Jaramillo, G., *JSEN Aug. 2013 2993-3000*
- Burdet, E.**, see Esmaili, M., *JSEN Sept. 2013 3293-3301*
- Burkholder, R. J.**, see Shao, S., *JSEN Oct. 2013 3767-3774*
- Busch, J. R.**, see Sielmann, C. J., *JSEN Oct. 2013 4005-4013*
- Butler, D. P.**, see Ahmed, M., *JSEN Oct. 2013 4081-4089*

C

- Cabeleira, M.**, see Pereira, T., *JSEN May 2013 1434-1441*
- Caicedo, D.**, and Pandharipande, A., Distributed Illumination Control With Local Sensing and Actuation in Networked Lighting Systems; *JSEN March 2013 1092-1104*
- Caillouet, K. A.**, see Biswas, A. K., *JSEN Nov. 2013 4423-4431*
- Caldeira, J. M. L. P.**, Rodrigues, J. J. P. C., and Lorenz, P., Intra-Mobility Support Solutions for Healthcare Wireless Sensor Networks—Handover Issues; *JSEN Nov. 2013 4339-4348*
- Calvo, B.**, see Azcona, C., *JSEN June 2013 2382-2390*
- Campbell, K. D.**, see Chen, C., *JSEN May 2013 1748-1755*
- Campolo, D.**, see Esmaili, M., *JSEN Sept. 2013 3293-3301*
- Campos, F. S.**, Faramarzpour, N., Marinov, O., Deen, M. J., and Swart, J. W., Photodetection With Gate-Controlled Lateral BJTs From Standard CMOS Technology; *JSEN May 2013 1554-1563*
- Canals, T.**, see Riba, J.-R., *JSEN July 2013 2763-2770*
- Canavese, G.**, Stassi, S., Cauda, V., Verna, A., Motto, P., Chiodoni, A., Marasso, S. L., and Demarchi, D., Different Scale Confinements of PVDF-TrFE as Functional Material of Piezoelectric Devices; *JSEN June 2013 2237-2244*
- Cannata, G.**, see Loi, A., *JSEN Dec. 2013 4764-4772*
- Cannata, G.**, see Maiolino, P., *JSEN Oct. 2013 3910-3917*
- Canning, J.**, see Perry, M., *JSEN Feb. 2013 816-823*
- Cantalini, C.**, see De Marcellis, A., *JSEN July 2013 2792-2798*
- Cantero, R.**, see Riba, J.-R., *JSEN July 2013 2763-2770*
- Cantoral-Ceballos, J. A.**, and Ozanyan, K. B., Parallel-Data Reconstruction for Limited Views Tomography Sensors by Sinusoidal Hough Transform; *JSEN Feb. 2013 581-588*
- Cao, B.**, Ge, Y., Kim, C. W., Feng, G., Tan, H. P., and Li, Y., An Experimental Study for Inter-User Interference Mitigation in Wireless Body Sensor Networks; *JSEN Oct. 2013 3585-3595*
- Cao, H.**, see Tata, U., *JSEN Feb. 2013 444-445*
- Cao, H.**, see Nguyen, C. M., *JSEN Oct. 2013 3857-3864*

- Cao, X.**, see Liu, X., *JSEN Aug. 2013 3016-3024*
- Cao, Z.**, Ji, X., Wang, R., Zhang, Z., Shui, T., Xu, F., and Yu, B., Compact Fiber Sensor With High Spatial Resolution for Simultaneous Strain and Temperature Measurement; *JSEN May 2013 1447-1451*
- Caputo, D.**, de Cesare, G., Dolci, L. S., Mirasoli, M., Nascetti, A., Roda, A., and Scipinotti, R., Microfluidic Chip With Integrated a-Si:H Photodiodes for Chemiluminescence-Based Bioassays; *JSEN July 2013 2595-2602*
- Caratelli, D.**, see Lay-Ekuakille, A., *JSEN Sept. 2013 3331-3340*
- Carbone, G.**, see Massaro, A., *JSEN Feb. 2013 548-555*
- Cardone, G.**, see Bellavista, P., *JSEN Oct. 2013 3558-3567*
- Cardoso, J.**, see Pereira, T., *JSEN May 2013 1434-1441*
- Carley, L. R.**, see Tang, Y., *JSEN Aug. 2013 2984-2992*
- Carne, M.**, see Maier, R. R. J., *JSEN March 2013 969-979*
- Carnegie, D. A.**, see Drayton, B. M. M., *JSEN Sept. 2013 3386-3396*
- Carney, J. R.**, see Mah, M. L., *JSEN May 2013 1742-1747*
- Carrara, S.**, Bolomey, L., Boero, C., Cavallini, A., Meurville, E., De Micheli, G., Jost, T. R., Proietti, M., and Grassi, F., Remote System for Monitoring Animal Models With Single-Metabolite Bio-Nano-Sensors; *JSEN March 2013 1018-1024*
- Carrara, S.**, see Baj-Rossi, C., *JSEN Dec. 2013 4860-4865*
- Carrez, F.**, see Ganz, F., *JSEN Oct. 2013 3793-3805*
- Carrivick, J. L.**, see Hobby, M. J., *JSEN Feb. 2013 492-500*
- Casciaro, E.**, see Casciaro, S., *JSEN June 2013 2305-2312*
- Casciaro, S.**, Soloperto, G., Greco, A., Casciaro, E., Franchini, R., and Conversano, F., Effectiveness of Functionalized Nanosystems for Multimodal Molecular Sensing and Imaging in Medicine; *JSEN June 2013 2305-2312*
- Casciaro, S.**, see Lay-Ekuakille, A., *JSEN Sept. 2013 3331-3340*
- Casciaro, S.**, see Menichetti, L., *JSEN June 2013 2341-2347*
- Castillo-Guerra, E.**, see Farahani, M. A., *JSEN Jan. 2013 263-272*
- Castillo-Guerra, E.**, see Farahani, M. A., *JSEN Dec. 2013 4589-4598*
- Catarinucci, L.**, Tedesco, S., and Tarricone, L., Customized Ultra High Frequency Radio Frequency Identification Tags and Reader Antennas Enabling Reliable Mobile Robot Navigation; *JSEN Feb. 2013 783-791*
- Cauda, V.**, see Canavese, G., *JSEN June 2013 2237-2244*
- Cauwenberghs, G.**, see Mignani, A. G., *JSEN March 2013 889*
- Cavallier, B.**, see Le Rouzic, J., *JSEN April 2013 1340-1346*
- Cavallini, A.**, see Carrara, S., *JSEN March 2013 1018-1024*
- Celik-Butler, Z.**, Dahiya, R. S., Quevedo-Lopez, M., Xu, Y., and Wagner, S., Guest Editorial: Special issue on flexible sensors and sensing systems; *JSEN Oct. 2013 3854-3856*
- Celik-Butler, Z.**, see Ahmed, M., *JSEN Oct. 2013 4081-4089*
- Celma, S.**, see Azcona, C., *JSEN June 2013 2382-2390*
- Chadha, A.**, see Veeramani, M. S., *JSEN May 2013 1941-1948*
- Chai, M.**, see Le, A., *JSEN Oct. 2013 3685-3692*
- Chakrabarti, A.**, see Chakraborty, A., *JSEN July 2013 2771-2779*
- Chakraborty, A.**, Rout, R. R., Chakrabarti, A., and Ghosh, S. K., On Network Lifetime Expectancy With Realistic Sensing and Traffic Generation Model in Wireless Sensor Networks; *JSEN July 2013 2771-2779*
- Chakravorty, S.**, see Dalai, S., *JSEN Feb. 2013 563-573*
- Chambers, A.**, see Valer, J. C., *JSEN Aug. 2013 3046-3052*
- Chan, B.-D.**, Icoz, K., Gieseck, R. L., and Savran, C. A., Selective Weighing of Individual Microparticles Using a Hybrid Micromanipulator-Nanomechanical Resonator System; *JSEN Aug. 2013 2857-2862*
- Chan, C. C.**, see Li, T., *JSEN June 2013 2214-2216*
- Chan, C. C.**, see Wang, J., *JSEN May 2013 1721-1724*
- Chan, C.-F.**, see Huang, C.-H., *JSEN June 2013 2459-2465*
- Chan, G.**, see Sun, X., *JSEN Nov. 2013 4527-4533*
- Chan, H. K.**, see Nagareddy, V. K., *JSEN Aug. 2013 2810-2817*
- Chan, H. P.**, see Ho, W. F., *JSEN July 2013 2521-2522*
- Chan, J. C. C.**, see Qi, F., *JSEN Sept. 2013 3468-3471*
- Chan, W. W.**, see Paprotny, I., *JSEN Jan. 2013 190-201*
- Chandra, K. P. B.**, Gu, D.-W., and Postlethwaite, I., Square Root Cubature Information Filter; *JSEN Feb. 2013 750-758*
- Chang, C.-F.**, see Hsu, C.-S., *JSEN May 2013 1787-1793*
- Chang, J.**, see Wang, Z. L., *JSEN Nov. 2013 4271-4278*
- Chang, S.**, see Kim, H., *JSEN June 2013 2084-2093*
- Chang, S. J.**, see Huang, Z.-D., *JSEN Sept. 2013 3462-3467*
- Chang, S.-J.**, see Wu, Y. L., *JSEN June 2013 2368-2373*
- Chang, S.-J.**, see Huang, Z.-D., *JSEN April 2013 1187-1191*
- Chang, S.-J.**, see Chen, T.-P., *JSEN June 2013 2115-2119*
- Chang, S.-J.**, see Tsai, T.-Y., *JSEN Dec. 2013 4891-4896*
- Chang, S.-J.**, see Lin, Z.-D., *JSEN June 2013 2423-2427*
- Chang, W.**, see Lee, H., *JSEN Sept. 2013 3219-3225*
- Chang, Y.-J.**, see Hsia, S.-C., *JSEN April 2013 1281-1287*
- Chang, Z.**, see Jiang, J., *JSEN May 2013 1921-1930*
- Chao, Z.**, see Jiang, J., *JSEN May 2013 1921-1930*
- Charlebois, M.**, Paquet, A., Verret, L. S., Boissinot, K., Boissinot, M., Bergeron, M. G., and Allen, C. N., Differentiation Between Analyte Adsorption and Homogenous Index Sensing in WGM Biodetection; *JSEN Jan. 2013 229-233*
- Chatterjee, B.**, see Dalai, S., *JSEN Feb. 2013 563-573*
- Chaubey, S.**, see Kher, S., *JSEN Nov. 2013 4482-4486*
- Chaudhuri, C. R.**, see Samanta, N., *JSEN Dec. 2013 4716-4724*
- Che, D.-C.**, Shimouchi, A., Mizukami, T., Nose, K., Seiyama, A., and Kasai, T., Emanation of Hydroxyl Radicals From Human Skin; *JSEN April 2013 1223-1227*
- Chen, B.**, Liu, C., Ota, M., and Hayashi, K., Terpene Detection Based on Localized Surface Plasma Resonance of Thiolate-Modified Au Nanoparticles; *JSEN April 2013 1307-1314*
- Chen, B.**, Liu, C., Watanabe, M., and Hayashi, K., Layer-by-Layer Structured AuNP Sensors for Terpene Vapor Detection; *JSEN Nov. 2013 4212-4219*
- Chen, C.**, see Zhao, Q., *JSEN Oct. 2013 3575-3584*
- Chen, C.**, Tsow, F., Campbell, K. D., Iglesias, R., Forzani, E., and Tao, N., A Wireless Hybrid Chemical Sensor for Detection of Environmental Volatile Organic Compounds; *JSEN May 2013 1748-1755*
- Chen, C.-C.**, see Hsu, C.-S., *JSEN May 2013 1787-1793*
- Chen, C.-C.**, see Chou, J.-C., *JSEN April 2013 1363-1370*
- Chen, C.-L.**, see Wu, M.-F., *JSEN Nov. 2013 4413-4422*
- Chen, C.-L.**, see Liu, Y., *JSEN Jan. 2013 202-210*
- Chen, C.-P.**, see Jiang, J.-A., *JSEN Oct. 2013 3754-3766*
- Chen, D.**, Wang, J., and Xu, Y., Highly Sensitive Lateral Field Excited Piezoelectric Film Acoustic Enzyme Biosensor; *JSEN June 2013 2217-2222*
- Chen, D.**, see Wang, J., *JSEN May 2013 1721-1724*
- Chen, D.-Y.**, and Huang, P.-C., Visual-Based Human Crowds Behavior Analysis Based on Graph Modeling and Matching; *JSEN June 2013 2129-2138*
- Chen, G.**, see Yu, J., *JSEN May 2013 1534-1540*
- Chen, H.**, see Liu, X., *JSEN May 2013 1541-1548*
- Chen, H.**, Xi, N., Song, B., Chen, L., Zhao, J., Lai, K. W. C., and Yang, R., Infrared Camera Using a Single Nano-Photodetector; *JSEN March 2013 949-958*
- Chen, H.-H.**, see Shrestha, P. L., *JSEN Oct. 2013 3616-3624*
- Chen, H.-I.**, see Hsu, C.-S., *JSEN May 2013 1787-1793*
- Chen, J.**, Yi, C., and Wen, Z., Systematic Underestimation of MODIS Global Chlorophyll-a Concentration Estimation Algorithm Associating With Scale Effect; *JSEN May 2013 1656-1661*
- Chen, J.**, Zhang, L., and Kuo, Y., Coverage-Enhancing Algorithm Based on Overlap-Sense Ratio in Wireless Multimedia Sensor Networks; *JSEN June 2013 2077-2083*
- Chen, J.**, see Jiang, J.-J., *JSEN Aug. 2013 3136-3143*
- Chen, J.**, see Zhang, Z., *JSEN June 2013 2109-2114*
- Chen, J.**, see Jiang, J., *JSEN May 2013 1921-1930*
- Chen, J.**, Zhou, J., Zhang, Q., Zhang, H., and Chen, M.-Y., All-Fiber Modal Interferometer Based on a Joint-Taper-Joint Fiber Structure for Refractive Index Sensing With High Sensitivity; *JSEN July 2013 2780-2785*
- Chen, J.**, see Qi, X., *JSEN Nov. 2013 4279-4286*
- Chen, J.**, see Zhang, S., *JSEN Nov. 2013 4402-4412*
- Chen, J.**, see Zhou, J., *JSEN July 2013 2750-2756*
- Chen, K. C.**, see Wu, Y. L., *JSEN June 2013 2368-2373*
- Chen, L.**, see Chen, H., *JSEN March 2013 949-958*
- Chen, M.-Y.**, see Chen, J., *JSEN July 2013 2780-2785*
- Chen, N.-K.**, Feng, Z.-Z., Wang, J.-J., Liaw, S.-K., and Chui, H.-C., Interferometric Interrogation of the Inclination and Displacement of Tapered Fiber Mach-Zehnder Interferometers; *JSEN Sept. 2013 3437-3441*
- Chen, P.-T.**, see Jiang, J.-A., *JSEN Oct. 2013 3754-3766*
- Chen, Q.**, see Xie, L., *JSEN Oct. 2013 3948-3956*
- Chen, R.**, Song, J., Lin, T.-Y., Aizin, G. R., Kawano, Y., Aoki, N., Ochiai, Y., Whiteside, V. R., McCombe, B. D., Thomas, D., Einhorn, M., Reno, J. L., Strasser, G., and Bird, J. P., Terahertz Detection With Nanoscale Semiconductor Rectifiers; *JSEN Jan. 2013 24-30*
- Chen, R.**, see Wang, Y., *JSEN Oct. 2013 3527-3536*
- Chen, S.**, see Qian, X., *JSEN Dec. 2013 4931-4939*
- Chen, T.-P.**, Young, S.-J., Chang, S.-J., Hsiao, C.-H., Ji, L.-W., Hsu, Y.-J., and Wu, S.-L., Low-Frequency Noise Characteristics of ZnO Nanorods Schottky Barrier Photodetectors; *JSEN June 2013 2115-2119*
- Chen, W.**, see Shui, A., *JSEN Nov. 2013 4287-4295*
- Chen, W.-J.**, see Liao, S.-H., *JSEN May 2013 1401-1402*
- Chen, X.**, see Tang, Y.-Z., *JSEN Sept. 2013 3270-3275*
- Chen, X.**, see Li, X., *JSEN Dec. 2013 4749-4756*

- Chen, X.**, see Li, X., *JSEN Dec. 2013 4749-4756*
- Chen, X.**, see Wu, Z., *JSEN Feb. 2013 777-782*
- Chen, X.**, and Yu, S., Frequency Response Improvement for Inertial Magnetolectric Velocity Sensor Using Frequency-Selected Compensation Network; *JSEN Nov. 2013 4141-4146*
- Chen, Y.**, Mun, S. C., and Kim, J., A Wide Range Conductometric pH Sensor Made With Titanium Dioxide/Multiwall Carbon Nanotube/Cellulose Hybrid Nanocomposite; *JSEN Nov. 2013 4157-4162*
- Chen, Y.**, Jaeger, R. C., and Suhling, J. C., CMOS Sensor Arrays for High Resolution Die Stress Mapping in Packaged Integrated Circuits; *JSEN June 2013 2066-2076*
- Chen, Y.**, see Ding, G., *JSEN Nov. 2013 4247-4255*
- Chen, Y.**, see Le, A., *JSEN Oct. 2013 3685-3692*
- Chen, Y.**, see Ran, Z., *JSEN May 2013 1988-1991*
- Chen, Y.-C.**, and Wen, C.-Y., Distributed Clustering With Directional Antennas for Wireless Sensor Networks; *JSEN June 2013 2166-2180*
- Chen, Y.-F.**, see Jiang, J.-A., *JSEN Oct. 2013 3754-3766*
- Chen, Y.-J.**, see Liu, H.-C., *JSEN Dec. 2013 4992*
- Chen, Y.-J.**, see Liu, H.-C., *JSEN July 2013 2737-2741*
- Chen, Y.-P.**, see Liu, Y., *JSEN July 2013 2699-2704*
- Chen, Y.-S.**, and Lin, Y.-W., Mobicast Routing Protocol for Underwater Sensor Networks; *JSEN Feb. 2013 737-749*
- Chen, Y.-Y.**, see Hsu, C.-C., *JSEN Aug. 2013 2962-2972*
- Chen, Z.-P.**, see Wang, S. S., *JSEN Feb. 2013 728-736*
- Cheng, C.-T.**, and Tse, C. K., A Delay-Aware Network Structure for Wireless Sensor Networks With Consecutive Data Collection Processes; *JSEN June 2013 2413-2422*
- Cheng, C.-T.**, Leung, H., and Maupin, P., A Delay-Aware Network Structure for Wireless Sensor Networks With In-Network Data Fusion; *JSEN May 2013 1622-1631*
- Cheng, E. M.**, see You, K. Y., *JSEN July 2013 2563-2570*
- Cheng, G.**, see Dahiya, R. S., *JSEN Nov. 2013 4121-4138*
- Cheng, J.**, Amft, O., Bahle, G., and Lukowicz, P., Designing Sensitive Wearable Capacitive Sensors for Activity Recognition; *JSEN Oct. 2013 3935-3947*
- Cheng, L.**, see Wang, C., *JSEN Aug. 2013 3012-3013*
- Cheng, P.**, see Shahzad, K., *JSEN Feb. 2013 670-682*
- Cheng, T.-Y.**, see Chou, J.-C., *JSEN Nov. 2013 4180-4187*
- Cheng, Y.**, see Bai, L., *JSEN June 2013 2094-2101*
- Cheong, Y. K.**, see Yang, H., *JSEN July 2013 2581-2585*
- Cheong, Y.-K.**, Ng, X.-W., and Chung, W.-Y., Hazardless Biomedical Sensing Data Transmission Using VLC; *JSEN Sept. 2013 3347-3348*
- Chhaniwal, V. K.**, see Anand, A., *JSEN Feb. 2013 723-727*
- Chiam, Y.-S.**, see Lim, K.-S., *JSEN May 2013 2020-2025*
- Chiang, C.-T.**, and Liou, J.-Y., Design of A CMOS Intelligent Light Sensing Chip for Automatic Brightness Tuning Applications; *JSEN Dec. 2013 4955-4961*
- Chiang, C.-T.**, Design of CMOS Monolithic Digitized Light Transducer With Calibration Technique for Ambient Light Sensor Applications; *JSEN May 2013 1931-1940*
- Chiang, J.-S.**, Hsia, C.-H., and Hsu, H.-W., A Stereo Vision-Based Self-Localization System; *JSEN May 2013 1677-1689*
- Chiang, Y.-F.**, see Fan, Y.-C., *JSEN July 2013 2586-2594*
- Chiao, J.-C.**, see Nguyen, C. M., *JSEN Oct. 2013 3857-3864*
- Chiao, J.-C.**, see Tata, U., *JSEN Feb. 2013 444-445*
- Chiao, M.**, see Nguyen, C. M., *JSEN Oct. 2013 3857-3864*
- Chiaromello, E.**, see Tognola, G., *JSEN Sept. 2013 3249-3254*
- Chiba, H.**, see Takeda, S., *JSEN Sept. 2013 3449-3453*
- Chikermane, S.**, see Scott, R. H., *JSEN July 2013 2555-2562*
- Chiodoni, A.**, see Canavese, G., *JSEN June 2013 2237-2244*
- Chiou, J.-C.**, Tsai, S.-W., and Lin, C.-Y., Liquid Phase Deposition Based SnO₂ Gas Sensor Integrated With TaN Heater on a Micro-Hotplate; *JSEN June 2013 2466-2473*
- Chitteboyina, M. M.**, see Ahmed, M., *JSEN Oct. 2013 4081-4089*
- Chiu, C.-J.**, see Huang, Z.-D., *JSEN Sept. 2013 3462-3467*
- Chiu, C.-J.**, see Huang, Z.-D., *JSEN April 2013 1187-1191*
- Chiu, N.-F.**, Lee, W.-C., and Jiang, T.-S., Constructing a Novel Asymmetric Dielectric Structure Toward the Realization of High-Performance Surface Plasmon Resonance Biosensors; *JSEN Sept. 2013 3483-3489*
- Chiu, Z.-W.**, see Ji, L.-W., *JSEN Dec. 2013 4940-4943*
- Choi, L.-H.**, Wu, C., Lu, C., and Tam, H.-Y., A Highly Sensitive and Low-Cost Sagnac Loop Based Pressure Sensor; *JSEN Aug. 2013 3073-3078*
- Choi, J. K.**, Mitin, V., Ramaswamy, R., Pogrebnyak, V. A., Pakmehr, M. P., Muravjov, A., Shur, M. S., Gill, J., Mehdi, I., Karasik, B. S., and Sergeev, A. V., THz Hot-Electron Micro-Bolometer Based on Low-Mobility 2-DEG in GaN Heterostructure; *JSEN Jan. 2013 80-88*
- Choi, J.-H.**, Jung, M.-S., and Yeom, K.-W., A Design and Assessment of a Direction Finding Proximity Fuze Sensor; *JSEN Aug. 2013 3079-3089*
- Choi, S.-L.**, see Jeong, G.-M., *JSEN May 2013 1575-1581*
- Chong, S. H. C.**, see You, K. Y., *JSEN July 2013 2563-2570*
- Chong, W. Y.**, see Yang, H., *JSEN July 2013 2581-2585*
- Chong, W.-Y.**, see Lim, K.-S., *JSEN May 2013 2020-2025*
- Chossat, J.-B.**, Park, Y.-L., Wood, R. J., and Duchaine, V., A Soft Strain Sensor Based on Ionic and Metal Liquids; *JSEN Sept. 2013 3405-3414*
- Chou, C.**, see Huang, C.-H., *JSEN June 2013 2459-2465*
- Chou, C. T.**, see Shen, Y., *JSEN June 2013 2120-2128*
- Chou, C.-F.**, see Hsu, C.-C., *JSEN Aug. 2013 2962-2972*
- Chou, C.-H.**, see Tian, W.-C., *JSEN May 2013 1725-1729*
- Chou, H.-T.**, see Chou, J.-C., *JSEN Nov. 2013 4180-4187*
- Chou, J.-C.**, Cheng, T.-Y., Ye, G.-C., Liao, Y.-H., Yang, S.-Y., and Chou, H.-T., Fabrication and Investigation of Arrayed Glucose Biosensor Based on Microfluidic Framework; *JSEN Nov. 2013 4180-4187*
- Chou, J.-C.**, Wu, D.-G., Tseng, S.-C., Chen, C.-C., and Ye, G.-C., Application of Microfluidic Device for Lactic Biosensor; *JSEN April 2013 1363-1370*
- Chou, P.-C.**, see Hsu, C.-S., *JSEN May 2013 1787-1793*
- Choudhury, A.**, see Husain, I., *JSEN Sept. 2013 3345-3346*
- Choudhury, A.**, see Nath, P., *JSEN April 2013 1148-1152*
- Chu, A.**, see Tan, Y., *JSEN May 2013 1972-1978*
- Chu, J.**, see Wang, J., *JSEN May 2013 1721-1724*
- Chuang, C.-L.**, see Jiang, J.-A., *JSEN Oct. 2013 3754-3766*
- Chuang, K.-C.**, Lin, S.-H., Ma, C.-C., and Wu, R.-H., Application of a Fiber Bragg Grating-Based Sensing System on Investigating Dynamic Behaviors of a Cantilever Beam Under Impact or Moving Mass Loadings; *JSEN Jan. 2013 389-399*
- Chuang, Y.-R.**, see Tseng, H.-W., *JSEN Aug. 2013 3124-3135*
- Chui, H.-C.**, see Chen, N.-K., *JSEN Sept. 2013 3437-3441*
- Chung, W.-Y.**, see Cheong, Y.-K., *JSEN Sept. 2013 3347-3348*
- Chung, W.-Y.**, see Jung, S.-J., *JSEN Dec. 2013 4824-4830*
- Chung, W.-Y.**, see Jung, S.-J., *JSEN May 2013 1419-1424*
- Chuo, Y.**, Hohertz, D., Landrock, C., Omrane, B., Kavanagh, K. L., and Kaminska, B., Large-Area Low-Cost Flexible Plastic Nanohole Arrays for Integrated Bio-Chemical Sensing; *JSEN Oct. 2013 3982-3990*
- Ci, H.**, see Yang, H., *JSEN Feb. 2013 556-562*
- Ciegis, R.**, see Kancleris, Z., *JSEN April 2013 1143-1147*
- Cinar, K.**, Bozaci, H. M., and Altan, H., Characterization of a Glow Discharge Detector With Terahertz Time Domain Spectroscopy; *JSEN July 2013 2643-2647*
- Cirmirakis, D.**, Demosthenous, A., Saeidi, N., and Donaldson, N., Humidity-to-Frequency Sensor in CMOS Technology With Wireless Readout; *JSEN March 2013 900-908*
- Cleij, T. J.**, see Broeders, J., *JSEN July 2013 2659-2665*
- Cleland, T. A.**, see Johnson, B., *JSEN Sept. 2013 3211-3218*
- Coillot, C.**, see Mohamadabadi, K., *JSEN April 2013 1355-1362*
- Coillot, C.**, see Rhouni, A., *JSEN Jan. 2013 159-166*
- Coillot, C.**, see Mohamadabadi, K., *JSEN Feb. 2013 772-776*
- Colpitts, B. G.**, see Farahani, M. A., *JSEN Dec. 2013 4589-4598*
- Colpitts, B. G.**, see Farahani, M. A., *JSEN Jan. 2013 263-272*
- Comparelli, R.**, see Placido, T., *JSEN Aug. 2013 2834-2841*
- Congedo, F.**, Monti, G., Tarricone, L., and Bella, V., A 2.45-GHz Vivaldi Rectenna for the Remote Activation of an End Device Radio Node; *JSEN Sept. 2013 3454-3461*
- Contaret, T.**, Seguin, J.-L., Menini, P., and Aguir, K., Physical-Based Characterization of Noise Responses in Metal-Oxide Gas Sensors; *JSEN March 2013 980-986*
- Conversano, F.**, see Menichetti, L., *JSEN June 2013 2341-2347*
- Conversano, F.**, see Casciaro, S., *JSEN June 2013 2305-2312*
- Conversano, F.**, see Lay-Ekuakille, A., *JSEN Sept. 2013 3331-3340*
- Cook, K.**, see Perry, M., *JSEN Feb. 2013 816-823*
- Coquillat, D.**, see Watanabe, T., *JSEN Jan. 2013 89-99*
- Corbin, T.**, see Maschal, R. A., *JSEN Jan. 2013 371-378*
- Cornell, B.**, see Abolfath-Beygi, M., *JSEN April 2013 1265-1273*
- Corradi, A.**, see Bellavista, P., *JSEN Oct. 2013 3558-3567*
- Corredera, P.**, see Filigrano, M. L., *JSEN Dec. 2013 4808-4816*
- Correia, C.**, see Pereira, T., *JSEN May 2013 1434-1441*
- Correia, J. H.**, see Peixoto, A. C. M., *JSEN Sept. 2013 3319-3324*
- Cosseddu, P.**, see Loi, A., *JSEN Dec. 2013 4764-4772*
- Cosseddu, P.**, see Seminara, L., *JSEN Oct. 2013 4022-4029*
- Coste, K.**, see Liebe, C. C., *JSEN Jan. 2013 234-244*

- Cota-Ruiz, J.**, Rosiles, J.-G., Rivas-Perea, P., and Sifuentes, E., A Distributed Localization Algorithm for Wireless Sensor Networks Based on the Solutions of Spatially-Constrained Local Problems; *JSEN June 2013 2181-2191*
- Cottini, N.**, Gottardi, M., Massari, N., and Passerone, R., A Bio-Inspired APS for Selective Visual Attention; *JSEN Sept. 2013 3341-3342*
- Cranch, G. A.**, Miller, G. A., Askins, C. G., Bartolo, R. E., and Kirkendall, C. K., Remotely-Interrogated Three-Axis Fiber Laser Magnetometer; *JSEN March 2013 890-899*
- Cremonesi, A. O.**, Ferreira, E. C., Filho, A. J. B., and Dias, J. A. S., A Fiber Bragg Grating RMS Current Transducer Based on the Magnetostriction Effect Using a Terfenol-D Toroidal-Shaped Modulator; *JSEN Feb. 2013 683-690*
- Cretin, B.**, see Le Rouzic, J., *JSEN April 2013 1340-1346*
- Croize, L.**, see Mouret, G., *JSEN Jan. 2013 133-138*
- Crouse, D. T.**, see Mandel, I., *JSEN Feb. 2013 618-625*
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- Crowcroft, J.**, see Liu, C. H., *JSEN Oct. 2013 3742-3753*
- Cruz-Martin, A.**, see Gago-Benitez, A., *JSEN Aug. 2013 2944-2953*
- Cui, L.**, see Li, H., *JSEN June 2013 2245-2252*
- Cui, S.**, see Zhou, Y., *JSEN Oct. 2013 3568-3574*
- Cuisset, A.**, see Mouret, G., *JSEN Jan. 2013 133-138*
- Culurciello, E.**, see Kim, D., *JSEN June 2013 2102-2108*
- Cunningham, B. T.**, see Tan, Y., *JSEN May 2013 1972-1978*
- Cunzolo, P.**, see Imperatori, G., *JSEN Aug. 2013 2954-2961*
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- Cvetkov, D.**, see Imperatori, G., *JSEN Aug. 2013 2954-2961*
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- D'Angelo, L. T.**, see Dai, H., *JSEN Sept. 2013 3193-3202*
- da Silva-Neto, J. L.**, see de Assumpcao Ribeiro, B., *JSEN April 2013 1259-1264*
- Dahiya, R. S.**, Mittendorf, P., Valle, M., Cheng, G., and Lumelsky, V. J., Directions Toward Effective Utilization of Tactile Skin: A Review; *JSEN Nov. 2013 4121-4138*
- Dahiya, R. S.**, and Gennaro, S., Bendable Ultra-Thin Chips on Flexible Foils; *JSEN Oct. 2013 4030-4037*
- Dahiya, R.S.**, see Celik-Butler, Z., *JSEN Oct. 2013 3854-3856*
- Dai, H.**, Otten, B., Mehrkens, J. H., D'Angelo, L. T., and Lueth, T. C., A Novel Glove Monitoring System Used to Quantify Neurological Symptoms During Deep-Brain Stimulation Surgery; *JSEN Sept. 2013 3193-3202*
- Dai, Y.**, see Xu, Z., *JSEN June 2013 2139-2145*
- Dailey, W. D.**, see Esmacili, M., *JSEN Sept. 2013 3293-3301*
- Dakopoulos, D.**, see Bourbakis, N., *JSEN July 2013 2535-2547*
- Dalai, S.**, Chatterjee, B., Dey, D., Chakravorti, S., and Bhattacharya, K., Rough-Set-Based Feature Selection and Classification for Power Quality Sensing Device Employing Correlation Techniques; *JSEN Feb. 2013 563-573*
- Dallil, A.**, Oussalah, M., and Ouldali, A., Sensor Fusion and Target Tracking Using Evidential Data Association; *JSEN Jan. 2013 285-293*
- Damarla, T.**, Bradley, M., Mehmood, A., and Sabatier, J. M., Classification of Animals and People Ultrasonic Signatures; *JSEN MAY 2013 1464-1472*
- Daneshmand, M.**, see Wang, C., *JSEN Oct. 2013 3505-3510*
- Danisi, A.**, see Masi, A., *JSEN March 2013 941-948*
- Danisi, A.**, Masi, A., Losito, R., and Perriard, Y., Modeling of High-Frequency Electromagnetic Effects on an Ironless Inductive Position Sensor; *JSEN Dec. 2013 4663-4670*
- Dapino, M. J.**, see Kotian, K., *JSEN Nov. 2013 4444-4451*
- Das, A.**, Gupta, M., Rajagopalan, S., and Tyagi, A. K., Selective Capacitive Sensor for Ammonia Hydroxide at Room Temperature; *JSEN July 2013 2757-2762*
- Das, R. R.**, see Sunny, *JSEN Aug. 2013 3039-3045*
- Das, R. R.**, see Sunny, *JSEN Dec. 2013 4924-4930*
- Davies, G.**, see Valavanis, A., *JSEN Jan. 2013 37-43*
- Davis, R. W.**, see Javanmard, M., *JSEN May 2013 1399-1400*
- Davydov, A. V.**, see Aluri, G. S., *JSEN May 2013 1883-1888*
- de Assumpcao Ribeiro, B.**, Werneck, M. M., and da Silva-Neto, J. L., Novel Optimization Algorithm to Demodulate a PZT-FBG Sensor in AC High Voltage Measurements; *JSEN April 2013 1259-1264*
- De Capua, C.**, see Morello, R., *JSEN Sept. 2013 3203-3210*
- De Capua, C.**, see Fabbiano, L., *JSEN Sept. 2013 3175-3181*
- de Cesare, G.**, see Caputo, D., *JSEN July 2013 2595-2602*
- De Ceuninck, W.**, see Broeders, J., *JSEN July 2013 2659-2665*
- De Marcellis, A.**, Ferri, G., Mantenuto, P., Giancaterini, L., and Cantalini, C., WO₃ Hydrogen Resistive Gas Sensor and Its Wide-Range Current-Mode Electronic Read-Out Circuit; *JSEN July 2013 2792-2798*
- De Marchi, D.**, see Menichetti, L., *JSEN June 2013 2341-2347*
- De Micheli, G.**, see Carrara, S., *JSEN March 2013 1018-1024*
- De Micheli, G.**, see Baj-Rossi, C., *JSEN Dec. 2013 4860-4865*
- de Rooij, N. F.**, see Mattana, G., *JSEN Oct. 2013 3901-3909*
- De Rossi, D.**, see Lorussi, F., *JSEN Jan. 2013 217-228*
- de Saja, J. A.**, see Apetrei, I. M., *JSEN July 2013 2548-2554*
- de Santi Peron, G.**, see Brante, G., *JSEN Nov. 2013 4375-4386*
- de Torres, H. B.**, see Rydosz, A., *JSEN May 2013 1889-1896*
- Dean, P.**, see Valavanis, A., *JSEN Jan. 2013 37-43*
- Declercq, M.**, see Silay, K. M., *JSEN Sept. 2013 3226-3235*
- Deen, M. J.**, see Campos, F. S., *JSEN May 2013 1554-1563*
- Dehollain, C.**, see Yilmaz, G., *JSEN Nov. 2013 4172-4179*
- Dehollain, C.**, see Silay, K. M., *JSEN Sept. 2013 3226-3235*
- Dekker, R.**, see van der Horst, A., *JSEN Oct. 2013 3883-3891*
- Dekker, R.**, see Mimoun, B., *JSEN Oct. 2013 3873-3882*
- Del Villar, I.**, see Sanchez, P., *JSEN April 2013 1167-1171*
- Delafeld-Butt, J.**, see Taffoni, F., *JSEN Nov. 2013 4561-4568*
- Demarchi, D.**, see Canavese, G., *JSEN June 2013 2237-2244*
- Demosthenous, A.**, see Kassanos, P., *JSEN June 2013 2229-2236*
- Demosthenous, A.**, see Cirmirakis, D., *JSEN March 2013 900-908*
- Demosthenous, A.**, Pachnis, I., Jiang, D., and Donaldson, N., An Integrated Amplifier With Passive Neutralization of Myoelectric Interference From Neural Recording Tripoles; *JSEN Sept. 2013 3236-3248*
- Demosthenous, A.**, see Saeidi, N., *JSEN Nov. 2013 4487-4495*
- Denei, S.**, see Loi, A., *JSEN Dec. 2013 4764-4772*
- Deng, Y.**, see Hu, H., *JSEN May 2013 1835-1839*
- Desai, S.**, see Tulip, F. S., *JSEN Feb. 2013 438-439*
- Dey, D.**, see Sarkar, A. R., *JSEN Dec. 2013 4621-4626*
- Dey, D.**, see Dalai, S., *JSEN Feb. 2013 563-573*
- Dias, J. A. S.**, see Cremonesi, A. O., *JSEN Feb. 2013 683-690*
- Dias, N. S.**, see Peixoto, A. C. M., *JSEN Sept. 2013 3319-3324*
- Ding, G.**, see Liu, C. H., *JSEN Oct. 2013 3742-3753*
- Ding, G.**, Wang, J., Wu, Q., Song, F., and Chen, Y., Spectrum Sensing in Opportunity-Heterogeneous Cognitive Sensor Networks: How to Cooperate?; *JSEN Nov. 2013 4247-4255*
- Ding, M.**, see Wang, P., *JSEN Jan. 2013 180-185*
- Dini, D. C.**, see Rosolem, J. B., *JSEN Nov. 2013 4113-4120*
- Dixit, R.**, Shen, L., Ratterman, M., Papautsky, I., and Klotzkin, D., Simultaneous Single Detector Measurement of Multiple Fluorescent Sources; *JSEN May 2013 1965-1971*
- Djuric, P. M.**, see Arias-de-Reyna, E., *JSEN May 2013 1979-1987*
- Djuric, P. M.**, see Athalye, A., *JSEN Feb. 2013 528-537*
- Dobie, G.**, see Macleod, C. N., *JSEN Nov. 2013 4320-4328*
- Doering, L.**, see Peiner, E., *JSEN Feb. 2013 701-708*
- Dogiamis, G. C.**, Hosticka, B. J., and Grabmaier, A., Investigations on an Ultra-Thin Bendable Monolithic Si CMOS Image Sensor; *JSEN Oct. 2013 3892-3900*
- Dohler, M.**, see Wang, C., *JSEN Oct. 2013 3505-3510*
- Dohler, M.**, see Palattella, M. R., *JSEN Oct. 2013 3655-3666*
- Dokmeci, M. R.**, see Liu, Y., *JSEN Jan. 2013 202-210*
- Dolabdjian, C. P.**, see Dufay, B., *JSEN Jan. 2013 379-388*
- Dolci, L. S.**, see Caputo, D., *JSEN July 2013 2595-2602*
- Donaldson, N.**, see Demosthenous, A., *JSEN Sept. 2013 3236-3248*
- Donaldson, N.**, see Cirmirakis, D., *JSEN March 2013 900-908*
- Donaldson, N.**, see Saeidi, N., *JSEN Nov. 2013 4487-4495*
- Dong, H.**, Lin, H., and Tang, X., Atomic-Signal-Based Zero-Field Finding Technique for Unshielded Atomic Vector Magnetometer; *JSEN Jan. 2013 186-189*
- Dong, H.**, see Zhang, G., *JSEN June 2013 2437-2441*
- Dong, H.**, see Gu, H., *JSEN Feb. 2013 864-869*
- Dong, X.**, see Li, T., *JSEN June 2013 2214-2216*
- Dong, X.**, see Qi, F., *JSEN Sept. 2013 3468-3471*
- Dong, X.**, see Wang, J., *JSEN May 2013 1721-1724*
- Dorneich, A. D.**, see Fericean, S., *JSEN Dec. 2013 4682-4689*
- Dorrington, A. A.**, see Drayton, B. M. M., *JSEN Sept. 2013 3386-3396*
- Dougal, R. A.**, see Alam, M. N., *JSEN Jan. 2013 339-347*
- Drayton, B. M. M.**, Carnegie, D. A., and Dorrington, A. A., Phase Algorithms for Reducing Axial Motion and Linearity Error in Indirect Time of Flight Cameras; *JSEN Sept. 2013 3386-3396*
- Drazen, J. C.**, see Hafner, N., *JSEN Jan. 2013 408-414*

- Du, J.**, Wang, K., Liu, H., and Guo, D., Maximizing the Lifetime of k -Discrete Barrier Coverage Using Mobile Sensors; *JSEN Dec. 2013 4690-4701*
- Du, L.**, Wang, B., Li, Y., and Liu, H., Robust Classification Scheme for Airplane Targets With Low Resolution Radar Based on EMD-CLEAN Feature Extraction Method; *JSEN Dec. 2013 4648-4662*
- Du, X.**, see Yao, X., *JSEN Oct. 2013 3693-3701*
- Du, Y.**, see Sun, H., *JSEN May 2013 2039-2044*
- Du, Y.**, see Rong, Q., *JSEN Nov. 2013 4356-4360*
- Duan, F.**, see Jiang, J., *JSEN May 2013 1921-1930*
- Duan, F.-J.**, see Jiang, J.-J., *JSEN Aug. 2013 3136-3143*
- Dubey, A. K.**, see Jaffery, Z. A., *JSEN April 2013 1236-1244*
- Duchaine, V.**, see Chossat, J.-B., *JSEN Sept. 2013 3405-3414*
- Duchateau, S.**, see Broeders, J., *JSEN July 2013 2659-2665*
- Dudus, A.**, Blue, R., and Uttamchandani, D., Comparative Study of Microfiber and Side-Polished Optical Fiber Sensors for Refractometry in Microfluidics; *JSEN May 2013 1594-1601*
- Dufay, B.**, Saez, S., Dolabdjian, C. P., Yelon, A., and Menard, D., Characterization of an Optimized Off-Diagonal GMI-Based Magnetometer; *JSEN Jan. 2013 379-388*
- Durelli, A. S.**, see Rosolem, J. B., *JSEN Nov. 2013 4113-4120*
- Dutta, M.**, see Breneman, K. L., *JSEN May 2013 1783-1786*
- Dutta, M.**, see Wu, T.-C., *JSEN May 2013 1549-1553*
- Dutta, R.**, and Morshed, A., Performance Evaluation of South Esk Hydrological Sensor Web: Unsupervised Machine Learning and Semantic Linked Data Approach; *JSEN Oct. 2013 3806-3815*
- Dutta, R.**, and Terhorst, A., Adaptive Neuro-Fuzzy Inference System-Based Remote Bulk Soil Moisture Estimation: Using CosmOz Cosmic Ray Sensor; *JSEN June 2013 2374-2381*
- Dutta, R.**, Novel Wavelet-mFCM Algorithm for Environmental Sensor Drift Correction; *JSEN July 2013 2519-2520*
- Duvillaret, L.**, see Ayde, R., *JSEN April 2013 1274-1280*
- Duy, W. S. D.**, Hackett, B. E., Nadeau, S. C., Alcott, S., Mlsna, T. E., Neivandt, D. J., and Vetelino, J. F., A Lateral-Field-Excited Acoustic Wave Peroxide Based Explosive Sensor; *JSEN Dec. 2013 4780-4785*
- Dwivedi, R.**, see Sunny, *JSEN Aug. 2013 3039-3045*
- Dwivedi, R.**, see Sunny, *JSEN Dec. 2013 4924-4930*
- Dysko, A.**, see Orr, P., *JSEN June 2013 2053-2054*
- Dziuda, L.**, Krej, M., and Skibniewski, F. W., Fiber Bragg Grating Strain Sensor Incorporated to Monitor Patient Vital Signs During MRI; *JSEN Dec. 2013 4986-4991*

E

- Ebeoglu, M. A.**, see Saraoglu, H. M., *JSEN Nov. 2013 4229-4235*
- Ebert, H.**, see Schulz, V., *JSEN March 2013 994-1002*
- Ebrahimzadeh, A.**, see Najimi, M., *JSEN May 2013 1610-1621*
- Eddy, C. R.**, see Nagareddy, V. K., *JSEN Aug. 2013 2810-2817*
- Efthymiou, S.**, and Ozanyan, K. B., Pulse Detection by Gated Synchronous Demodulation; *JSEN Sept. 2013 3349-3360*
- Einat, M.**, see Kapilevich, B., *JSEN Nov. 2013 4224-4228*
- Einhorn, M.**, see Chen, R., *JSEN Jan. 2013 24-30*
- El-Hajj, W.**, see Zahidi, S. Z. H., *JSEN June 2013 2400-2412*
- Eliet, S.**, see Mouret, G., *JSEN Jan. 2013 133-138*
- Elmazria, O.**, see Blampain, E., *JSEN Dec. 2013 4607-4612*
- Elmazria, O.**, see Legrani, O., *JSEN Feb. 2013 487-491*
- Emadi, T. A.**, Shafai, C., Thomson, D. J., Freund, M. S., White, N. D. G., and Jayas, D. S., Polymer-Based Chemicapacitor Sensor for 1-Octanol and Relative Humidity Detections at Different Temperatures and Frequencies; *JSEN Feb. 2013 519-527*
- Emms, G. W.**, see Bogosanic, M., *JSEN Jan. 2013 306-313*
- Engel, T.**, see Palattella, M. R., *JSEN Oct. 2013 3655-3666*
- Erdene, N.**, see Jeong, H.-H., *JSEN Jan. 2013 351-358*
- Erickson, T. A.**, and Lear, K. L., Optimization of the Local Evanescent Array-Coupled Optoelectronic Sensing Chip for Enhanced, Portable, Real-Time Sensing; *JSEN May 2013 1905-1913*
- Esashi, M.**, see Fang, W., *JSEN Aug. 2013 2809*
- Escarra, M. D.**, Le, L. T., Urban, N. M., Oppenheimer, M., and Gmachl, C. F., Quantum Cascade Laser-Based Sensing for Carbon Sequestration Leakage Monitoring; *JSEN June 2013 2348-2356*
- Esmaili, M.**, Guy, S., Dailey, W. D., Burdet, E., and Campolo, D., Subject-Specific Wrist Model Calibration and Application to Ergonomic Design of Exoskeletons; *JSEN Sept. 2013 3293-3301*
- Eteshola, E.**, see Tulip, F. S., *JSEN Feb. 2013 438-439*

- Expert, F.**, see Roubieu, F. L., *JSEN March 2013 1025-1035*

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- Fabbiano, L.**, Vacca, G., Morello, R., and De Capua, C., An Innovative Strategy for Correctly Interpreting Simultaneous Acquisition of EEG Signals and fMRI Images; *JSEN Sept. 2013 3175-3181*
- Fabbiano, L.**, see Morello, R., *JSEN Sept. 2013 3203-3210*
- Fadlullah, Z. M.**, see Kawamoto, Y., *JSEN Oct. 2013 3645-3654*
- Fair, R. B.**, see Royal, M. W., *JSEN Dec. 2013 4733-4742*
- Fakhrizadeh, A.**, see Roozbahani, H., *JSEN Nov. 2013 4432-4443*
- Fallahi, A.**, see Najimi, M., *JSEN May 2013 1610-1621*
- Fan, J.**, see Liu, C. H., *JSEN Oct. 2013 3742-3753*
- Fan, S.**, see Hu, C., *JSEN Aug. 2013 3032-3038*
- Fan, S.**, see Zhang, T., *JSEN Feb. 2013 510-518*
- Fan, Y.-C.**, Chiang, Y.-F., and Hsieh, Y.-T., Constant-Hue-Based Color Filter Array Demosaicking Sensor for Digital Still Camera Implementation; *JSEN July 2013 2586-2594*
- Fang, B.**, see Yang, W., *JSEN June 2013 2313-2321*
- Fang, Q.**, and Huang, S. X., UKF for Integrated Vision and Inertial Sensors Based on Three-View Geometry; *JSEN July 2013 2711-2719*
- Fang, T.-H.**, see Ji, L.-W., *JSEN Dec. 2013 4940-4943*
- Fang, W.**, Esashi, M., Ghodssi, R., and Brugger, J., Guest Editorial—Special Issue on Selected Papers From the 11th IEEE Sensors Conference 2012; *JSEN Aug. 2013 2809*
- Fanning, J.**, see Maschal, R. A., *JSEN Jan. 2013 371-378*
- Farahani, M. A.**, Castillo-Guerra, E., and Colpitts, B. G., A Detailed Evaluation of the Correlation-Based Method Used for Estimation of the Brillouin Frequency Shift in BOTDA Sensors; *JSEN Dec. 2013 4589-4598*
- Farahani, M. A.**, Castillo-Guerra, E., and Colpitts, B. G., Acceleration of Measurements in BOTDA Sensors Using Adaptive Linear Prediction; *JSEN Jan. 2013 263-272*
- Faramarzpour, N.**, see Campos, F. S., *JSEN May 2013 1554-1563*
- Farrah, M.**, and Al-Shamma'a, A., Behavior of Low Frequency Signal Through Stainless Steel Enclosures in Noncontact Safety Switch Application; *JSEN Jan. 2013 299-305*
- Farrell, G.**, see Mathew, J., *JSEN May 2013 1632-1636*
- Farrell, G.**, see Wang, P., *JSEN Jan. 2013 180-185*
- Farrokh-Baroughi, M.**, see Yao, R., *JSEN Oct. 2013 3637-3644*
- Fateev, D.**, see Watanabe, T., *JSEN Jan. 2013 89-99*
- Fathima, S. Y.**, see Karthik, G. V. S., *JSEN Sept. 2013 3276-3283*
- Fedder, G. K.**, see Tang, Y., *JSEN Aug. 2013 2984-2992*
- Fekete, Z.**, see Marton, G., *JSEN Sept. 2013 3263-3269*
- Feldman, J.**, see Beyaz, M. I., *JSEN Aug. 2013 2937-2943*
- Felix, S.**, and Horowitz, R., Integration of Thin Film Strain Sensors Into Hard Drives for Active Feedback Vibration Suppression; *JSEN May 2013 1708-1715*
- Fen, Y. W.**, and Yunus, W. M. M., Utilization of Chitosan-Based Sensor Thin Films for the Detection of Lead Ion by Surface Plasmon Resonance Optical Sensor; *JSEN May 2013 1413-1418*
- Feng, D.**, see Rong, Q., *JSEN Nov. 2013 4356-4360*
- Feng, D.**, see Sun, H., *JSEN May 2013 2039-2044*
- Feng, G.**, see Yang, H., *JSEN Feb. 2013 556-562*
- Feng, G.**, see Cao, B., *JSEN Oct. 2013 3585-3595*
- Feng, M. Q.**, see Fukuda, Y., *JSEN Dec. 2013 4725-4732*
- Feng, Y.**, see Xie, L., *JSEN Oct. 2013 3948-3956*
- Feng, Z.**, see Rong, Q., *JSEN May 2013 1473-1477*
- Feng, Z.**, see Rong, Q., *JSEN Nov. 2013 4356-4360*
- Feng, Z.**, see Hu, C., *JSEN Nov. 2013 4569-4575*
- Feng, Z.**, see Zhang, J., *JSEN June 2013 2061-2065*
- Feng, Z.**, see Wang, R., *JSEN May 2013 1766-1770*
- Feng, Z.**, see Sun, H., *JSEN May 2013 2039-2044*
- Feng, Z.-Z.**, see Chen, N.-K., *JSEN Sept. 2013 3437-3441*
- Fericean, S.**, Hiller-Brod, A., Dorneich, A. D., and Fritton, M., Microwave Displacement Sensor for Hydraulic Devices; *JSEN Dec. 2013 4682-4689*
- Fernandez-Madriral, J.-A.**, see Gago-Benitez, A., *JSEN Aug. 2013 2944-2953*
- Ferrance, J.**, see Globus, T., *JSEN Jan. 2013 72-79*
- Ferrari, G.**, see Martalo, M., *JSEN Feb. 2013 501-509*
- Ferreira, E. C.**, see Cremonesi, A. O., *JSEN Feb. 2013 683-690*
- Ferri, G.**, see De Marcellis, A., *JSEN July 2013 2792-2798*
- Ferrigno, L.**, see Bernieri, A., *JSEN Nov. 2013 4513-4521*
- Fiath, R.**, see Marton, G., *JSEN Sept. 2013 3263-3269*
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- Filho, A. J. B.**, see Cremonesi, A. O., *JSEN Feb. 2013 683-690*
- Filograno, M. L.**, Corredera, P., Rodriguez-Plaza, M., Andres-Alguacil, A., and Gonzalez-Herraez, M., Wheel Flat Detection in High-Speed Railway Systems Using Fiber Bragg Gratings; *JSEN Dec. 2013 4808-4816*
- Flori, A.**, see Menichetti, L., *JSEN June 2013 2341-2347*
- Florida, C.**, see Rosolem, J. B., *JSEN Nov. 2013 4113-4120*
- Fontenot, R. S.**, see Kobakhidze, L., *JSEN Aug. 2013 3053-3059*
- Fooladgar, F.**, Samavi, S., Sorousmehr, S. M. R., and Shirani, S., Geometrical Analysis of Localization Error in Stereo Vision Systems; *JSEN Nov. 2013 4236-4246*
- Foresta, F. L.**, see Morabito, F. C., *JSEN Sept. 2013 3255-3262*
- Foresta, F. L.**, see Labate, D., *JSEN Sept. 2013 3284-3292*
- Foresta, F. L.**, see Labate, D., *JSEN July 2013 2666-2674*
- Formica, D.**, see Taffoni, F., *JSEN Nov. 2013 4561-4568*
- Forzani, E.**, see Chen, C., *JSEN May 2013 1748-1755*
- Foschini, L.**, see Bellavista, P., *JSEN Oct. 2013 3558-3567*
- Franchini, R.**, see Casciaro, S., *JSEN June 2013 2305-2312*
- Francomano, M. T.**, Accoto, D., and Guglielmelli, E., Artificial Sense of Slip—A Review; *JSEN July 2013 2489-2498*
- Freund, M. S.**, see Emadi, T. A., *JSEN Feb. 2013 519-527*
- Freund, M. S.**, see Bhadra, S., *JSEN June 2013 2428-2436*
- Fritton, M.**, see Fericean, S., *JSEN Dec. 2013 4682-4689*
- Fritz, T.**, see Manyala, J. O., *JSEN Feb. 2013 629-636*
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- Fuda, H.**, see Takeda, S., *JSEN Sept. 2013 3449-3453*
- Fukada, Y.**, see Hisatake, S., *JSEN Jan. 2013 31-36*
- Fukuda, Y.**, Feng, M. Q., Narita, Y., Kaneko, S., and Tanaka, T., Vision-Based Displacement Sensor for Monitoring Dynamic Response Using Robust Object Search Algorithm; *JSEN Dec. 2013 4725-4732*
- Fulghum, M. R.**, Hargather, M. J., and Settles, G. S., Integrated Impactor/Detector for a High-Throughput Explosive-Trace Detection Portal; *JSEN April 2013 1252-1258*
- Fuller, C. B.**, Bonner, J. S., Islam, M. S., Ojo, T., Page, C. A., and Kirkey, W. D., Estimating Colloidal Concentration Using Acoustic Backscatter; *JSEN Nov. 2013 4546-4555*
- Fumeaux, C.**, see Horestani, A. K., *JSEN Aug. 2013 3014-3015*
- Fumeaux, C.**, see Horestani, A. K., *JSEN April 2013 1153-1160*
- Furse, C.**, see Lundquist, E. J., *JSEN April 2013 1172-1179*
- Furukawa, K.**, see Yamashita, K., *JSEN March 2013 1074-1080*
- Fusiek, G.**, see Orr, P., *JSEN June 2013 2053-2054*
- Futter, S. K.**, see Maier, R. R. J., *JSEN March 2013 969-979*
- G**
- Gaborit, G.**, see Ayde, R., *JSEN April 2013 1274-1280*
- Gago-Benitez, A.**, Fernandez-Madrigal, J.-A., and Cruz-Martin, A., Log-Logistic Modeling of Sensory Flow Delays in Networked Telerobots; *JSEN Aug. 2013 2944-2953*
- Galatolo, S.**, see Lorusi, F., *JSEN Jan. 2013 217-228*
- Ganesan, I.**, see Lim, K.-S., *JSEN May 2013 2020-2025*
- Ganguly, A.**, see Islam, T., *JSEN May 2013 1507-1513*
- Ganz, F.**, Barnaghi, P., and Carrez, F., Information Abstraction for Heterogeneous Real World Internet Data; *JSEN Oct. 2013 3793-3805*
- Gao, B.**, see Bai, L., *JSEN June 2013 2094-2101*
- Gao, H.**, see Shao, M., *JSEN May 2013 2026-2031*
- Gao, J.**, Siden, J., Nilsson, H.-E., and Gulliksson, M., Printed Humidity Sensor With Memory Functionality for Passive RFID Tags; *JSEN May 2013 1824-1834*
- Gao, Z.**, Kim, C.-S., and Henthorn, D. B., Sensor Application of Poly (Ethylene Glycol) Diacrylate Hydrogels Chemically-Anchored on Polymer Surface; *JSEN May 2013 1690-1698*
- Gardonio, P.**, see Alshehri, A., *JSEN March 2013 1003-1011*
- Gascoyne, M.**, see Hobby, M. J., *JSEN Feb. 2013 492-500*
- Gaskill, D. K.**, see Nagareddy, V. K., *JSEN Aug. 2013 2810-2817*
- Gaura, E. I.**, Brusey, J., Allen, M., Wilkins, R., Goldsmith, D., and Rednic, R., Edge Mining the Internet of Things; *JSEN Oct. 2013 3816-3825*
- Ge, Y.**, see Cao, B., *JSEN Oct. 2013 3585-3595*
- Ge, Y.**, see Tong, L., *JSEN May 2013 1849-1856*
- Geitmann, A.**, see Nezhad, A. S., *JSEN Feb. 2013 601-609*
- Gelmont, B.**, see Globus, T., *JSEN Jan. 2013 72-79*
- Geng, Y.**, see He, J., *JSEN Oct. 2013 3826-3836*
- Geng, Z.**, see Yang, F., *JSEN April 2013 1192-1199*
- Gennarelli, G.**, Romeo, S., Scarfi, M. R., and Soldovieri, F., A Microwave Resonant Sensor for Concentration Measurements of Liquid Solutions; *JSEN May 2013 1857-1864*
- Gennaro, S.**, see Dahiya, R. S., *JSEN Oct. 2013 4030-4037*
- Georgiou, P.**, see Bergmann, J. H. M., *JSEN Oct. 2013 4090-4097*
- Gerlach, G.**, see Schulz, V., *JSEN March 2013 994-1002*
- Gerst, A.**, see Rosental, A., *JSEN May 2013 1648-1655*
- Ghaedi, M.**, Montazerzohori, M., Khodadoust, S., and Behfar, M., Chemically Modified Multiwalled Carbon Nanotubes as Efficient Material for Construction of New Al(III) Ion Selective Carbon Paste Electrode; *JSEN Jan. 2013 321-327*
- Ghalwa, N. A.**, New Potentiometric Carbon Paste Electrode for Determination of Reactive Yellow 160 Dye Concentration in Textile Wastewater; *JSEN Dec. 2013 4757-4763*
- Ghanbari, M.**, see Nezhad, A. S., *JSEN Feb. 2013 601-609*
- Ghasemzadeh, H.**, Ostadabbas, S., Guenterberg, E., and Pantelopoulou, A., Wireless Medical-Embedded Systems: A Review of Signal-Processing Techniques for Classification; *JSEN Feb. 2013 423-437*
- Ghodssi, R.**, see Fang, W., *JSEN Aug. 2013 2809*
- Ghodssi, R.**, see Beyaz, M. I., *JSEN Aug. 2013 2937-2943*
- Ghosh, A.**, see Mohanasundaram, S. M., *JSEN Feb. 2013 440-441*
- Ghosh, A.**, Gupta, P. B. D., and Mandal, A. K., Development of a Fiber-Optic Current Sensor With Range-Changing Facility Using Shunt Configuration; *JSEN April 2013 1347-1354*
- Ghosh, S. K.**, see Chakraborty, A., *JSEN July 2013 2771-2779*
- Giancaterini, L.**, see De Marcellis, A., *JSEN July 2013 2792-2798*
- Gieseck, R. L.**, see Chan, B.-D., *JSEN Aug. 2013 2857-2862*
- Gill, J.**, see Choi, J. K., *JSEN Jan. 2013 80-88*
- Gillet, P.**, see Perrier, A.-L., *JSEN June 2013 2450-2458*
- Gimenez, A. J.**, Yanez-Limon, J. M., and Seminario, J. M., ZnO-Cellulose Composite for UV Sensing; *JSEN April 2013 1301-1306*
- Girin, A.**, see Servagent, N., *JSEN May 2013 1865-1882*
- Gislerud, K. O.**, see Vardoy, A.-S. B., *JSEN Oct. 2013 4049-4055*
- Glenn, G. M.**, see Oliveira, J. E., *JSEN Feb. 2013 759-766*
- Globus, T.**, Moyer, A. M., Gelmont, B., Khromova, T., Lvovska, M. I., Sizov, I., and Ferrance, J., Highly Resolved Sub-Terahertz Vibrational Spectroscopy of Biological Macromolecules and Cells; *JSEN Jan. 2013 72-79*
- Gmachl, C. F.**, see Escarra, M. D., *JSEN June 2013 2348-2356*
- Goddard, L. L.**, see Griffin, B. G., *JSEN Aug. 2013 3098-3105*
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- Gong, X.**, see Liu, X., *JSEN Aug. 2013 3016-3024*
- Gonzalez-Herraez, M.**, see Filograno, M. L., *JSEN Dec. 2013 4808-4816*
- Gonzalez-Ruiz, A.**, and Mostofi, Y., Cooperative Robotic Structure Mapping Using Wireless Measurements—A Comparison of Random and Coordinated Sampling Patterns; *JSEN July 2013 2571-2580*
- Gonzalez-Serrano, F.-J.**, see Pino-Povedano, S., *JSEN Nov. 2013 4163-4171*
- Gopalakrishnan, N.**, see Balakrishnan, L. N., *JSEN June 2013 2055-2060*
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- Gossiaux, P.-B.**, see Servagent, N., *JSEN May 2013 1865-1882*
- Gottardi, M.**, see Cottini, N., *JSEN Sept. 2013 3341-3342*
- Goudar, V. S.**, Suran, S., Prashanth, G. R., and Varma, M. M., Detection of Hepatitis B DNA Sequences on Polyelectrolyte Based Non-Covalently Functionalized Flexible Plastic Substrates; *JSEN Dec. 2013 4817-4823*
- Gowrishankar, S.**, see Balakrishnan, L. N., *JSEN June 2013 2055-2060*
- Grabmaier, A.**, see Dogiamis, G. C., *JSEN Oct. 2013 3892-3900*
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- Grattan, K. T.**, see Tu, H., *JSEN June 2013 2192-2199*
- Grattan, K. T.**, see Surre, F., *JSEN March 2013 1036-1043*
- Grattan, K. T. V.**, see Karimi, M., *JSEN Nov. 2013 4459-4464*
- Grattan, K. T. V.**, see Scott, R. H., *JSEN July 2013 2555-2562*
- Grattan, K. T. V.**, see Alwis, L., *JSEN March 2013 1117-1124*
- Grattan, K. V.**, see Alwis, L., *JSEN Feb. 2013 767-771*
- Greco, A.**, see Casciaro, S., *JSEN June 2013 2305-2312*
- Grenier, D.**, see Perrier, A.-L., *JSEN June 2013 2450-2458*
- Grieco, L. A.**, see Palattella, M. R., *JSEN Oct. 2013 3655-3666*

- Griffin, B. G.**, Arbabi, A., and Goddard, L. L., Engineering the Sensitivity and Response Time of Edge-Emitting Laser Hydrogen Sensors; *JSEN Aug. 2013 3098-3105*
- Grossi, M.**, Lazzarini, R., Lanzoni, M., Pompei, A., Matteuzzi, D., and Ricco, B., A Portable Sensor With Disposable Electrodes for Water Bacterial Quality Assessment; *JSEN May 2013 1775-1782*
- Gu, D.-W.**, see Chandra, K. P. B., *JSEN Feb. 2013 750-758*
- Gu, H.**, see Zhang, G., *JSEN June 2013 2437-2441*
- Gu, H.**, Dong, H., Zhang, G., He, J., and Pan, H., Effects of Polymer Coatings on Temperature Sensitivity of Brillouin Frequency Shift Within Double-Coated Fibers; *JSEN Feb. 2013 864-869*
- Gu, Q.**, see Yang, H., *JSEN Dec. 2013 4831-4843*
- Guan, Y.**, see Zhang, L., *JSEN Oct. 2013 3775-3784*
- Guentherberg, E.**, see Ghasemzadeh, H., *JSEN Feb. 2013 423-437*
- Guglielmelli, E.**, see Francomano, M. T., *JSEN July 2013 2489-2498*
- Guglielmelli, E.**, see Taffoni, F., *JSEN Nov. 2013 4561-4568*
- Gui, H.**, see Lu, L., *JSEN Nov. 2013 4387-4392*
- Guidry, C. J.**, see Kobakhidze, L., *JSEN Aug. 2013 3053-3059*
- Guinet, M.**, see Mouret, G., *JSEN Jan. 2013 133-138*
- Gulati, V.**, see Bergmann, J. H. M., *JSEN Oct. 2013 4090-4097*
- Gulliksson, M.**, see Gao, J., *JSEN May 2013 1824-1834*
- Gullo, M. R.**, see Henriksson, J., *JSEN Aug. 2013 2849-2856*
- Guo, D.**, see Du, J., *JSEN Dec. 2013 4690-4701*
- Guo, G.**, see Ning, X., *JSEN April 2013 1139-1140*
- Guo, Q.**, Suster, M. A., Surapaneni, R., Mastrangelo, C. H., and Young, D. J., High-Performance Interface Electronic System for a 13×13 Flexible Biomechanical Ground Reaction Sensor Array Achieving a Gait Ground Velocity Resolution of $100 \mu\text{m}/\text{sec}$; *JSEN Nov. 2013 4496-4505*
- Guo, T.**, see Zhang, J., *JSEN June 2013 2061-2065*
- Guo, T.**, see Rong, Q., *JSEN May 2013 1473-1477*
- Guo, X.**, Yi, Y.-B., and Pourkamali, S., Thermal-Piezoresistive Resonators and Self-Sustained Oscillators for Gas Recognition and Pressure Sensing; *JSEN Aug. 2013 2863-2872*
- Guo, Z.-Q.**, Wang, Q., Li, M.-H., and He, J., Fuzzy Logic Based Multidimensional Link Quality Estimation for Multi-Hop Wireless Sensor Networks; *JSEN Oct. 2013 3605-3615*
- Gupta, L. A.**, and Peroulis, D., Wireless Temperature Sensor for Condition Monitoring of Bearings Operating Through Thick Metal Plates; *JSEN June 2013 2292-2298*
- Gupta, M.**, see Das, A., *JSEN July 2013 2757-2762*
- Gupta, P. B. D.**, see Ghosh, A., *JSEN April 2013 1347-1354*
- Gurbuz, A. C.**, see Karakus, C., *JSEN May 2013 1999-2008*
- Gureviciene, V.**, see Laurinavicius, V., *JSEN June 2013 2208-2213*
- Gustafson, T.**, see Ness, S. J., *JSEN March 2013 959-968*
- Gutierrez-Martinez, C.**, Santos-Aguilar, J., and Morales-Diaz, A., On the Design of Video-Bandwidth Electric Field Sensing Systems Using Dielectric LiNbO_3 Electro-Optic Sensors and Optical Delays as Signal Carriers; *JSEN Nov. 2013 4196-4203*
- Gutin, A.**, Ytterdal, T., Kachorovskii, V., Muraviev, A., and Shur, M., THz SPICE for Modeling Detectors and Nonquadratic Response at Large Input Signal; *JSEN Jan. 2013 55-62*
- Guy, S.**, see Esmaeili, M., *JSEN Sept. 2013 3293-3301*

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- Haario, H.**, see Roozbahani, H., *JSEN Nov. 2013 4432-4443*
- Hackett, B. E.**, see Duy, W. S. D., *JSEN Dec. 2013 4780-4785*
- Hadjiloucas, S.**, Walker, G. C., and Bowen, J. W., One-Port De-Embedding Technique for the Quasi-Optical Characterization of Integrated Components; *JSEN Jan. 2013 111-123*
- Hadjiloucas, S.**, see Bowen, J. W., *JSEN Jan. 2013 100-110*
- Hafner, N.**, see Massagram, W., *JSEN Sept. 2013 3397-3404*
- Hafner, N.**, Drazen, J. C., and Lubecke, V. M., Fish Heart Rate Monitoring by Body-Contact Doppler Radar; *JSEN Jan. 2013 408-414*
- Hagem, R. M.**, O'Keefe, S. G., Fickenscher, T., and Thiel, D. V., Self Contained Adaptable Optical Wireless Communications System for Stroke Rate During Swimming; *JSEN Aug. 2013 3144-3151*
- Han, J.-H.**, Han, S.-W., Kim, S. M., Pak, J. J., and Moon, S., High Detection Performance of NDIR CO_2 Sensor Using Stair-Tapered Reflector; *JSEN Aug. 2013 3090-3097*
- Han, S.-W.**, see Han, J.-H., *JSEN Aug. 2013 3090-3097*
- Han, X.**, see Yao, X., *JSEN Oct. 2013 3693-3701*
- Hancke, G. P.**, see Kumar, A., *JSEN April 2013 1329-1339*
- Handroos, H.**, see Roozbahani, H., *JSEN Nov. 2013 4432-4443*
- Hanrahan, B.**, see Beyaz, M. I., *JSEN Aug. 2013 2937-2943*
- Hargather, M. J.**, see Fulghum, M. R., *JSEN April 2013 1252-1258*
- Harmer, S. W.**, see Andrews, D. A., *JSEN Dec. 2013 4948-4954*
- Harris, N. R.**, see Zhu, D., *JSEN Feb. 2013 691-700*
- Harun, S. W.**, see Jasim, A. A., *JSEN Feb. 2013 626-628*
- Harun, S. W.**, see Lim, K.-S., *JSEN May 2013 2020-2025*
- Harun, S. W.**, Jasim, A. A., Rahman, H. A., Muhammad, M. Z., and Ahmad, H., Micro-Ball Lensed Fiber-Based Glucose Sensor; *JSEN Jan. 2013 348-350*
- Harun, S. W.**, see Rahman, H. A., *JSEN Jan. 2013 294-298*
- Harun, S. W.**, see Yang, H., *JSEN July 2013 2581-2585*
- Harun, S. W.**, see Batumalay, M., *JSEN Dec. 2013 4702-4705*
- Hashimoto, N.**, see Hirokubo, N., *JSEN Aug. 2013 2930-2936*
- Hashmi, M.**, see Shafiq, M., *JSEN March 2013 1081-1091*
- Hatime, H.**, Pendse, R., and Watkins, J. M., Comparative Study of Task Allocation Strategies in Multirobot Systems; *JSEN Jan. 2013 253-262*
- Hayashi, K.**, see Chen, B., *JSEN Nov. 2013 4212-4219*
- Hayashi, K.**, see Chen, B., *JSEN April 2013 1307-1314*
- He, H.**, Yang, J., and Kosinski, J. A., Scalar Differential Equation for Slowly-Varying Thickness-Shear Modes in AT-Cut Quartz Resonators With Surface Impedance for Acoustic Wave Sensor Application; *JSEN Nov. 2013 4349-4355*
- He, J.**, see Gu, H., *JSEN Feb. 2013 864-869*
- He, J.**, see Zhang, G., *JSEN June 2013 2437-2441*
- He, J.**, see Guo, Z.-Q., *JSEN Oct. 2013 3605-3615*
- He, J.**, Geng, Y., Wan, Y., Li, S., and Pahlavan, K., A Cyber Physical Test-Bed for Virtualization of RF Access Environment for Body Sensor Network; *JSEN Oct. 2013 3826-3836*
- He, L.**, see Xu, W., *JSEN Oct. 2013 3926-3934*
- He, W.-L.**, see Ou, C.-H., *JSEN Feb. 2013 466-475*
- Headings, L. M.**, see Kotian, K., *JSEN Nov. 2013 4444-4451*
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- Hempel, M.**, see Shrestha, P. L., *JSEN Oct. 2013 3616-3624*
- Henneken, V.**, see Mimoun, B., *JSEN Oct. 2013 3873-3882*
- Henriksson, J.**, Gullo, M. R., and Brugger, J., Integrated Long-Range Thermal Bimorph Actuators for Parallelizable Bio-AFM Applications; *JSEN Aug. 2013 2849-2856*
- Henthorn, D. B.**, see Gao, Z., *JSEN May 2013 1690-1698*
- Hernaez, M.**, see Sanchez, P., *JSEN April 2013 1167-1171*
- Hernandez, S. C.**, see Nagareddy, V. K., *JSEN Aug. 2013 2810-2817*
- Hewage, K.**, see Raza, S., *JSEN Oct. 2013 3711-3720*
- Hilber, W.**, and Jakoby, B., A Magnetic Membrane Actuator in Composite Technology Utilizing Diamagnetic Levitation; *JSEN July 2013 2786-2791*
- Hiller-Brod, A.**, see Fericean, S., *JSEN Dec. 2013 4682-4689*
- Hillion, M.**, see Mohamadabadi, K., *JSEN Feb. 2013 772-776*
- Hillion, M.**, see Mohamadabadi, K., *JSEN April 2013 1355-1362*
- Himbert, M.**, see Bore, T., *JSEN Feb. 2013 457-465*
- Hindle, F.**, Shur, M., Abbot, D., and Ozanyan, K. B., Guest Editorial THz Sensing: Materials, Devices, and Systems; *JSEN Jan. 2013 7*
- Hindle, F.**, see Mouret, G., *JSEN Jan. 2013 133-138*
- Hirai, S.**, see Ho, V. A., *JSEN Oct. 2013 4065-4080*
- Hirokubo, N.**, Komatsu, H., Hashimoto, N., Sonehara, M., and Sato, T., Wide-band Visible Wavelength Range MEMS Fabry-Perot Tunable Filter With Highly Accurate Calibration System; *JSEN Aug. 2013 2930-2936*
- Hirtenstein, D.**, see Alfeeli, B., *JSEN Nov. 2013 4312-4319*
- Hisatake, S.**, Kitahara, G., Ajito, K., Fukada, Y., Yoshimoto, N., and Nagatsuma, T., Phase-Sensitive Terahertz Self-Heterodyne System Based on Photodiode and Low-Temperature-Grown GaAs Photoconductor at $1.55 \mu\text{m}$; *JSEN Jan. 2013 31-36*
- Ho, H. P.**, see Lu, X., *JSEN April 2013 1245-1251*
- Ho, J.-H.**, see Shih, H.-C., *JSEN July 2013 2683-2689*
- Ho, K.-I.**, see Huang, C.-H., *JSEN June 2013 2459-2465*
- Ho, V. A.**, Makikawa, M., and Hirai, S., Flexible Fabric Sensor Toward a Humanoid Robot's Skin: Fabrication, Characterization, and Perceptions; *JSEN Oct. 2013 4065-4080*
- Ho, W. F.**, Chan, H. P., and Yang, K. L., Planar Optical Waveguide Platform for Gas Sensing Using Liquid Crystal; *JSEN July 2013 2521-2522*
- Ho, Y.-H.**, see Tian, W.-C., *JSEN May 2013 1725-1729*
- Hobby, M. J.**, Thomas, R. E., Gascoyne, M., Parsons, D. R., Keevil, G. M., Peakall, J., and Carrivick, J. L., MEMS-Integrated Load Cell for Measuring Pressure, Erosion, and Deposition in Dynamic Environmental Flows; *JSEN Feb. 2013 492-500*

- Hoffman, M. W.**, see Schrage, C., *JSEN July 2013 2610-2618*
- Hoflinger, F.**, see Zhang, R., *JSEN Feb. 2013 838-848*
- Hohertz, D.**, see Chuo, Y., *JSEN Oct. 2013 3982-3990*
- Hollerman, W. A.**, see Kobakhidze, L., *JSEN Aug. 2013 3053-3059*
- Holz, P. A.**, and Zagar, B. G., Improving the Spatial Resolution of Magneto Resistive Sensors via Deconvolution; *JSEN Nov. 2013 4296-4304*
- Hong, S.-M.**, see Tatinati, S., *JSEN Dec. 2013 4977-4985*
- Hong, Y.**, see Qiao, G., *JSEN April 2013 1141-1142*
- Horestani, A. K.**, Abbott, D., and Fumeaux, C., Rotation Sensor Based on Horn-Shaped Split Ring Resonator; *JSEN Aug. 2013 3014-3015*
- Horestani, A. K.**, Fumeaux, C., Al-Sarawi, S. F., and Abbott, D., Displacement Sensor Based on Diamond-Shaped Tapered Split Ring Resonator; *JSEN April 2013 1153-1160*
- Horowitz, R.**, see Felix, S., *JSEN May 2013 1708-1715*
- Horsfall, A. B.**, see Nagareddy, V. K., *JSEN Aug. 2013 2810-2817*
- Horsley, D. A.**, see Jaramillo, G., *JSEN Aug. 2013 2993-3000*
- Horsley, D. A.**, see Rouf, V. T., *JSEN Nov. 2013 4474-4481*
- Hossein-Zadeh, M.**, see Liu, F., *JSEN Jan. 2013 146-147*
- Hosseini, J.**, see Mirmohseni, A., *JSEN Nov. 2013 4542-4545*
- Hosticka, B. J.**, see Dogiamis, G. C., *JSEN Oct. 2013 3892-3900*
- Hsia, C.-H.**, see Chiang, J.-S., *JSEN May 2013 1677-1689*
- Hsia, S.-C.**, Sheu, M.-H., and Chang, Y.-J., Arrow-Pointer Sensor Design for Low-Cost Water Meter; *JSEN April 2013 1281-1287*
- Hsiao, C.-H.**, see Chen, T.-P., *JSEN June 2013 2115-2119*
- Hsiao, C.-H.**, see Lin, Z.-D., *JSEN June 2013 2423-2427*
- Hsiao, Y.-J.**, see Ji, L.-W., *JSEN Dec. 2013 4940-4943*
- Hsieh, C.-C.**, see Yeh, S.-F., *JSEN March 2013 1012-1017*
- Hsieh, Y.-T.**, see Fan, Y.-C., *JSEN July 2013 2586-2594*
- Hsu, C. L.**, see Wu, Y. L., *JSEN June 2013 2368-2373*
- Hsu, C.-C.**, Chen, Y.-Y., Chou, C.-F., and Golubchik, L., On Design of Collaborative Mobile Sensor Networks for Deadline-Sensitive Mobile Target Detection; *JSEN Aug. 2013 2962-2972*
- Hsu, C.-L.**, see Tsai, T.-Y., *JSEN Dec. 2013 4891-4896*
- Hsu, C.-S.**, Chen, H.-I., Chou, P.-C., Liou, J.-K., Chen, C.-C., Chang, C.-F., and Liu, W.-C., Hydrogen-Sensing Properties of a Pd/AlGaIn/GaN-Based Field-Effect Transistor Under a Nitrogen Ambience; *JSEN May 2013 1787-1793*
- Hsu, C.-S.**, Lin, K.-W., and Liu, W.-C., A Wireless-Transfer-Based Hydrogen Gas Sensing System With a Pd/AlGaIn/GaN Heterostructure Field-Effect Transistor (HFET); *JSEN June 2013 2299-2304*
- Hsu, H.-W.**, see Chiang, J.-S., *JSEN May 2013 1677-1689*
- Hsu, J.-Y.**, see Wu, M.-F., *JSEN Nov. 2013 4413-4422*
- Hsu, Y.-J.**, see Chen, T.-P., *JSEN June 2013 2115-2119*
- Hsueh, H.-T.**, see Tsai, T.-Y., *JSEN Dec. 2013 4891-4896*
- Hsueh, T.-J.**, see Tsai, T.-Y., *JSEN Dec. 2013 4891-4896*
- Hsueh, T.-J.**, see Huang, Z.-D., *JSEN April 2013 1187-1191*
- Hsueh, T.-J.**, see Huang, Z.-D., *JSEN Sept. 2013 3462-3467*
- Hu, C.**, Zheng, D., and Fan, S., Experimental Study and Implementation of a Novel Digital Closed-Loop Control System for Coriolis Mass Flowmeter; *JSEN Aug. 2013 3032-3038*
- Hu, C.**, Qu, W., Zhang, Z., Feng, Z., Song, S., and Meng, M. Q.-H., Recovering Amplitudes and Phases From Saturated Multifrequency Sinusoid Signals; *JSEN Nov. 2013 4569-4575*
- Hu, H.**, Deng, Y., and Zou, J., Microfluidic Smectite-Polymer Nanocomposite Strip Sensor for Aflatoxin Detection; *JSEN May 2013 1835-1839*
- Hu, J.**, see Su, H., *JSEN May 2013 1403-1412*
- Hu, L.**, see Qi, F., *JSEN Sept. 2013 3468-3471*
- Hu, M.**, see Rong, Q., *JSEN Nov. 2013 4356-4360*
- Hu, M.**, see Zhang, J., *JSEN June 2013 2061-2065*
- Hu, M.**, see Sun, H., *JSEN May 2013 2039-2044*
- Hu, M.**, see Wang, R., *JSEN May 2013 1766-1770*
- Hu, M.**, see Rong, Q., *JSEN May 2013 1473-1477*
- Hu, R. Q.**, see Wang, C., *JSEN Oct. 2013 3505-3510*
- Hu, W.**, see Shen, Y., *JSEN June 2013 2120-2128*
- Hu, W.**, see Ness, S. J., *JSEN March 2013 959-968*
- Hua, X.**, see Jiang, J., *JSEN May 2013 1921-1930*
- Hua, X.-N.**, see Jiang, J.-J., *JSEN Aug. 2013 3136-3143*
- Hua, Y.-F.**, see Huang, Z.-D., *JSEN April 2013 1187-1191*
- Huang, B.**, Yang, D. C. H., Madni, A. M., and Vuong, J. B., Multielectrode Differential Capacitive Sensors—Model Simulation With Design Application; *JSEN April 2013 1371-1379*
- Huang, B.**, see Xue, H., *JSEN Nov. 2013 4220-4223*
- Huang, C.**, see Zhou, Y., *JSEN Oct. 2013 3568-3574*
- Huang, C.-H.**, Wang, I.-S., Ho, K.-I., Lin, Y.-T., Chou, C., Chan, C.-F., and Lai, C.-S., High Polarization and Low-Repulsion HfO₂ Thin Film for Alkali Metal Ion Detections by Plasma System With a Complementary Filter; *JSEN June 2013 2459-2465*
- Huang, C.-S.**, see Lin, Z.-D., *JSEN June 2013 2423-2427*
- Huang, G.**, see Ye, Z., *JSEN May 2013 1425-1433*
- Huang, H.**, Flexible Wireless Antenna Sensor: A Review; *JSEN Oct. 2013 3865-3872*
- Huang, H.**, see Tang, R., *JSEN Oct. 2013 3991-3998*
- Huang, J.**, see Xu, Z., *JSEN July 2013 2729-2736*
- Huang, J.-T.**, see Liu, H.-C., *JSEN July 2013 2737-2741*
- Huang, J.-T.**, see Liu, H.-C., *JSEN Dec. 2013 4992*
- Huang, M.-C.**, see Xu, W., *JSEN Oct. 2013 3926-3934*
- Huang, P.-C.**, see Chen, D.-Y., *JSEN June 2013 2129-2138*
- Huang, Q.-A.**, see Liu, X., *JSEN May 2013 1541-1548*
- Huang, S. X.**, see Fang, Q., *JSEN July 2013 2711-2719*
- Huang, T.**, see Lan, J., *JSEN July 2013 2720-2728*
- Huang, W.-C.**, see Liu, H.-C., *JSEN Dec. 2013 4992*
- Huang, W.-C.**, see Liu, H.-C., *JSEN July 2013 2737-2741*
- Huang, W.-D.**, see Nguyen, C. M., *JSEN Oct. 2013 3857-3864*
- Huang, X. G.**, see Xu, W., *JSEN May 2013 1571-1574*
- Huang, Z.-D.**, Weng, W.-Y., Chang, S.-J., Hua, Y.-F., Chiu, C.-J., Hsueh, T.-J., and Wu, S.-L., InGaIn/GaN Multiquantum-Well Metal-Semiconductor-Metal Photodetectors With Beta-Ga₂O₃ Cap Layers; *JSEN April 2013 1187-1191*
- Huang, Z.-D.**, Weng, W. Y., Chang, S. J., Chiu, C.-J., Hsueh, T.-J., and Wu, S.-L., Ga₂O₃/AlGaIn/GaN Heterostructure Ultraviolet Three-Band Photodetector; *JSEN Sept. 2013 3462-3467*
- Huber, S.**, Schott, C., and Paul, O., Package Stress Monitor to Compensate for the Piezo-Hall Effect in CMOS Hall Sensors; *JSEN Aug. 2013 2890-2898*
- Huebers, H.-W.**, see Bowen, J. W., *JSEN Jan. 2013 100-110*
- Hui, P.**, see Liu, C. H., *JSEN Oct. 2013 3742-3753*
- Hui, S.-P.**, see Takeda, S., *JSEN Sept. 2013 3449-3453*
- Huijising, J. H.**, see Aita, A. L., *JSEN May 2013 1840-1848*
- Hummel, R.**, see Raza, S., *JSEN Oct. 2013 3711-3720*
- Hur, H.**, and Ahn, H.-S., Discrete-Time H_{∞} Filtering for Mobile Robot Localization Using Wireless Sensor Network; *JSEN Jan. 2013 245-252*
- Husain, I.**, Choudhury, A., and Nath, P., Fiber-Optic Volumetric Sensor Based on Beer-Lambert Principle; *JSEN Sept. 2013 3345-3346*
- Huttunen, A.**, Berg, M., Myllymaki, S., Jantunen, H., and Salonen, E. T., Capacitive Sensing of Antenna Loading With an R-C Voltage Divider in a Tunable Antenna; *JSEN Feb. 2013 849-853*
- Hyodo, A.**, see Nakagawa, T., *JSEN March 2013 926-933*

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- Ibrahim, Z.**, see Luo, D., *JSEN Sept. 2013 3415-3420*
- Ichimiya, R.**, see Ishigaki, Y., *JSEN Oct. 2013 3520-3526*
- Icoz, K.**, see Chan, B.-D., *JSEN Aug. 2013 2857-2862*
- Iglesias, R.**, see Chen, C., *JSEN May 2013 1748-1755*
- Iida, T.**, see Seo, M.-W., *JSEN Aug. 2013 2922-2929*
- Iizuka, T.**, see Mai-Khanh, N. N., *JSEN July 2013 2675-2682*
- Ilg, J.**, Rupitsch, S. J., and Lerch, R., Impedance-Based Temperature Sensing With Piezoceramic Devices; *JSEN June 2013 2442-2449*
- Iliadis, A. A.**, see Rakshit, S., *JSEN Nov. 2013 4264-4270*
- Imenes, K.**, see Vardoy, A.-S. B., *JSEN Oct. 2013 4049-4055*
- Imperatori, G.**, Cunzolo, P., Cvetkov, D., and Barrettino, D., Wireless Surface Electromyography Probes With Four High-Speed Channels; *JSEN Aug. 2013 2954-2961*
- Indjin, D.**, see Valavanis, A., *JSEN Jan. 2013 37-43*
- Iqbal, N.**, see Lee, H., *JSEN Sept. 2013 3219-3225*
- Ishak, A. M.**, Baker, P. C., Siew, W. H., and Judd, M. D., Characterizing the Sensitivity of UHF Partial Discharge Sensors Using FDTD Modeling; *JSEN Aug. 2013 3025-3031*
- Ishigaki, Y.**, Matsumoto, Y., Ichimiya, R., and Tanaka, K., Development of Mobile Radiation Monitoring System Utilizing Smartphone and Its Field Tests in Fukushima; *JSEN Oct. 2013 3520-3526*
- Ishii, I.**, see Yang, H., *JSEN Dec. 2013 4831-4843*
- Islam, M. A.**, Sundaraj, K., Ahmad, R. B., Ahamed, N. U., and Ali, M. A., Mechanomyography Sensor Development, Related Signal Processing, and Applications: A Systematic Review; *JSEN July 2013 2499-2516*
- Islam, M. S.**, see Fuller, C. B., *JSEN Nov. 2013 4546-4555*

- Islam, S. K.**, see Tulip, F. S., *JSEN Feb. 2013 438-439*
Islam, T., Kumar, L., Uddin, Z., and Ganguly, A., Relaxation Oscillator-Based Active Bridge Circuit for Linearly Converting Resistance to Frequency of Resistive Sensor; *JSEN May 2013 1507-1513*
Ismail, Z., see Luo, D., *JSEN Sept. 2013 3415-3420*
Ito, H., see Watanabe, T., *JSEN Jan. 2013 89-99*
Itoh, T., see Naito, T., *JSEN Aug. 2013 2899-2905*
Ituero, P., and Lopez-Vallejo, M., Ratio-Based Temperature-Sensing Technique Hardened Against Nanometer Process Variations; *JSEN Feb. 2013 442-443*

J

- Jablonski, I.**, Modern Methods for the Description of Complex Couplings in the Neurophysiology of Respiration; *JSEN Sept. 2013 3182-3192*
Jadhav, M., see Oh, S., *JSEN Oct. 2013 3957-3961*
Jaeger, R. C., see Chen, Y., *JSEN June 2013 2066-2076*
Jafarizadeh, S., and Jamalipour, A., Data Persistency in Wireless Sensor Networks Using Distributed Luby Transform Codes; *JSEN Dec. 2013 4880-4890*
Jaffery, Z. A., and Dubey, A. K., Architecture of Noninvasive Real Time Visual Monitoring System for Dial Type Measuring Instrument; *JSEN April 2013 1236-1244*
Jain, S. C., see Tiwari, U., *JSEN April 2013 1315-1319*
Jakoby, B., see Hilber, W., *JSEN July 2013 2786-2791*
Jamalipour, A., see Jafarizadeh, S., *JSEN Dec. 2013 4880-4890*
Jantunen, H., see Huttunen, A., *JSEN Feb. 2013 849-853*
Jaramillo, G., Buffa, C., Li, M., Brechtel, F. J., Langfelder, G., and Horsley, D. A., MEMS Electrometer With Femtoampere Resolution for Aerosol Particulate Measurements; *JSEN Aug. 2013 2993-3000*
Jarrige, P., see Ayde, R., *JSEN April 2013 1274-1280*
Jasim, A. A., see Harun, S. W., *JSEN Jan. 2013 348-350*
Jasim, A. A., Harun, S. W., Arof, H., and Ahmad, H., Inline Microfiber Mach-Zehnder Interferometer for High Temperature Sensing; *JSEN Feb. 2013 626-628*
Javanmard, M., and Davis, R. W., Coded Corrugated Microfluidic Sidewalls for Code Division Multiplexing; *JSEN May 2013 1399-1400*
Javidi, B., see Anand, A., *JSEN Feb. 2013 723-727*
Javitt, M., see Savuskan, V., *JSEN June 2013 2322-2328*
Javitt, M., see Savuskan, V., *JSEN May 2013 1637-1640*
Jawad, B., see Servagent, N., *JSEN May 2013 1865-1882*
Jayas, D. S., see Emadi, T. A., *JSEN Feb. 2013 519-527*
Jeandet, A., see Mohamadabadi, K., *JSEN Feb. 2013 772-776*
Jelicic, V., Magno, M., Brunelli, D., Paci, G., and Benini, L., Context-Adaptive Multimodal Wireless Sensor Network for Energy-Efficient Gas Monitoring; *JSEN Jan. 2013 328-338*
Jeong, D.-H., see Jeong, H.-H., *JSEN Jan. 2013 351-358*
Jeong, G.-M., Yang, Y., and Choi, S.-I., Time Horizon Selection Using Feature Feedback for the Implementation of an E-Nose System; *JSEN May 2013 1575-1581*
Jeong, H.-H., Son, Y.-J., Kang, S.-K., Kim, H.-J., Roh, H.-J., Erdene, N., Park, J.-H., Jeong, D.-H., Lee, H.-Y., and Lee, S.-K., Fiber-Optic Refractive Index Sensor Based on the Cone-Based Round Structure; *JSEN Jan. 2013 351-358*
Jeunesse, P., and Schmidhammer, U., "On-the-Fly" Monitoring With a Single-Shot Terahertz Time-Domain Spectrometer; *JSEN Jan. 2013 44-49*
Ji, L.-W., Wu, C.-Z., Fang, T.-H., Hsiao, Y.-J., Meen, T.-H., Water, W., Chiu, Z.-W., and Lam, K.-T., Characteristics of Flexible Thin-Film Transistors With ZnO Channels; *JSEN Dec. 2013 4940-4943*
Ji, L.-W., see Chen, T.-P., *JSEN June 2013 2115-2119*
Ji, X., see Cao, Z., *JSEN May 2013 1447-1451*
Jia, P.-G., Wang, D.-H., Yuan, G., and Jiang, X.-Y., An Active Temperature Compensated Fiber-Optic Fabry-Perot Accelerometer System for Simultaneous Measurement of Vibration and Temperature; *JSEN June 2013 2334-2340*
Jia, Z., see Li, Y., *JSEN May 2013 2032-2038*
Jiang, D., see Demosthenous, A., *JSEN Sept. 2013 3236-3248*
Jiang, D., Zhang, W., and Li, F., All-Metal Optical Fiber Accelerometer With Low Transverse Sensitivity for Seismic Monitoring; *JSEN Nov. 2013 4556-4560*
Jiang, H., see Zhang, L., *JSEN Oct. 2013 3775-3784*

- Jiang, J.**, Duan, F., Chen, J., Chao, Z., Chang, Z., and Hua, X., Two New Estimation Algorithms for Sensor Gain and Phase Errors Based on Different Data Models; *JSEN May 2013 1921-1930*
Jiang, J.-A., Zheng, X.-Y., Chen, Y.-F., Wang, C.-H., Chen, P.-T., Chuang, C.-L., and Chen, C.-P., A Distributed RSS-Based Localization Using a Dynamic Circle Expanding Mechanism; *JSEN Oct. 2013 3754-3766*
Jiang, J.-J., Duan, F.-J., Chen, J., Li, Y.-C., and Hua, X.-N., Mixed Near-Field and Far-Field Sources Localization Using the Uniform Linear Sensor Array; *JSEN Aug. 2013 3136-3143*
Jiang, L., see Zhang, T., *JSEN Feb. 2013 510-518*
Jiang, L., see Sun, X., *JSEN Nov. 2013 4527-4533*
Jiang, Q., see Li, X., *JSEN Feb. 2013 574-580*
Jiang, S., see Wang, Z. L., *JSEN Nov. 2013 4271-4278*
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Jiang, T.-S., see Chiu, N.-F., *JSEN Sept. 2013 3483-3489*
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Jin, S., see Takeda, S., *JSEN Sept. 2013 3449-3453*
Jin, S., see Qi, F., *JSEN Sept. 2013 3468-3471*
Jin, X., Liu, Z., and Yang, J., New Flash ADC Scheme With Maximal 13 Bit Variable Resolution and Reduced Clipped Noise for High-Performance Imaging Sensor; *JSEN Jan. 2013 167-171*
Jo, J., see Lee, Y. K., *JSEN May 2013 1459-1463*
Johnson, B., Peace, S. T., Wang, A., Cleland, T. A., and Molnar, A., A 768-Channel CMOS Microelectrode Array With Angle Sensitive Pixels for Neuronal Recording; *JSEN Sept. 2013 3211-3218*
Johnston, M., see Perry, M., *JSEN Feb. 2013 816-823*
Jokerst, N. M., see Royal, M. W., *JSEN Dec. 2013 4733-4742*
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Jost, T. R., see Carrara, S., *JSEN March 2013 1018-1024*
Ju, Z., Ouyang, G., Wilamowska-Korsak, M., and Liu, H., Surface EMG Based Hand Manipulation Identification Via Nonlinear Feature Extraction and Classification; *JSEN Sept. 2013 3302-3311*
Judd, M. D., see Ishak, A. M., *JSEN Aug. 2013 3025-3031*
Judd, M. D., see Roscoe, N. M., *JSEN June 2013 2263-2270*
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Juhasz, G., see Marton, G., *JSEN Sept. 2013 3263-3269*
Jung, M.-S., see Choi, J.-H., *JSEN Aug. 2013 3079-3089*
Jung, S.-J., Myllyla, R., and Chung, W.-Y., Wireless Machine-to-Machine Healthcare Solution Using Android Mobile Devices in Global Networks; *JSEN May 2013 1419-1424*
Jung, S.-J., and Chung, W.-Y., Non-Intrusive Healthcare System in Global Machine-to-Machine Networks; *JSEN Dec. 2013 4824-4830*

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- Kaburagi, T.**, see Kurihara, Y., *JSEN Sept. 2013 3325-3330*
Kachorovskii, V., see Gutin, A., *JSEN Jan. 2013 55-62*
Kalansuriya, P., Bhattacharyya, R., and Sarma, S., RFID Tag Antenna-Based Sensing for Pervasive Surface Crack Detection; *JSEN May 2013 1564-1570*
Kaler, R. S., see Nidhi, *JSEN Nov. 2013 4139-4140*
Kamba, S., see Suzuki, T., *JSEN Dec. 2013 4972-4976*
Kamble, B. N., see Shewale, P. S., *JSEN May 2013 1992-1998*
Kaminska, B., see Chuo, Y., *JSEN Oct. 2013 3982-3990*
Kancleris, Z., Slekas, G., and Ciegis, R., Sensitivity of Asymmetrically Necked Planar Millimeter-Wave Detectors; *JSEN April 2013 1143-1147*
Kaneko, S., see Fukuda, Y., *JSEN Dec. 2013 4725-4732*
Kang, S.-K., see Jeong, H.-H., *JSEN Jan. 2013 351-358*
Kanoun, O., see Shi, Q., *JSEN Nov. 2013 4465-4473*
Kao, Z.-K., see Shiau, C.-C., *JSEN Oct. 2013 4038-4044*
Kapilevich, B., Litvak, B., Shulzinger, A., and Einat, M., Portable Passive Millimeter-Wave Sensor for Detecting Concealed Weapons and Explosives Hidden on a Human Body; *JSEN Nov. 2013 4224-4228*
Kapur, P., see Nidhi, *JSEN Nov. 2013 4139-4140*
Karakus, C., Gurbuz, A. C., and Tavli, B., Analysis of Energy Efficiency of Compressive Sensing in Wireless Sensor Networks; *JSEN May 2013 1999-2008*
Karaman, I., see Wardlaw, J. L., *JSEN Feb. 2013 709-722*
Karasik, B. S., see Choi, J. K., *JSEN Jan. 2013 80-88*
Karim, K. S., see Abbaszadeh, S., *JSEN May 2013 1452-1458*

- Karimi, M.**, Sun, T., and Grattan, K. T. V., Design Evaluation of a High Birefringence Single Mode Optical Fiber-Based Sensor for Lateral Pressure Monitoring Applications; *JSEN Nov. 2013 4459-4464*
- Karsilyan, A.**, see Wardlaw, J. L., *JSEN Feb. 2013 709-722*
- Karthik, G. V. S.**, Fathima, S. Y., Rahman, M. Z. U., Ahamed, S. R., and Lay-Ekuakille, A., Efficient Signal Conditioning Techniques for Brain Activity in Remote Health Monitoring Network; *JSEN Sept. 2013 3276-3283*
- Kasai, T.**, see Che, D.-C., *JSEN April 2013 1223-1227*
- Kasalynas, I.**, Venckevicius, R., and Valusis, G., Continuous Wave Spectroscopic Terahertz Imaging With InGaAs Bow-Tie Diodes at Room Temperature; *JSEN Jan. 2013 50-54*
- Kasikov, A.**, see Rosental, A., *JSEN May 2013 1648-1655*
- Kassanos, P.**, Triantis, I. F., and Demosthenous, A., A CMOS Magnitude/Phase Measurement Chip for Impedance Spectroscopy; *JSEN June 2013 2229-2236*
- Kato, N.**, see Kawamoto, Y., *JSEN Oct. 2013 3645-3654*
- Kattinger, G.**, see Kliche, K., *JSEN July 2013 2626-2635*
- Kavanagh, K. L.**, see Chuo, Y., *JSEN Oct. 2013 3982-3990*
- Kawahara, Y.**, see Shigeta, R., *JSEN Aug. 2013 2973-2983*
- Kawahito, S.**, see Seo, M.-W., *JSEN Aug. 2013 2922-2929*
- Kawamoto, Y.**, Nishiyama, H., Fadlullah, Z. M., and Kato, N., Effective Data Collection Via Satellite-Routed Sensor System (SRSS) to Realize Global-Scaled Internet of Things; *JSEN Oct. 2013 3645-3654*
- Kawano, F.**, see Orr, P., *JSEN June 2013 2053-2054*
- Kawano, Y.**, see Chen, R., *JSEN Jan. 2013 24-30*
- Kayal, M.**, see Bonjour, L.-E., *JSEN May 2013 1487-1497*
- Kayal, M.**, see Ajbl, A., *JSEN June 2013 2271-2278*
- Kazmierski, T. J.**, Wang, L., Merrett, G. V., Al-Hashimi, B. M., and Aloufi, M., Fast Design Space Exploration of Vibration-Based Energy Harvesting Wireless Sensors; *JSEN Nov. 2013 4393-4401*
- Keevil, G. M.**, see Hobby, M. J., *JSEN Feb. 2013 492-500*
- Keikhosravi, A.**, Zahedi, E., Attar, H.M., and Aghajani, H., Experimental Investigation of the Roles of Blood Volume and Density in Finger Photoplethysmography; *JSEN May 2013 1397-1398*
- Keller, F.**, see Taffoni, F., *JSEN Nov. 2013 4561-4568*
- Kelly, S. D. T.**, Suryadevara, N. K., and Mukhopadhyay, S. C., Towards the Implementation of IoT for Environmental Condition Monitoring in Homes; *JSEN Oct. 2013 3846-3853*
- Kenny, T. W.**, see Ng, E. J., *JSEN March 2013 987-993*
- Keong, H. C.**, Thotahewa, K. M. S., and Yuce, M. R., Transmit-Only Ultra Wide Band Body Sensors and Collision Analysis; *JSEN May 2013 1949-1958*
- Keplinger, F.**, see Weber, E., *JSEN Dec. 2013 4773-4779*
- Khalili, N.**, see Noor, M. Y. M., *JSEN May 2013 1817-1823*
- Khanna, S. P.**, see Valavanis, A., *JSEN Jan. 2013 37-43*
- Kher, S.**, Chaubey, S., Kishore, J., and Oak, S. M., Detection of Fuel Adulteration With High Sensitivity Using Turnaround Point Long Period Fiber Gratings in B/Ge Doped Fibers; *JSEN Nov. 2013 4482-4486*
- Kheradmand, R.**, see Shiramin, L. A., *JSEN May 2013 1483-1486*
- Khodadoust, S.**, see Ghaedi, M., *JSEN Jan. 2013 321-327*
- Khromova, T.**, see Globus, T., *JSEN Jan. 2013 72-79*
- Kianipour, S.**, and Asghari, A., Room Temperature Ionic Liquid/Multiwalled Carbon Nanotube/Chitosan-Modified Glassy Carbon Electrode as a Sensor for Simultaneous Determination of Ascorbic Acid, Uric Acid, Acetaminophen, and Mefenamic Acid; *JSEN July 2013 2690-2698*
- Kim, C.**, see Oh, S., *JSEN Oct. 2013 3957-3961*
- Kim, C. W.**, see Cao, B., *JSEN Oct. 2013 3585-3595*
- Kim, C.-S.**, see Gao, Z., *JSEN May 2013 1690-1698*
- Kim, D.**, see Oh, S., *JSEN Oct. 2013 3957-3961*
- Kim, D.**, and Culurciello, E., Tri-Mode Smart Vision Sensor With 11-Transistors/Pixel for Wireless Sensor Networks; *JSEN June 2013 2102-2108*
- Kim, D.**, and M'Closkey, R. T., Spectral Analysis of Vibratory Gyro Noise; *JSEN Nov. 2013 4361-4374*
- Kim, H.**, see Kumar, A., *JSEN April 2013 1329-1339*
- Kim, H.**, and Chang, S., High-Resolution Touch Floor System Using Particle Swarm Optimization Neural Network; *JSEN June 2013 2084-2093*
- Kim, H.-J.**, see Jeong, H.-H., *JSEN Jan. 2013 351-358*
- Kim, J.**, see Mahadeva, S. K., *JSEN June 2013 2223-2228*
- Kim, J.**, see Chen, Y., *JSEN Nov. 2013 4157-4162*
- Kim, J. H.**, see Shewale, P. S., *JSEN May 2013 1992-1998*
- Kim, S.**, see Ness, S. J., *JSEN March 2013 959-968*
- Kim, S. M.**, see Han, J.-H., *JSEN Aug. 2013 3090-3097*
- Kim, S. S.**, see Mah, M. L., *JSEN May 2013 1742-1747*
- Kim, W.**, see Seok, J.-H., *JSEN Dec. 2013 4796-4807*
- Kimura, M.**, Taya, J., Nakashima, A., and Sagawa, Y., Thermal Sensor Using Poly-Si Thin-Film Transistors With Self-Aligned and Offset Gate Structures; *JSEN May 2013 1771-1774*
- Kinkeldei, T.**, see Mattana, G., *JSEN Oct. 2013 3901-3909*
- Kirkendall, C. K.**, see Cranch, G. A., *JSEN March 2013 890-899*
- Kirkey, W. D.**, see Fuller, C. B., *JSEN Nov. 2013 4546-4555*
- Kishore, J.**, see Kher, S., *JSEN Nov. 2013 4482-4486*
- Kitahara, G.**, see Hisatake, S., *JSEN Jan. 2013 31-36*
- Kliche, K.**, Kattinger, G., Billat, S., Shen, L., Messner, S., and Zengerle, R., Sensor for Thermal Gas Analysis Based on Micromachined Silicon-Microwires; *JSEN July 2013 2626-2635*
- Kliese, R.**, see Valavanis, A., *JSEN Jan. 2013 37-43*
- Klotzkin, D.**, see Dixit, R., *JSEN May 2013 1965-1971*
- Knap, W.**, see Watanabe, T., *JSEN Jan. 2013 89-99*
- Knox, D. A.**, see Maier, R. R. J., *JSEN March 2013 969-979*
- Kobakhidze, L.**, Guidry, C. J., Hollerman, W. A., and Fontenot, R. S., Detecting Mechanoluminescence From ZnS:Mn Powder Using a High Speed Camera; *JSEN Aug. 2013 3053-3059*
- Kogo, K.**, see Nakagawa, T., *JSEN March 2013 926-933*
- Kohler, P.**, see Abdellah, A., *JSEN Oct. 2013 4014-4021*
- Kokil, A.**, see Satapathi, S., *JSEN June 2013 2329-2333*
- Kokkinos, T.**, see Lin, C.-K., *JSEN March 2013 1044-1054*
- Komatsu, H.**, see Hirokubo, N., *JSEN Aug. 2013 2930-2936*
- Kondo, N.**, see Suzuki, T., *JSEN Dec. 2013 4972-4976*
- Kondo, T.**, see Suzuki, T., *JSEN Dec. 2013 4972-4976*
- Koneru, A.**, see Yang, F., *JSEN April 2013 1192-1199*
- Konno, N.**, see Naito, T., *JSEN Aug. 2013 2899-2905*
- Koo, I.**, see Nguyen-Thanh, N., *JSEN Nov. 2013 4188-4195*
- Koomson, V. J.**, see Sthalekar, C. C., *JSEN Sept. 2013 3166-3174*
- Kopeika, N. S.**, see Rozban, D., *JSEN Jan. 2013 139-145*
- Kosel, J.**, see Sun, J., *JSEN Feb. 2013 664-669*
- Koshelev, M. A.**, see Parshin, V. V., *JSEN Jan. 2013 18-23*
- Kosinski, J. A.**, see He, H., *JSEN Nov. 2013 4349-4355*
- Koski, K.**, see Vena, A., *JSEN Dec. 2013 4627-4637*
- Kostakis, I.**, see Missous, M., *JSEN Jan. 2013 63-71*
- Kotian, K.**, Headings, L. M., and Dapino, M. J., Stress Averaging in PVDF Sensors For In-Plane Sinusoidal and Impact-Induced Stresses; *JSEN Nov. 2013 4444-4451*
- Kottapalli, A. G. P.**, see Asadnia, M., *JSEN Oct. 2013 3918-3925*
- Kourentzi, K.**, see Wang, S., *JSEN Nov. 2013 4534-4541*
- Kraft, M.**, see Alshehri, A., *JSEN March 2013 1003-1011*
- Krajewski, A. S.**, Magniez, K., Helmer, R. J. N., and Schrank, V., Piezoelectric Force Response of Novel 2D Textile Based PVDF Sensors; *JSEN Dec. 2013 4743-4748*
- Krapels, K.**, see Maschal, R. A., *JSEN Jan. 2013 371-378*
- Krej, M.**, see Dziuda, L., *JSEN Dec. 2013 4986-4991*
- Krishnamurthy, V.**, see Abolfath-Beygi, M., *JSEN April 2013 1265-1273*
- Krishnaswamy, N.**, Srinivas, T., Rao, G. M., and Varma, M. M., Analysis of Integrated Optofluidic Lab-on-a-Chip Sensor Based on Refractive Index and Absorbance Sensing; *JSEN May 2013 1730-1741*
- Krozer, V.**, see Lissauskas, A., *JSEN Jan. 2013 124-132*
- Kruger, N.**, see Moller, B., *JSEN Feb. 2013 870-878*
- Kshetrimayum, R.**, Effects of the Set Phase Position on the Response of a SAW Resonator Oscillator Based Chemical Sensor; *JSEN May 2013 1662-1668*
- Kudo, H.**, Yamashita, T., Miyajima, K., Arakawa, T., and Mitsubayashi, K., NADH-Fluorometric Biochemical Gas Sensor (Bio-Sniffer) for Evaluation of Indoor Air Quality; *JSEN Aug. 2013 2828-2833*
- Kudo, H.**, see Arakawa, T., *JSEN Aug. 2013 2842-2848*
- Kuhn, K.**, Pignatelli, E., and Schutze, A., Versatile Gas Detection System Based on Combined NDIR Transmission and Photoacoustic Absorption Measurements; *JSEN March 2013 934-940*
- Kumar, A.**, Kim, H., and Hancke, G. P., Environmental Monitoring Systems: A Review; *JSEN April 2013 1329-1339*
- Kumar, J.**, see Satapathi, S., *JSEN June 2013 2329-2333*
- Kumar, L.**, see Islam, T., *JSEN May 2013 1507-1513*
- Kumar, P.**, see Singh, K., *JSEN Dec. 2013 4912-4917*
- Kumar, P.**, Singh, B. K., and Rani, M., An Efficient Hybrid Classification Approach for Land Use/Land Cover Analysis in a Semi-Desert Area Using ETM+ and LISS-III Sensor; *JSEN June 2013 2161-2165*
- Kumar, R.**, Game Theoretic Pattern Analysis for Identification of Odors/Gases Using Response of a Poorly Selective Sensor Array; *JSEN March 2013 1110-1116*
- Kundu, O.**, see Samanta, N., *JSEN Dec. 2013 4716-4724*
- Kuo, Y.**, see Chen, J., *JSEN June 2013 2077-2083*

- Kurata, H.**, see Nakagawa, T., *JSEN March 2013 926-933*
Kurihara, Y., Kaburagi, T., and Watanabe, K., Development of a Non-Contact Sensing Method for Scratching Activity Measurement; *JSEN Sept. 2013 3325-3330*
Kusmic, C., see Menichetti, L., *JSEN June 2013 2341-2347*
Kutt, L., see Shafiq, M., *JSEN March 2013 1081-1091*

L

- Labate, D.**, see Morabito, F. C., *JSEN Sept. 2013 3255-3262*
Labate, D., Foresta, F. L., Morabito, G., Palamara, I., and Morabito, F. C., Entropic Measures of EEG Complexity in Alzheimer's Disease Through a Multivariate Multiscale Approach; *JSEN Sept. 2013 3284-3292*
Labate, D., Foresta, F. L., Occhiuto, G., Morabito, F. C., Lay-Ekuakille, A., and Vergallo, P., Empirical Mode Decomposition vs. Wavelet Decomposition for the Extraction of Respiratory Signal From Single-Channel ECG: A Comparison; *JSEN July 2013 2666-2674*
Lai, C.-S., see Huang, C.-H., *JSEN June 2013 2459-2465*
Lai, K. W. C., see Chen, H., *JSEN March 2013 949-958*
Lai, P. T., see Yu, J., *JSEN May 2013 1534-1540*
Lai, S., see Loi, A., *JSEN Dec. 2013 4764-4772*
Lai-Hao, W., and Lin, Y.-H., Metal-Silver Based Electrodes as Sensitive Surfaces for Electrochemical Detection of Thio-Heterocycles; *JSEN Sept. 2013 3442-3448*
Lam, K.-T., see Ji, L.-W., *JSEN Dec. 2013 4940-4943*
Lan, J., Li, J., Xiang, Y., Huang, T., Yin, Y., and Yang, J., Fast Automatic Target Detection System Based on a Visible Image Sensor and Ripple Algorithm; *JSEN July 2013 2720-2728*
Lanceros-Mendez, S., see Rocha, J. G., *JSEN July 2013 2603-2609*
Landrock, C., see Chuo, Y., *JSEN Oct. 2013 3982-3990*
Langfelder, G., see Jaramillo, G., *JSEN Aug. 2013 2993-3000*
Lanzoni, M., see Grossi, M., *JSEN May 2013 1775-1782*
Laracca, M., see Bernieri, A., *JSEN Nov. 2013 4513-4521*
Larin, K. V., see Wang, S., *JSEN Nov. 2013 4534-4541*
Larsson, A., see Vardoy, A.-S. B., *JSEN Oct. 2013 4049-4055*
Lasebae, A., see Le, A., *JSEN Oct. 2013 3685-3692*
Latt, W. T., see Tatinati, S., *JSEN Dec. 2013 4977-4985*
Lau, K. M., see Lu, X., *JSEN April 2013 1245-1251*
Laurinavicius, V., Razumiene, J., and Gureviciene, V., Bioelectrochemical Conversion of Urea on Carbon Black Electrode and Application; *JSEN June 2013 2208-2213*
Lay-Ekuakille, A., Vergallo, P., Caratelli, D., Conversano, F., Casciaro, S., and Trabacca, A., Multispectrum Approach in Quantitative EEG: Accuracy and Physical Effort; *JSEN Sept. 2013 3331-3340*
Lay-Ekuakille, A., see Bhateja, V., *JSEN Nov. 2013 4147-4156*
Lay-Ekuakille, A., see Labate, D., *JSEN July 2013 2666-2674*
Lay-Ekuakille, A., Morabito, F. C., Szu, H. H., and Lee, S.-Y., Guest Editorial Special Issue on Sensors and Sensing Systems for Neurophysiology; *JSEN Sept. 2013 3165*
Lay-Ekuakille, A., see Karthik, G. V. S., *JSEN Sept. 2013 3276-3283*
Lazzarini, R., see Grossi, M., *JSEN May 2013 1775-1782*
Le Rouzic, J., Vairac, P., Cavallier, B., and Cretin, B., W-Shaped Cantilevers for Scanning Force Microscopy; *JSEN April 2013 1340-1346*
Le, A., Loo, J., Lasebae, A., Vinel, A., Chen, Y., and Chai, M., The Impact of Rank Attack on Network Topology of Routing Protocol for Low-Power and Lossy Networks; *JSEN Oct. 2013 3685-3692*
Le, L. T., see Escarra, M. D., *JSEN June 2013 2348-2356*
Lear, K. L., see Erickson, T. A., *JSEN May 2013 1905-1913*
Lebastard, V., see Servagent, N., *JSEN May 2013 1865-1882*
Lee, C. M., see Lu, X., *JSEN April 2013 1245-1251*
Lee, C. Y., see You, K. Y., *JSEN July 2013 2563-2570*
Lee, G. Y.-H., see Ren, S., *JSEN Dec. 2013 4786-4795*
Lee, H., Iqbal, N., Chang, W., and Lee, S.-Y., A Calibration Method for Eye-Gaze Estimation Systems Based on 3D Geometrical Optics; *JSEN Sept. 2013 3219-3225*
Lee, H. K., see Ng, E. J., *JSEN March 2013 987-993*
Lee, H.-Y., see Jeong, H.-H., *JSEN Jan. 2013 351-358*
Lee, J.-J., see Seok, J.-H., *JSEN Dec. 2013 4796-4807*
Lee, J.-Y., see Seok, J.-H., *JSEN Dec. 2013 4796-4807*
Lee, S.-K., see Jeong, H.-H., *JSEN Jan. 2013 351-358*
Lee, S.-Y., see Lee, H., *JSEN Sept. 2013 3219-3225*
Lee, S.-Y., see Lay-Ekuakille, A., *JSEN Sept. 2013 3165*
Lee, T., see Wang, P., *JSEN Jan. 2013 180-185*
Lee, T.-H., and Abshire, P. A., Design and Characterization of High-Voltage NMOS Structures in a 0.5 μm Standard CMOS Process; *JSEN Aug. 2013 2906-2913*
Lee, T.-M., see Oh, S., *JSEN Oct. 2013 3957-3961*
Lee, W. K., see Sun, X., *JSEN Nov. 2013 4527-4533*
Lee, W.-C., see Chiu, N.-F., *JSEN Sept. 2013 3483-3489*
Lee, Y. K., Jo, J., and Shin, H. S., Development and Evaluation of a Wristwatch-Type Photoplethysmography Array Sensor Module; *JSEN May 2013 1459-1463*
Lefevre, E., see Shahosseini, I., *JSEN Jan. 2013 273-284*
Legrani, O., see Blampain, E., *JSEN Dec. 2013 4607-4612*
Legrani, O., Elmazria, O., Zhgoon, S., Pigeat, P., and Bartaszyte, A., Package-less AlN/ZnO/Si Structure for SAW Devices Applications; *JSEN Feb. 2013 487-491*
Lehtonen, M., see Shafiq, M., *JSEN March 2013 1081-1091*
Lei, Z., see Li, H., *JSEN May 2013 1959-1964*
Lekkala, J., see Rantanen, V., *JSEN Nov. 2013 4329-4338*
Lemarquand, G., see Shahosseini, I., *JSEN Jan. 2013 273-284*
Lenik, J., and Wardak, C., Studies on Influence of (2-Hydroxypropyl)- β -Cyclodextrin on Properties of a New Indomethacin Electrode; *JSEN Dec. 2013 4638-4647*
Leonardi, A. A., see Rosolem, J. B., *JSEN Nov. 2013 4113-4120*
Leonov, V., Thermoelectric Energy Harvesting of Human Body Heat for Wearable Sensors; *JSEN June 2013 2284-2291*
Leonov, V., van Schaijk, R., and Van Hoof, C., Charge Retention in a Patterned SiO₂/Si₃N₄ Electret; *JSEN Sept. 2013 3369-3376*
Lerch, R., see Ilg, J., *JSEN June 2013 2442-2449*
Leroy, P., see Rhouni, A., *JSEN Jan. 2013 159-166*
Leu, J.-S., see Yu, M.-C., *JSEN April 2013 1200-1206*
Leuenberger, D., see Mattana, G., *JSEN Oct. 2013 3901-3909*
Leung, H., see Cheng, C.-T., *JSEN May 2013 1622-1631*
Leung, H., see Wang, Y., *JSEN Oct. 2013 3527-3536*
Levanon, A., see Rozban, D., *JSEN Jan. 2013 139-145*
Lewis, E., see Mignani, A. G., *JSEN March 2013 889*
Lewis, E., see O'Connell, E., *JSEN July 2013 2619-2625*
Li, A., see Wang, Y., *JSEN Oct. 2013 3527-3536*
Li, B., Zhao, C., Zhang, H., Sun, X., and Zhou, Z., Characterization on Clustered Propagations of UWB Sensors in Vehicle Cabin: Measurement, Modeling and Evaluation; *JSEN April 2013 1288-1300*
Li, B., see Zhao, Q., *JSEN Oct. 2013 3575-3584*
Li, C., see Ran, Z., *JSEN May 2013 1988-1991*
Li, C.-S., see Pachkawade, V., *JSEN Aug. 2013 2882-2889*
Li, D., see Zhang, S., *JSEN Nov. 2013 4402-4412*
Li, F., see Jiang, D., *JSEN Nov. 2013 4556-4560*
Li, F., and Xiong, P., Practical Secure Communication for Integrating Wireless Sensor Networks Into the Internet of Things; *JSEN Oct. 2013 3677-3684*
Li, H., Cui, L., Lin, Z., Li, L., Wang, R., and Zhang, C., Signal Detection for Optical AC and DC Voltage Sensors Based on Pockels Effect; *JSEN June 2013 2245-2252*
Li, H., and Lei, Z., Calculation Research on Infrared Radiation Characteristic on Flying Projectile in Sky-Screen; *JSEN May 2013 1959-1964*
Li, H., Yi, C., and Li, Y., Battery-Friendly Packet Transmission Algorithms for Wireless Sensor Networks; *JSEN Oct. 2013 3548-3557*
Li, H., see Yang, F., *JSEN April 2013 1192-1199*
Li, J., see Su, H., *JSEN May 2013 1403-1412*
Li, J., Qian, Z., Sun, Y., Bai, R., and Zhu, J., Output Characteristics of Two-Dimensional Spin Valve Chip; *JSEN Dec. 2013 4944-4947*
Li, J., see Lan, J., *JSEN July 2013 2720-2728*
Li, L., see Satapathi, S., *JSEN June 2013 2329-2333*
Li, L., Zhang, N.-N., Ma, X.-L., Xu, C.-Z., Wei, H.-Y., Yang, X.-J., and Yang, X.-D., Effects of Al(III) and Nano-Al₁₃ on Aldehyde Dehydrogenase Activity on Reduced Graphene Oxide Modified Electrode; *JSEN Jan. 2013 314-320*
Li, L., see Zhang, G., *JSEN June 2013 2437-2441*
Li, L., see Li, H., *JSEN June 2013 2245-2252*
Li, M., see Jaramillo, G., *JSEN Aug. 2013 2993-3000*
Li, M., see Rouf, V. T., *JSEN Nov. 2013 4474-4481*
Li, M.-H., see Guo, Z.-Q., *JSEN Oct. 2013 3605-3615*
Li, M.-H., see Pachkawade, V., *JSEN Aug. 2013 2882-2889*
Li, N., see Li, X., *JSEN Dec. 2013 4749-4756*
Li, Q., Flash Flatness Measurement System Using Digital Dial Gauges; *JSEN June 2013 2051-2052*
Li, S., see He, J., *JSEN Oct. 2013 3826-3836*
Li, S., see Pandharipande, A., *JSEN Dec. 2013 4599-4606*

- Li, S.-S.**, see Pachkawade, V., *JSEN Aug. 2013 2882-2889*
- Li, T.**, Dong, X., Chan, C. C., Ni, K., Zhang, S., and Shum, P. P., Humidity Sensor With a PVA-Coated Photonic Crystal Fiber Interferometer; *JSEN June 2013 2214-2216*
- Li, W.**, see Liao, Y., *JSEN May 2013 1498-1506*
- Li, X.**, see Xu, Z., *JSEN June 2013 2139-2145*
- Li, X.**, Wang, Y., Xiao, T., Jiang, Q., and Yang, J., Effects of Mass Layer Stiffness and Imperfect Bonding on a Quartz Crystal Microbalance; *JSEN Feb. 2013 574-580*
- Li, X.**, see Liu, Z., *JSEN July 2013 2523-2534*
- Li, X.**, Chen, X., Yao, Y., Li, N., Chen, X., and Bi, X., Multi-Walled Carbon Nanotubes/Graphene Oxide Composites for Humidity Sensing; *JSEN Dec. 2013 4749-4756*
- Li, X. Y.**, see Mao, X., *JSEN Oct. 2013 3785-3792*
- Li, Y.**, see Li, H., *JSEN Oct. 2013 3548-3557*
- Li, Y.**, see Wang, G., *JSEN May 2013 1514-1521*
- Li, Y.**, see Du, L., *JSEN Dec. 2013 4648-4662*
- Li, Y.**, see Cao, B., *JSEN Oct. 2013 3585-3595*
- Li, Y.**, Jia, Z., Xie, S., and Liu, F., Dynamically Reconfigurable Hardware With a Novel Scheduling Strategy in Energy-Harvesting Sensor Networks; *JSEN May 2013 2032-2038*
- Li, Y.-C.**, see Jiang, J.-J., *JSEN Aug. 2013 3136-3143*
- Liang, M.**, see Tang, R., *JSEN Oct. 2013 3991-3998*
- Liang, Q.**, see Xiong, J., *JSEN Sept. 2013 3421-3429*
- Liang, X.**, Zhang, K., Lu, R., Lin, X., and Shen, X., EPS: An Efficient and Privacy-Preserving Service Searching Scheme for Smart Community; *JSEN Oct. 2013 3702-3710*
- Liao, B.**, see Lv, J., *JSEN April 2013 1207-1215*
- Liao, B.-Y.**, see Shih, H.-C., *JSEN July 2013 2683-2689*
- Liao, S.-H.**, Chen, W.-J., and Lu, M. S.-C., A CMOS MEMS Capacitive Flow Sensor for Respiratory Monitoring; *JSEN May 2013 1401-1402*
- Liao, W.**, see Xiong, J., *JSEN Sept. 2013 3421-3429*
- Liao, W.**, Liu, W., Zhu, Y., Tang, Y., Wang, B., and Xie, H., A Tip-Tilt-Piston Micromirror With Symmetrical Lateral-Shift-Free Piezoelectric Actuators; *JSEN Aug. 2013 2873-2881*
- Liao, Y.**, Qi, H., and Li, W., Load-Balanced Clustering Algorithm With Distributed Self-Organization for Wireless Sensor Networks; *JSEN May 2013 1498-1506*
- Liao, Y.-C.**, see Shiao, C.-C., *JSEN Oct. 2013 4038-4044*
- Liao, Y.-H.**, see Chou, J.-C., *JSEN Nov. 2013 4180-4187*
- Liaw, S.-K.**, see Chen, N.-K., *JSEN Sept. 2013 3437-3441*
- Liebe, C. C.**, and Coste, K., Distance Measurement Utilizing Image-Based Triangulation; *JSEN Jan. 2013 234-244*
- Lightstone, J. M.**, see Mah, M. L., *JSEN May 2013 1742-1747*
- Lim, J.**, see Oh, S., *JSEN Oct. 2013 3957-3961*
- Lim, K.-S.**, see Yang, H., *JSEN July 2013 2581-2585*
- Lim, K.-S.**, Chiam, Y.-S., Phang, S.-W., Chong, W.-Y., Pua, C.-H., Zulkifli, A. Z., Ganesan, I., Harun, S. W., and Ahmad, H., A Polyaniline-Coated Integrated Microfiber Resonator for UV Detection; *JSEN May 2013 2020-2025*
- Lim, Y. L.**, see Valavanis, A., *JSEN Jan. 2013 37-43*
- Lin, C.-K.**, and Kokkinos, T., Cross-Layer Solutions for Extended-Range Wireless Sensor Networks; *JSEN March 2013 1044-1054*
- Lin, C.-Y.**, see Chiou, J.-C., *JSEN June 2013 2466-2473*
- Lin, F.-Y.**, see Tsao, C.-C., *JSEN July 2013 2636-2642*
- Lin, H.**, see Dong, H., *JSEN Jan. 2013 186-189*
- Lin, K.-W.**, see Hsu, C.-S., *JSEN June 2013 2299-2304*
- Lin, N.**, see Liu, H.-B., *JSEN May 2013 1914-1920*
- Lin, S.-H.**, see Chuang, K.-C., *JSEN Jan. 2013 389-399*
- Lin, T.-Y.**, see Chen, R., *JSEN Jan. 2013 24-30*
- Lin, X.**, see Liang, X., *JSEN Oct. 2013 3702-3710*
- Lin, Y.-H.**, see Lai-Hao, W., *JSEN Sept. 2013 3442-3448*
- Lin, Y.-T.**, see Huang, C.-H., *JSEN June 2013 2459-2465*
- Lin, Y.-W.**, see Chen, Y.-S., *JSEN Feb. 2013 737-749*
- Lin, Z.**, see Li, H., *JSEN June 2013 2245-2252*
- Lin, Z.-D.**, Hsiao, C.-H., Young, S.-J., Huang, C.-S., Chang, S.-J., and Wang, S.-B., Carbon Nanotubes With Adsorbed Au for Sensing Gas; *JSEN June 2013 2423-2427*
- Linfield, E. H.**, see Valavanis, A., *JSEN Jan. 2013 37-43*
- Liou, J.-K.**, see Hsu, C.-S., *JSEN May 2013 1787-1793*
- Liou, J.-W.**, see Tsao, C.-C., *JSEN July 2013 2636-2642*
- Liou, J.-Y.**, see Chiang, C.-T., *JSEN Dec. 2013 4955-4961*
- Lisauskas, A.**, Boppel, S., Mundt, M., Krozer, V., and Roskos, H. G., Subharmonic Mixing With Field-Effect Transistors: Theory and Experiment at 639 GHz High Above f_T ; *JSEN Jan. 2013 124-132*
- Litvak, B.**, see Kapilevich, B., *JSEN Nov. 2013 4224-4228*
- Liu, B.**, see Rajan, G., *JSEN May 2013 1794-1800*
- Liu, B.**, see Wu, Z., *JSEN Feb. 2013 777-782*
- Liu, C.**, see Chen, B., *JSEN April 2013 1307-1314*
- Liu, C.**, see Chen, B., *JSEN Nov. 2013 4212-4219*
- Liu, C.**, see Zhao, S., *JSEN Dec. 2013 4613-4620*
- Liu, C. H.**, Fan, J., Hui, P., Crowcroft, J., and Ding, G., QoI-Aware Energy-Efficient Participatory Crowdsourcing; *JSEN Oct. 2013 3742-3753*
- Liu, C. H.**, see Wu, Y. L., *JSEN June 2013 2368-2373*
- Liu, C. H.**, see Wu, D., *JSEN Oct. 2013 3596-3604*
- Liu, D.**, see Wu, H., *JSEN Dec. 2013 4897-4903*
- Liu, D.**, see Xu, Z., *JSEN June 2013 2139-2145*
- Liu, F.**, see Li, Y., *JSEN May 2013 2032-2038*
- Liu, F.**, see Ye, Z., *JSEN May 2013 1425-1433*
- Liu, F.**, and Hossein-Zadeh, M., Mass Sensing With Optomechanical Oscillation; *JSEN Jan. 2013 146-147*
- Liu, G.**, see Romyantsev, S., *JSEN Aug. 2013 2818-2822*
- Liu, H.**, see Ju, Z., *JSEN Sept. 2013 3302-3311*
- Liu, H.**, see Du, J., *JSEN Dec. 2013 4690-4701*
- Liu, H.**, see Du, L., *JSEN Dec. 2013 4648-4662*
- Liu, H.**, see Zhang, T., *JSEN Feb. 2013 510-518*
- Liu, H.**, see Wu, H., *JSEN Dec. 2013 4897-4903*
- Liu, H.-B.**, Lin, N., Pan, S.-S., Miao, J., and Norford, L. K., High Sensitivity, Miniature, Full 2-D Anemometer Based on MEMS Hot-Film Sensors; *JSEN May 2013 1914-1920*
- Liu, H.-C.**, Huang, W.-C., Chen, Y.-J., Lu, C.-C., and Huang, J.-T., Corrections to "An electromechanical system based on carbon nanotube sensors to detect apnea" [Jul 13 2737-2741]; *JSEN Dec. 2013 4992*
- Liu, H.-C.**, Huang, W.-C., Chen, Y.-J., Lu, C.-C., and Huang, J.-T., An Electro-mechanical System Based on Carbon Nanotube Sensors to Detect Apnea; *JSEN July 2013 2737-2741*
- Liu, J.**, see Xiong, J., *JSEN Sept. 2013 3421-3429*
- Liu, J.**, see Zhang, L., *JSEN Oct. 2013 3775-3784*
- Liu, L.**, Zhang, X., and Ma, H., Percolation Theory-Based Exposure-Path Prevention for Wireless Sensor Networks Coverage in Internet of Things; *JSEN Oct. 2013 3625-3636*
- Liu, M.**, see Tong, L., *JSEN May 2013 1849-1856*
- Liu, M.**, see Lo, C., *JSEN May 2013 2009-2019*
- Liu, Q.**, see Shao, M., *JSEN May 2013 2026-2031*
- Liu, S.**, see Tsai, T.-Y., *JSEN Dec. 2013 4891-4896*
- Liu, T.**, see Zhang, Y., *JSEN May 2013 1756-1765*
- Liu, T.-S.**, see Tsao, C.-C., *JSEN July 2013 2636-2642*
- Liu, W.**, see Liao, W., *JSEN Aug. 2013 2873-2881*
- Liu, W.-C.**, see Hsu, C.-S., *JSEN June 2013 2299-2304*
- Liu, W.-C.**, see Hsu, C.-S., *JSEN May 2013 1787-1793*
- Liu, X.**, Chen, H., Huang, Q.-A., and Young, D. J., MEMS-Based Intraoperative Monitoring System for Improved Safety in Lumbar Surgery; *JSEN May 2013 1541-1548*
- Liu, X.**, Cao, X., Gong, X., and Ma, Z., Query-Driven Tracing for a Multiuser Scenario in Wireless Sensor Networks; *JSEN Aug. 2013 3016-3024*
- Liu, X. H.**, see Wang, Z. L., *JSEN Nov. 2013 4271-4278*
- Liu, X. Z.**, see Wang, Z. L., *JSEN Nov. 2013 4271-4278*
- Liu, Y.**, see Wang, Y., *JSEN Oct. 2013 3527-3536*
- Liu, Y.**, see Xiang, C., *JSEN Oct. 2013 3721-3732*
- Liu, Y.**, Chen, C.-L., Zhang, Y., Sonkusale, S. R., Wang, M. L., and Dokmeci, M. R., SWNT Based Nanosensors for Wireless Detection of Explosives and Chemical Warfare Agents; *JSEN Jan. 2013 202-210*
- Liu, Y.**, Chen, Y.-P., Song, H., and Zhang, G., Characteristics of an Optical Fiber Hydrogen Gas Sensor Based on a Palladium and Yttrium Alloy Thin Film; *JSEN July 2013 2699-2704*
- Liu, Y.**, see Zhang, Z., *JSEN June 2013 2109-2114*
- Liu, Y. N.**, see Wang, Z. L., *JSEN Nov. 2013 4271-4278*
- Liu, Z.**, Wei, X., and Li, X., Aliasing-Free Moving Target Detection in Random Pulse Repetition Interval Radar Based on Compressed Sensing; *JSEN July 2013 2523-2534*
- Liu, Z.**, see Jin, X., *JSEN Jan. 2013 167-171*
- Liu, Z.**, and Mrad, N., Validation of Strain Gauges for Structural Health Monitoring With Bayesian Belief Networks; *JSEN Jan. 2013 400-407*
- Liu, Z.-H.**, Pan, C.-T., Ou, Z.-Y., and Wang, W.-C., Piezoelectricity of Well-Aligned Electrospun Fiber Composites; *JSEN Oct. 2013 4098-4103*

- Lo, C., Lynch, J. P., and Liu, M.,** Distributed Reference-Free Fault Detection Method for Autonomous Wireless Sensor Networks; *JSEN May 2013 2009-2019*
- Loghini, F.,** see Abdellah, A., *JSEN Oct. 2013 4014-4021*
- Loh, K. J.,** see Loyola, B. R., *JSEN June 2013 2357-2367*
- Loi, A.,** see Seminara, L., *JSEN Oct. 2013 4022-4029*
- Loi, A., Basirico, L., Cosseddu, P., Lai, S., Barbaro, M., Bonfiglio, A., Maiolino, P., Baglini, E., Denei, S., Mastrogiovanni, F., and Cannata, G.,** Organic Bendable and Stretchable Field Effect Devices for Sensing Applications; *JSEN Dec. 2013 4764-4772*
- Loichate, M. D.,** see Rosolem, J. B., *JSEN Nov. 2013 4113-4120*
- Lokman, A.,** see Batumalay, M., *JSEN Dec. 2013 4702-4705*
- Lombardi, M.,** see Menichetti, L., *JSEN June 2013 2341-2347*
- Loo, J.,** see Le, A., *JSEN Oct. 2013 3685-3692*
- Lopez-Amo, M.,** see Rota-Rodrigo, S., *JSEN June 2013 2279-2283*
- Lopez-Higuera, J. M.,** see Rota-Rodrigo, S., *JSEN June 2013 2279-2283*
- Lopez-Vallejo, M.,** see Ituero, P., *JSEN Feb. 2013 442-443*
- Lorenz, P.,** see Caldeira, J. M. L. P., *JSEN Nov. 2013 4339-4348*
- Lorussi, F., Galatolo, S., Bartalesi, R., and De Rossi, D.,** Modeling and Characterization of Extensible Wearable Textile-Based Electrogoniometers; *JSEN Jan. 2013 217-228*
- Losito, R.,** see Danisi, A., *JSEN Dec. 2013 4663-4670*
- Losito, R.,** see Masi, A., *JSEN March 2013 941-948*
- Low, K. S.,** see Qian, X., *JSEN Dec. 2013 4931-4939*
- Loyola, B. R., Saponara, V. L., Loh, K. J., Briggs, T. M., O'Bryan, G., and Skinner, J. L.,** Spatial Sensing Using Electrical Impedance Tomography; *JSEN June 2013 2357-2367*
- Lu, C.,** see Cho, L.-H., *JSEN Aug. 2013 3073-3078*
- Lu, C.-C.,** see Liu, H.-C., *JSEN July 2013 2737-2741*
- Lu, C.-C.,** see Liu, H.-C., *JSEN Dec. 2013 4992*
- Lu, H.,** see Wu, T.-C., *JSEN May 2013 1549-1553*
- Lu, J., Nakano, Y., Takagi, H., and Maeda, R.,** High-Efficient Chip to Wafer Self-Alignment and Bonding Applicable to MEMS-IC Flexible Integration; *JSEN Feb. 2013 651-656*
- Lu, J.,** see Rosental, A., *JSEN May 2013 1648-1655*
- Lu, L., Zhang, W., Yang, B., Zhou, J., Gui, H., and Yu, B.,** Dual-Channel Self-Mixing Vibration Measurement System in a Linear Cavity Fiber Laser; *JSEN Nov. 2013 4387-4392*
- Lu, M.,** see Tan, Y., *JSEN May 2013 1972-1978*
- Lu, M. S.-C.,** see Liao, S.-H., *JSEN May 2013 1401-1402*
- Lu, Q.,** see Wang, C., *JSEN Aug. 2013 3012-3013*
- Lu, R.,** see Liang, X., *JSEN Oct. 2013 3702-3710*
- Lu, X., Lee, C. M., Wu, S. Y., Ho, H. P., and Lau, K. M.,** GaN-Based S_0 -Wave Sensors on Silicon for Chemical and Biological Sensing in Liquid Environments; *JSEN April 2013 1245-1251*
- Lu, Y.,** see Wang, J., *JSEN May 2013 1721-1724*
- Lu, Y.-W.,** see Shiau, C.-C., *JSEN Oct. 2013 4038-4044*
- Lubecke, V.,** see Massagram, W., *JSEN Sept. 2013 3397-3404*
- Lubecke, V. M.,** see Mostafanezhad, I., *JSEN May 2013 1897-1904*
- Lubecke, V. M.,** see Hafner, N., *JSEN Jan. 2013 408-414*
- Lueth, T. C.,** see Dai, H., *JSEN Sept. 2013 3193-3202*
- Lugli, P.,** see Abdellah, A., *JSEN Oct. 2013 4014-4021*
- Luiso, M.,** see Morello, R., *JSEN Sept. 2013 3203-3210*
- Lukowicz, P.,** see Cheng, J., *JSEN Oct. 2013 3935-3947*
- Lumelsky, V. J.,** see Dahiya, R. S., *JSEN Nov. 2013 4121-4138*
- Lundquist, E. J., Nagel, J. R., Wu, S., Jones, B., and Furse, C.,** Advanced Forward Methods for Complex Wire Fault Modeling; *JSEN April 2013 1172-1179*
- Luo, D., Ibrahim, Z., Yang, H., and Ismail, Z.,** Use of Tapered Optical Fiber Sensors in Study of the Hydration Process of Cement Paste; *JSEN Sept. 2013 3415-3420*
- Luo, S.,** see Wang, Z. L., *JSEN Nov. 2013 4271-4278*
- Luo, Y.,** see Rajan, G., *JSEN May 2013 1794-1800*
- Lv, G. P.,** see Wang, Z. L., *JSEN Nov. 2013 4271-4278*
- Lv, J., Zhong, H., Zhou, Y., Liao, B., Wang, J., and Jiang, Y.,** Model-Based Low-Noise Readout Integrated Circuit Design for Uncooled Microbolometers; *JSEN April 2013 1207-1215*
- Lvovska, M. I.,** see Globus, T., *JSEN Jan. 2013 72-79*
- Lynch, J. P.,** see Lo, C., *JSEN May 2013 2009-2019*
- Ma, C.-C.,** see Chuang, K.-C., *JSEN Jan. 2013 389-399*
- Ma, H.,** see Liu, L., *JSEN Oct. 2013 3625-3636*
- Ma, J., and Sun, S.,** Centralized Fusion Estimators for Multisensor Systems With Random Sensor Delays, Multiple Packet Dropouts and Uncertain Observations; *JSEN April 2013 1228-1235*
- Ma, T.,** see Zhang, Z., *JSEN June 2013 2109-2114*
- Ma, X.-L.,** see Li, L., *JSEN Jan. 2013 314-320*
- Ma, Y.,** see Rong, Q., *JSEN Nov. 2013 4356-4360*
- Ma, Y.,** see Wang, R., *JSEN May 2013 1766-1770*
- Ma, Y.,** see Rong, Q., *JSEN May 2013 1473-1477*
- Ma, Z.,** see Liu, X., *JSEN Aug. 2013 3016-3024*
- Macleod, C. N., Pierce, S. G., Sullivan, J. C., Pipe, A. G., Dobie, G., and Summan, R.,** Active Whisking-Based Remotely Deployable NDE Sensor; *JSEN Nov. 2013 4320-4328*
- MacPherson, W. N.,** see Maier, R. R. J., *JSEN March 2013 969-979*
- Madhukumar, A. S.,** see Zhong, X., *JSEN Feb. 2013 589-600*
- Madni, A. M.,** see Huang, B., *JSEN April 2013 1371-1379*
- Maeda, R.,** see Lu, J., *JSEN Feb. 2013 651-656*
- Maggiali, M.,** see Maiolino, P., *JSEN Oct. 2013 3910-3917*
- Magniez, K.,** see Krajewski, A. S., *JSEN Dec. 2013 4743-4748*
- Magno, M.,** see Jelicic, V., *JSEN Jan. 2013 328-338*
- Mah, M. L., Armstrong, P. R., Kim, S. S., Carney, J. R., Lightstone, J. M., and Talghader, J. J.,** Sensing the Thermal History of High-Explosive Detonations Using Thermoluminescent Microparticles; *JSEN May 2013 1742-1747*
- Mahadeva, S. K., and Kim, J.,** Porous Tin-Oxide-Coated Regenerated Cellulose as Disposable and Low-Cost Alternative Transducer for Urea Detection; *JSEN June 2013 2223-2228*
- Mahajan, S.,** see Anand, A., *JSEN Feb. 2013 723-727*
- Mai-Khanh, N. N., Iizuka, T., Yamada, M., Morita, O., and Asada, K.,** An Integrated High-Precision Probe System in 0.18- μm CMOS for Near-Field Magnetic Measurements on Cryptographic LSIs; *JSEN July 2013 2675-2682*
- Maier, R. R. J., MacPherson, W. N., Barton, J. S., Carne, M., Swan, M., Sharma, J. N., Futter, S. K., Knox, D. A., Jones, B. J. S., and McCulloch, S.,** Embedded Fiber Optic Sensors Within Additive Layer Manufactured Components; *JSEN March 2013 969-979*
- Maiolino, P.,** see Loi, A., *JSEN Dec. 2013 4764-4772*
- Maiolino, P., Maggiali, M., Cannata, G., Metta, G., and Natale, L.,** A Flexible and Robust Large Scale Capacitive Tactile System for Robots; *JSEN Oct. 2013 3910-3917*
- Makikawa, M.,** see Ho, V. A., *JSEN Oct. 2013 4065-4080*
- Makinwa, K. A. A.,** see Aita, A. L., *JSEN May 2013 1840-1848*
- Makrogiannis, S. K.,** see Bourbakis, N., *JSEN July 2013 2535-2547*
- Malavenda, C. S.,** see Martalo, M., *JSEN Feb. 2013 501-509*
- Mamun, Q.,** A Tessellation-Based Localized Chain Construction Scheme for Chain-Oriented Sensor Networks; *JSEN July 2013 2648-2658*
- Manapuram, R. K.,** see Wang, S., *JSEN Nov. 2013 4534-4541*
- Mandal, A. K.,** see Ghosh, A., *JSEN April 2013 1347-1354*
- Mandel, I., Gollub, J. N., Bendoyim, I., and Crouse, D. T.,** Theory and Design of a Novel Integrated Polarimetric Sensor Utilizing a Light Sorting Metamaterial Grating; *JSEN Feb. 2013 618-625*
- Mandic, D. P.,** see Mostafanezhad, I., *JSEN May 2013 1897-1904*
- Manna, C.,** see Arpaia, P., *JSEN Jan. 2013 148-158*
- Mantenuto, P.,** see De Marcellis, A., *JSEN July 2013 2792-2798*
- Mantysalo, M.,** see Xie, L., *JSEN Oct. 2013 3948-3956*
- Manyala, J. O., Fritz, T., and Atashbar, M. Z.,** Gearbox Speed Sensor Design and Performance Optimization; *JSEN Feb. 2013 629-636*
- Manzoni, L.,** see Menichetti, L., *JSEN June 2013 2341-2347*
- Mao, X., Tang, S., Wang, J., and Li, X. Y.,** iLight: Device-Free Passive Tracking Using Wireless Sensor Networks; *JSEN Oct. 2013 3785-3792*
- Mao, X.,** see Wang, C., *JSEN Oct. 2013 3505-3510*
- Marasso, S. L.,** see Canavese, G., *JSEN June 2013 2237-2244*
- Marconnet, P.,** see Rasolofondraibe, L., *JSEN Aug. 2013 3067-3072*
- Marechal, A.,** see Saeidi, N., *JSEN Nov. 2013 4487-4495*
- Marinov, O.,** see Campos, F. S., *JSEN May 2013 1554-1563*
- Martalo, M., Ferrari, G., and Malavenda, C. S.,** Low-Complexity Hybrid Time-Frequency Audio Signal Pattern Detection; *JSEN Feb. 2013 501-509*
- Martin, H., Millan, E. S., Peris-Lopez, P., and Tapiador, J. E.,** Efficient ASIC Implementation and Analysis of Two EPC-C1G2 RFID Authentication Protocols; *JSEN Oct. 2013 3537-3547*
- Martincic, E.,** see Shahosseini, I., *JSEN Jan. 2013 273-284*
- Martinez, P. A.,** see Azcona, C., *JSEN June 2013 2382-2390*

M

M'Closkey, R. T., see Kim, D., *JSEN Nov. 2013 4361-4374*

+ Check author entry for coauthors

- Marton, G.**, Fekete, Z., Fiath, R., Baracska, P., Ulbert, I., Juhasz, G., Battistig, G., and Pongracz, A., In Vivo Measurements With Robust Silicon-Based Multielectrode Arrays With Extreme Shaft Lengths; *JSEN Sept. 2013* 3263-3269
- Mascaro, S. A.**, see Abu-Khalaf, J. M., *JSEN Feb. 2013* 807-815
- Maschal, R. A.**, Young, S. S., Reynolds, J. P., Krapels, K., Fanning, J., and Corbin, T., New Image Quality Assessment Algorithms for CFA Demosaicing; *JSEN Jan. 2013* 371-378
- Masi, A.**, see Danisi, A., *JSEN Dec. 2013* 4663-4670
- Masi, A.**, Danisi, A., Losito, R., and Perriard, Y., Characterization of Magnetic Immunity of an Ironless Inductive Position Sensor; *JSEN March 2013* 941-948
- Mason, A. J.**, see Mu, X., *JSEN Oct. 2013* 3976-3981
- Massagam, W.**, Hafner, N., Lubecke, V., and Boric-Lubecke, O., Tidal Volume Measurement Through Non-Contact Doppler Radar With DC Reconstruction; *JSEN Sept. 2013* 3397-3404
- Massari, N.**, see Cottini, N., *JSEN Sept. 2013* 3341-3342
- Massaro, A.**, Troia, M., Spano, F., and Carbone, G., Friction in Totally Optical Robotic Finger Oriented on Shear Force Measurement; *JSEN Feb. 2013* 548-555
- Mastrangelo, C. H.**, see Guo, Q., *JSEN Nov. 2013* 4496-4505
- Mastrogianni, F.**, see Loi, A., *JSEN Dec. 2013* 4764-4772
- Mathew, J.**, Semenova, Y., and Farrell, G., Fiber Optic Hybrid Device for Simultaneous Measurement of Humidity and Temperature; *JSEN May 2013* 1632-1636
- Matias, I. R.**, see Sanchez, P., *JSEN April 2013* 1167-1171
- Matsumoto, K.**, see Tanaka, Y., *JSEN Nov. 2013* 4452-4458
- Matsumoto, M.**, see Arifuzzaman, M., *JSEN June 2013* 2391-2399
- Matsumoto, Y.**, see Ishigaki, Y., *JSEN Oct. 2013* 3520-3526
- Mattana, G.**, Kinkeldei, T., Leuenberger, D., Ataman, C., Ruan, J. J., Molina-Lopez, F., Quintero, A. V., Nisato, G., Troster, G., Briand, D., and de Rooij, N. F., Woven Temperature and Humidity Sensors on Flexible Plastic Substrates for E-Textile Applications; *JSEN Oct. 2013* 3901-3909
- Matteuzzi, D.**, see Grossi, M., *JSEN May 2013* 1775-1782
- Mattoso, L. H. C.**, see Oliveira, J. E., *JSEN Feb. 2013* 759-766
- Maupin, P.**, see Cheng, C.-T., *JSEN May 2013* 1622-1631
- Maziarz, W.**, see Rydosz, A., *JSEN May 2013* 1889-1896
- Mazumder, P.**, see Song, K., *JSEN Sept. 2013* 3377-3385
- Mazzeo, B.**, see Ness, S. J., *JSEN March 2013* 959-968
- McCombe, B. D.**, see Chen, R., *JSEN Jan. 2013* 24-30
- McCulloch, S.**, see Maier, R. R. J., *JSEN March 2013* 969-979
- McGregor, A.**, see Bergmann, J. H. M., *JSEN Oct. 2013* 4090-4097
- McKerrow, P. J.**, see Antoun, S. M., *JSEN Dec. 2013* 4671-4681
- McMillan, M.**, see Alfeeli, B., *JSEN Nov. 2013* 4312-4319
- Medeiros, E. S.**, see Oliveira, J. E., *JSEN Feb. 2013* 759-766
- Medrano, N.**, see Azcona, C., *JSEN June 2013* 2382-2390
- Meen, T.-H.**, see Ji, L.-W., *JSEN Dec. 2013* 4940-4943
- Mehdi, I.**, see Choi, J. K., *JSEN Jan. 2013* 80-88
- Mehmood, A.**, see Damarla, T., *JSEN MAY 2013* 1464-1472
- Mehrkens, J. H.**, see Dai, H., *JSEN Sept. 2013* 3193-3202
- Meijer, G. C. M.**, see Aita, A. L., *JSEN May 2013* 1840-1848
- Meitei, N. C.**, see Singh, H. K., *JSEN Feb. 2013* 801-806
- Melamud, R.**, see Ng, E. J., *JSEN March 2013* 987-993
- Menard, D.**, see Dufay, B., *JSEN Jan. 2013* 379-388
- Meng, H.**, see Xue, H., *JSEN Nov. 2013* 4220-4223
- Meng, M. Q.-H.**, see Hu, C., *JSEN Nov. 2013* 4569-4575
- Menichetti, L.**, Manzoni, L., Paduano, L., Flori, A., Kusmic, C., De Marchi, D., Casciaro, S., Conversano, F., Lombardi, M., Positano, V., and Arosio, D., Iron Oxide-Gold Core-Shell Nanoparticles as Multimodal Imaging Contrast Agent; *JSEN June 2013* 2341-2347
- Menini, P.**, see Contaret, T., *JSEN March 2013* 980-986
- Merkoci, A.**, see Placido, T., *JSEN Aug. 2013* 2834-2841
- Merkett, G. V.**, see Kazmierski, T. J., *JSEN Nov. 2013* 4393-4401
- Messner, S.**, see Kliche, K., *JSEN July 2013* 2626-2635
- Metta, G.**, see Seminara, L., *JSEN Oct. 2013* 4022-4029
- Metta, G.**, see Maiolino, P., *JSEN Oct. 2013* 3910-3917
- Metwally, I. A.**, Performance Improvement of Slow-Wave Rogowski Coils for High Impulse Current Measurement; *JSEN Feb. 2013* 538-547
- Meurville, E.**, see Carrara, S., *JSEN March 2013* 1018-1024
- Meziani, Y. M.**, see Watanabe, T., *JSEN Jan. 2013* 89-99
- Miao, J.**, see Liu, H.-B., *JSEN May 2013* 1914-1920
- Miao, J.**, see Asadnia, M., *JSEN Oct. 2013* 3918-3925
- Mignani, A. G.**, Cauwenberghs, G., Lewis, E., and Shum, P. P., Guest Editorial Special Issue on Selected Papers From the IEEE Sensors 2011 Conference; *JSEN March 2013* 889
- Mihailovic, P. M.**, Petricevic, S. J., and Radunovic, J. B., Compensation for Temperature-Dependence of the Faraday Effect by Optical Activity Temperature Shift; *JSEN Feb. 2013* 832-837
- Millan, E. S.**, see Martin, H., *JSEN Oct. 2013* 3537-3547
- Miller, G. A.**, see Cranch, G. A., *JSEN March 2013* 890-899
- Mimoun, B.**, Henneken, V., van der Horst, A., and Dekker, R., Flex-to-Rigid (F2R): A Generic Platform for the Fabrication and Assembly of Flexible Sensors for Minimally Invasive Instruments; *JSEN Oct. 2013* 3873-3882
- Mimoun, B.**, see van der Horst, A., *JSEN Oct. 2013* 3883-3891
- Minamide, H.**, see Watanabe, T., *JSEN Jan. 2013* 89-99
- Mini, S.**, and Pujari, A. K., Phase Transition Analysis of Target Coverage Problem in Wireless Sensor Networks; *JSEN July 2013* 2742-2749
- Mirasoli, M.**, see Caputo, D., *JSEN July 2013* 2595-2602
- Mirmohseni, A.**, Shojaei, M., and Hosseini, J., A Rapid and Cost Effective Method for Measurement of Cyclosporine; *JSEN Nov. 2013* 4542-4545
- Mishra, V. N.**, see Sunny, *JSEN Dec. 2013* 4924-4930
- Mishra, V. N.**, see Sunny, *JSEN Aug. 2013* 3039-3045
- Misra, M.**, see Bhateja, V., *JSEN Nov. 2013* 4147-4156
- Missous, M.**, Kostakis, I., and Saeedkia, D., Long Wavelength Low Temperature Grown GaAs and InP-Based Terahertz Photoconductors Devices; *JSEN Jan. 2013* 63-71
- Mitani, T.**, see Arakawa, T., *JSEN Aug. 2013* 2842-2848
- Mitatha, S.**, Sirawattananon, C., Ali, J., and Yupapin, P. P., Four Point Probe Micro-Optical Gyroscope With Self Calibration Control; *JSEN July 2013* 2705-2710
- Mitin, V.**, see Choi, J. K., *JSEN Jan. 2013* 80-88
- Mitsubayashi, K.**, see Arakawa, T., *JSEN Aug. 2013* 2842-2848
- Mitsubayashi, K.**, see Kudo, H., *JSEN Aug. 2013* 2828-2833
- Mittendorfer, P.**, see Dahiya, R. S., *JSEN Nov. 2013* 4121-4138
- Miyajima, K.**, see Arakawa, T., *JSEN Aug. 2013* 2842-2848
- Miyajima, K.**, see Kudo, H., *JSEN Aug. 2013* 2828-2833
- Mizukami, T.**, see Che, D.-C., *JSEN April 2013* 1223-1227
- Mlsna, T. E.**, see Duy, W. S. D., *JSEN Dec. 2013* 4780-4785
- Mohamadabadi, K.**, Coillot, C., and Hillion, M., New Compensation Method for Cross-Axis Effect for Three-Axis AMR Sensors; *JSEN April 2013* 1355-1362
- Mohamadabadi, K.**, Jeandet, A., Hillion, M., and Coillot, C., Autocalibration Method for Anisotropic Magnetoresistive Sensors Using Offset Coils; *JSEN Feb. 2013* 772-776
- Mohanasundaram, S. M.**, Pratap, R., and Ghosh, A., Cantilever Resonator With Integrated Actuation and Sensing Fabricated Using a Single Step Lithography; *JSEN Feb. 2013* 440-441
- Moholkar, A. V.**, see Shewale, P. S., *JSEN May 2013* 1992-1998
- Molina-Lopez, F.**, see Mattana, G., *JSEN Oct. 2013* 3901-3909
- Moller, B.**, Balslev, I., and Kruger, N., An Automatic Evaluation Procedure for 3-D Scanners in Robotics Applications; *JSEN Feb. 2013* 870-878
- Molnar, A.**, see Johnson, B., *JSEN Sept. 2013* 3211-3218
- Montazerzohori, M.**, see Ghaedi, M., *JSEN Jan. 2013* 321-327
- Montenero, G.**, see Arpaia, P., *JSEN Jan. 2013* 148-158
- Monti, G.**, see Congedo, F., *JSEN Sept. 2013* 3454-3461
- Monty, C. N.**, see Wujcik, E. K., *JSEN Sept. 2013* 3430-3436
- Moodie, D.**, see Alfeeli, B., *JSEN Nov. 2013* 4312-4319
- Moon, S.**, see Han, J.-H., *JSEN Aug. 2013* 3090-3097
- Morabito, F. C.**, see Labate, D., *JSEN July 2013* 2666-2674
- Morabito, F. C.**, see Labate, D., *JSEN Sept. 2013* 3284-3292
- Morabito, F. C.**, Labate, D., Bramanti, A., Foresta, F. L., Morabito, G., Palamara, I., and Szu, H. H., Enhanced Compressibility of EEG Signal in Alzheimer's Disease Patients; *JSEN Sept. 2013* 3255-3262
- Morabito, F. C.**, see Lay-Ekuakille, A., *JSEN Sept. 2013* 3165
- Morabito, G.**, see Morabito, F. C., *JSEN Sept. 2013* 3255-3262
- Morabito, G.**, see Labate, D., *JSEN Sept. 2013* 3284-3292
- Moradi, E.**, see Vena, A., *JSEN Dec. 2013* 4627-4637
- Moradi, M.**, and Sivbothaman, S., Strain Transfer Analysis of Surface-Bonded MEMS Strain Sensors; *JSEN Feb. 2013* 637-643
- Morales-Diaz, A.**, see Gutierrez-Martinez, C., *JSEN Nov. 2013* 4196-4203
- Morello, R.**, see Fabbiano, L., *JSEN Sept. 2013* 3175-3181
- Morello, R.**, De Capua, C., Fabbiano, L., Vacca, G., and Luiso, M., Ocular Biometric Measurements to Diagnose Neurological Disorders Due to Wilson Disease; *JSEN Sept. 2013* 3203-3210
- Morita, O.**, see Mai-Khanh, N. N., *JSEN July 2013* 2675-2682
- Morshed, A.**, see Dutta, R., *JSEN Oct. 2013* 3806-3815

- Mostafa, S.**, see Tulip, F. S., *JSEN Feb. 2013 438-439*
- Mostafanezhad, I.**, Yavari, E., Boric-Lubecke, O., Lubecke, V. M., and Mandic, D. P., Cancellation of Unwanted Doppler Radar Sensor Motion Using Empirical Mode Decomposition; *JSEN May 2013 1897-1904*
- Mostofi, Y.**, see Gonzalez-Ruiz, A., *JSEN July 2013 2571-2580*
- Motai, Y.**, see Biswas, A. K., *JSEN Nov. 2013 4423-4431*
- Motayed, A.**, see Aluri, G. S., *JSEN May 2013 1883-1888*
- Motto, P.**, see Canavese, G., *JSEN June 2013 2237-2244*
- Moulin, J.**, see Shahosseini, I., *JSEN Jan. 2013 273-284*
- Mouret, G.**, Guinet, M., Cuisset, A., Croize, L., Eliet, S., Bocquet, R., and Hindle, F., Versatile Sub-THz Spectrometer for Trace Gas Analysis; *JSEN Jan. 2013 133-138*
- Moyer, A. M.**, see Globus, T., *JSEN Jan. 2013 72-79*
- Mrad, N.**, see Liu, Z., *JSEN Jan. 2013 400-407*
- Mu, X.**, Wang, Z., Zeng, X., and Mason, A. J., A Robust Flexible Electrochemical Gas Sensor Using Room Temperature Ionic Liquid; *JSEN Oct. 2013 3976-3981*
- Mueller, J.**, see Rydosz, A., *JSEN May 2013 1889-1896*
- Mueller, J. G.**, and Pratt, T. G., A Radio Frequency Polarimetric Sensor for Rotating Machine Analysis; *JSEN Dec. 2013 4866-4873*
- Muhammad, M. Z.**, see Harun, S. W., *JSEN Jan. 2013 348-350*
- Mukhopadhyay, S. C.**, see Kelly, S. D. T., *JSEN Oct. 2013 3846-3853*
- Mun, S. C.**, see Chen, Y., *JSEN Nov. 2013 4157-4162*
- Mundt, M.**, see Lissauskas, A., *JSEN Jan. 2013 124-132*
- Munoz-Ferreras, J.-M.**, and Gomez-Garcia, R., A Deramping-Based Multi-band Radar Sensor Concept With Enhanced ISAR Capabilities; *JSEN Sept. 2013 3361-3368*
- Munshi, S.**, see Sarkar, A. R., *JSEN Dec. 2013 4621-4626*
- Muraviev, A.**, see Gutin, A., *JSEN Jan. 2013 55-62*
- Muravjov, A.**, see Choi, J. K., *JSEN Jan. 2013 80-88*
- Muttalib, F. A.**, see Rahman, H. A., *JSEN Jan. 2013 294-298*
- Myers-Ward, R. L.**, see Nagareddy, V. K., *JSEN Aug. 2013 2810-2817*
- Myllyla, R.**, see Jung, S.-J., *JSEN May 2013 1419-1424*
- Myllymaki, S.**, see Huttunen, A., *JSEN Feb. 2013 849-853*

N

- Nadeau, S. C.**, see Duy, W. S. D., *JSEN Dec. 2013 4780-4785*
- Naftaly, M.**, Metrology Issues and Solutions in THz Time-Domain Spectroscopy: Noise, Errors, Calibration; *JSEN Jan. 2013 8-17*
- Nagano, I.**, see Ozaki, M., *JSEN Feb. 2013 644-650*
- Nagareddy, V. K.**, Chan, H. K., Hernandez, S. C., Wheeler, V. D., Nyakiti, L. O., Myers-Ward, R. L., Eddy, C. R., Goss, J. P., Wright, N. G., Walton, S. G., Gaskill, D. K., and Horsfall, A. B., Improved Chemical Detection and Ultra-Fast Recovery Using Oxygen Functionalized Epitaxial Graphene Sensors; *JSEN Aug. 2013 2810-2817*
- Nagatomo, K.**, see Tanaka, Y., *JSEN Nov. 2013 4452-4458*
- Nagatsuma, T.**, see Hisatake, S., *JSEN Jan. 2013 31-36*
- Nagel, J. R.**, see Lundquist, E. J., *JSEN April 2013 1172-1179*
- Naito, T.**, Konno, N., Tokunaga, T., and Itoh, T., Doping Characteristics of Polycrystalline Silicon Deposited by Chemical Transport at Atmospheric Pressure and its Application to MEMS Sensor; *JSEN Aug. 2013 2899-2905*
- Najimi, M.**, Ebrahimzadeh, A., Andargoli, S. M.H., and Fallahi, A., A Novel Sensing Nodes and Decision Node Selection Method for Energy Efficiency of Cooperative Spectrum Sensing in Cognitive Sensor Networks; *JSEN May 2013 1610-1621*
- Nakagawa, T.**, Hyodo, A., Kogo, K., Kurata, H., Osada, K., and Oho, S., Contactless Liquid-Level Measurement With Frequency-Modulated Millimeter Wave Through Opaque Container; *JSEN March 2013 926-933*
- Nakamoto, T.**, and Nihei, Y., Improvement of Odor Approximation Using Mass Spectrometry; *JSEN Nov. 2013 4305-4311*
- Nakamoto, T.**, see Ariyakul, Y., *JSEN Dec. 2013 4918-4923*
- Nakano, Y.**, see Lu, J., *JSEN Feb. 2013 651-656*
- Nakashima, A.**, see Kimura, M., *JSEN May 2013 1771-1774*
- Nanver, L. K.**, see Shi, L., *JSEN May 2013 1699-1707*
- Narayanan, S.**, see Alfeeli, B., *JSEN Nov. 2013 4312-4319*
- Narita, Y.**, see Fukuda, Y., *JSEN Dec. 2013 4725-4732*
- Nascetti, A.**, see Caputo, D., *JSEN July 2013 2595-2602*
- Natale, L.**, see Maiolino, P., *JSEN Oct. 2013 3910-3917*
- Nath, P.**, Neog, S. K., Biswas, R., and Choudhury, A., All Fiber-Optic Sensor for Monitoring Pressure Fluctuations in ON/OFF State; *JSEN April 2013 1148-1152*
- Nath, P.**, see Husain, I., *JSEN Sept. 2013 3345-3346*
- Neivandt, D. J.**, see Duy, W. S. D., *JSEN Dec. 2013 4780-4785*
- Nemirovsky, Y.**, see Savuskan, V., *JSEN May 2013 1637-1640*
- Nemirovsky, Y.**, see Savuskan, V., *JSEN June 2013 2322-2328*
- Neog, S. K.**, see Nath, P., *JSEN April 2013 1148-1152*
- Ness, S. J.**, Anderson, R. R., Hu, W., Richards, D. C., Oxborrow, J., Gustafson, T., Tsai, B., Kim, S., Mazzeo, B., Woolley, A., and Nordin, G. P., Weak Adsorption-Induced Surface Stress for Streptavidin Binding to Biotin Tethered to Silicon Microcantilever Arrays; *JSEN March 2013 959-968*
- Newe, T.**, see O'Connell, E., *JSEN July 2013 2619-2625*
- Nezhad, A. S.**, Ghanbari, M., Agudelo, C. G., Packirisamy, M., Bhat, R. B., and Geitmann, A., PDMS Microcantilever-Based Flow Sensor Integration for Lab-on-a-Chip; *JSEN Feb. 2013 601-609*
- Ng, E. J.**, Lee, H. K., Ahn, C. H., Melamud, R., and Kenny, T. W., Stability of Silicon Microelectromechanical Systems Resonant Thermometers; *JSEN March 2013 987-993*
- Ng, X.-W.**, see Cheong, Y.-K., *JSEN Sept. 2013 3347-3348*
- Nguyen, C. M.**, Huang, W.-D., Rao, S., Cao, H., Tata, U., Chiao, M., and Chiao, J.-C., Sol-Gel Iridium Oxide-Based pH Sensor Array on Flexible Polyimide Substrate; *JSEN Oct. 2013 3857-3864*
- Nguyen, C. M.**, see Tata, U., *JSEN Feb. 2013 444-445*
- Nguyen, H.**, see Palmer, K., *JSEN Jan. 2013 359-370*
- Nguyen, T. C.**, see Qiu, W., *JSEN April 2013 1216-1222*
- Nguyen-Thanh, N.**, and Koo, I., Optimal Truncated Ordered Sequential Cooperative Spectrum Sensing in Cognitive Radio; *JSEN Nov. 2013 4188-4195*
- Ni, K.**, see Li, T., *JSEN June 2013 2214-2216*
- Nidhi, Tiwari, U.**, Panwar, N., Kaler, R. S., Bhatnagar, R., and Kapur, P., Long Period Fiber Grating Humidity Sensor With Gelatin/Cobalt Chloride Coating; *JSEN Nov. 2013 4139-4140*
- Nieminen, T.**, see Shafiq, M., *JSEN March 2013 1081-1091*
- Niewczasz, P.**, see Perry, M., *JSEN Feb. 2013 816-823*
- Niewczasz, P.**, see Orr, P., *JSEN June 2013 2053-2054*
- Nihei, Y.**, see Nakamoto, T., *JSEN Nov. 2013 4305-4311*
- Nihtianov, S.**, see Shi, L., *JSEN May 2013 1699-1707*
- Nikkhah, M.**, Strobl, J. S., Srinivasaraghavan, V., and Agah, M., Isotropically Etched Silicon Microarrays for Rapid Breast Cancer Cell Capture; *JSEN March 2013 1125-1132*
- Nikolic, M.**, see Valavanis, A., *JSEN Jan. 2013 37-43*
- Nilsson, H.-E.**, see Gao, J., *JSEN May 2013 1824-1834*
- Ning, X.**, and Guo, G., Assessing Spinal Loading Using the Kinect Depth Sensor: A Feasibility Study; *JSEN April 2013 1139-1140*
- Nisato, G.**, see Mattana, G., *JSEN Oct. 2013 3901-3909*
- Nishida, T.**, see Orr, P., *JSEN June 2013 2053-2054*
- Nishimoto, T.**, see Yamashita, K., *JSEN March 2013 1074-1080*
- Nishiyama, H.**, see Kawamoto, Y., *JSEN Oct. 2013 3645-3654*
- Noda, M.**, see Yamashita, K., *JSEN March 2013 1074-1080*
- Noor, M. Y. M.**, Khalili, N., and Peng, G.-D., All-Fiber Optic Humidity Sensor Based on Photonic Bandgap Fiber and Digital WMS Detection; *JSEN May 2013 1817-1823*
- Nordin, G. P.**, see Ness, S. J., *JSEN March 2013 959-968*
- Norford, L. K.**, see Liu, H.-B., *JSEN May 2013 1914-1920*
- Nose, K.**, see Che, D.-C., *JSEN April 2013 1223-1227*
- Nyakiti, L. O.**, see Nagareddy, V. K., *JSEN Aug. 2013 2810-2817*

O

- O'Bryan, G.**, see Loyola, B. R., *JSEN June 2013 2357-2367*
- O'Connell, E.**, Healy, M., O'Keefe, S., Newe, T., and Lewis, E., A Mote Interface for Fiber Optic Spectral Sensing With Real-Time Monitoring of the Marine Environment; *JSEN July 2013 2619-2625*
- O'Keefe, S. G.**, see Hagem, R. M., *JSEN Aug. 2013 3144-3151*
- Oak, S. M.**, see Kher, S., *JSEN Nov. 2013 4482-4486*
- Occhiuto, G.**, see Labate, D., *JSEN July 2013 2666-2674*
- Ochiai, Y.**, see Chen, R., *JSEN Jan. 2013 24-30*
- Oelmann, B.**, see Shahzad, K., *JSEN Feb. 2013 670-682*
- Offermans, P.**, and Vitushinsky, R., NO₂ Detection With AlGaIn/GaN 2DEG Channels for Air Quality Monitoring; *JSEN Aug. 2013 2823-2827*
- Ogawa, Y.**, see Suzuki, T., *JSEN Dec. 2013 4972-4976*
- Oh, S.**, Yu, J.-S., Lim, J., Jadhav, M., Lee, T.-M., Kim, D., and Kim, C., Highly Flexible Magneto-electronic Device Integrated With Embedded Ag Nanoparticle Electrode; *JSEN Oct. 2013 3957-3961*
- Ohkawa, F.**, see Takeda, S., *JSEN Sept. 2013 3449-3453*
- Oho, S.**, see Nakagawa, T., *JSEN March 2013 926-933*
- Oiler, J.**, see Tang, R., *JSEN Oct. 2013 3991-3998*

- Ojo, T., see Fuller, C. B., *JSEN Nov. 2013 4546-4555*
- OKeeffe, S., see O'Connell, E., *JSEN July 2013 2619-2625*
- Oleshko, V. P., see Aluri, G. S., *JSEN May 2013 1883-1888*
- Oliveira, J. E., Grassi, V., Scagion, V. P., Mattoso, L. H. C., Glenn, G. M., and Medeiros, E. S., Sensor Array for Water Analysis Based on Interdigitated Electrodes Modified With Fiber Films of Poly(Lactic Acid)/Multiwalled Carbon Nanotubes; *JSEN Feb. 2013 759-766*
- Oliveira, T., see Pereira, T., *JSEN May 2013 1434-1441*
- Omrane, B., see Chuo, Y., *JSEN Oct. 2013 3982-3990*
- Onodera, T., see Tanaka, Y., *JSEN Nov. 2013 4452-4458*
- Oppenheimer, M., see Escarra, M. D., *JSEN June 2013 2348-2356*
- Orr, P., Niewczas, P., Booth, C., Fusiek, G., Dysko, A., Kawano, F., Nishida, T., and Beaumont, P., An Optically-Interrogated Rogowski Coil for Passive, Multiplexable Current Measurement; *JSEN June 2013 2053-2054*
- Osada, K., see Nakagawa, T., *JSEN March 2013 926-933*
- Ostadabbas, S., see Ghasemzadeh, H., *JSEN Feb. 2013 423-437*
- Ota, M., see Chen, B., *JSEN April 2013 1307-1314*
- Otsuji, T., see Watanabe, T., *JSEN Jan. 2013 89-99*
- Otten, B., see Dai, H., *JSEN Sept. 2013 3193-3202*
- Ottosson, M., see Rosental, A., *JSEN May 2013 1648-1655*
- Ou, C.-H., and He, W.-L., Path Planning Algorithm for Mobile Anchor-Based Localization in Wireless Sensor Networks; *JSEN Feb. 2013 466-475*
- Ou, Z.-Y., see Liu, Z.-H., *JSEN Oct. 2013 4098-4103*
- Ouldali, A., see Dallil, A., *JSEN Jan. 2013 285-293*
- Oussalah, M., see Dallil, A., *JSEN Jan. 2013 285-293*
- Ouyang, G., see Ju, Z., *JSEN Sept. 2013 3302-3311*
- Ouyang, J., see Zou, X., *JSEN June 2013 2155-2160*
- Owen, J., see Valer, J. C., *JSEN Aug. 2013 3046-3052*
- Oxborrow, J., see Ness, S. J., *JSEN March 2013 959-968*
- Ozaki, M., Yagitani, S., Takahashi, K., and Nagano, I., Dual-Resonant Search Coil for Natural Electromagnetic Waves in the Near-Earth Environment; *JSEN Feb. 2013 644-650*
- Ozanyan, K. B., see Cantoral-Ceballos, J. A., *JSEN Feb. 2013 581-588*
- Ozanyan, K. B., see Hindle, F., *JSEN Jan. 2013 7*
- Ozanyan, K. B., see Wood, M. P., *JSEN Aug. 2013 3060-3066*
- Ozanyan, K. B., see Efthymiou, S., *JSEN Sept. 2013 3349-3360*
- P**
- Pachkawade, V., Li, M.-H., Li, C.-S., and Li, S.-S., A CMOS-MEMS Resonator Integrated System for Oscillator Application; *JSEN Aug. 2013 2882-2889*
- Pachnis, I., see Demosthenous, A., *JSEN Sept. 2013 3236-3248*
- Paci, G., see Jelicic, V., *JSEN Jan. 2013 328-338*
- Packirisamy, M., see Nezhad, A. S., *JSEN Feb. 2013 601-609*
- Padasdao, B., Shahhaidar, E., Stickley, C., and Boric-Lubecke, O., Electromagnetic Biosensing of Respiratory Rate; *JSEN Nov. 2013 4204-4211*
- Paduano, L., see Menichetti, L., *JSEN June 2013 2341-2347*
- Paganelli, R. P., see Romani, A., *JSEN March 2013 916-925*
- Page, C. A., see Fuller, C. B., *JSEN Nov. 2013 4546-4555*
- Paglialonga, A., see Tognola, G., *JSEN Sept. 2013 3249-3254*
- Pahlavan, K., see He, J., *JSEN Oct. 2013 3826-3836*
- Paily, R., see Saxena, G., *JSEN Dec. 2013 4851-4859*
- Pak, J. J., see Han, J.-H., *JSEN Aug. 2013 3090-3097*
- Pakmehr, M. P., see Choi, J. K., *JSEN Jan. 2013 80-88*
- Palamara, I., see Morabito, F. C., *JSEN Sept. 2013 3255-3262*
- Palamara, I., see Labate, D., *JSEN Sept. 2013 3284-3292*
- Palattella, M. R., Accettura, N., Grieco, L. A., Boggia, G., Dohler, M., and Engel, T., On Optimal Scheduling in Duty-Cycled Industrial IoT Applications Using IEEE802.15.4e TSCH; *JSEN Oct. 2013 3655-3666*
- Paleo, A. J., see Rocha, J. G., *JSEN July 2013 2603-2609*
- Palmer, K., Jonsson, J., Nguyen, H., and Thornell, G., 2-D Thermal Velocity Sensor for Submersible Navigation and Minute Flow Measurements; *JSEN Jan. 2013 359-370*
- Palminteri, M. R., see Taffoni, F., *JSEN Nov. 2013 4561-4568*
- Pan, C.-T., see Liu, Z.-H., *JSEN Oct. 2013 4098-4103*
- Pan, H., see Gu, H., *JSEN Feb. 2013 864-869*
- Pan, J. S., see Xu, W., *JSEN May 2013 1571-1574*
- Pan, J.-S., see Shih, H.-C., *JSEN July 2013 2683-2689*
- Pan, S.-S., see Liu, H.-B., *JSEN May 2013 1914-1920*
- Pandharipande, A., see Srinivasan, S., *JSEN July 2013 2517-2518*
- Pandharipande, A., see Caicedo, D., *JSEN March 2013 1092-1104*
- Pandharipande, A., and Li, S., Light-Harvesting Wireless Sensors for Indoor Lighting Control; *JSEN Dec. 2013 4599-4606*
- Pantelopoulou, A., see Ghasemzadeh, H., *JSEN Feb. 2013 423-437*
- Panwar, N., see Nidhi, *JSEN Nov. 2013 4139-4140*
- Papautsky, I., see Dixit, R., *JSEN May 2013 1965-1971*
- Paprotny, I., see Xu, Q. R., *JSEN March 2013 1055-1064*
- Paprotny, I., Xu, Q., Chan, W. W., White, R. M., and Wright, P. K., Electro-mechanical Energy Scavenging From Current-Carrying Conductors; *JSEN Jan. 2013 190-201*
- Paquet, A., see Charlebois, M., *JSEN Jan. 2013 229-233*
- Park, J.-H., see Jeong, H.-H., *JSEN Jan. 2013 351-358*
- Park, Y.-L., see Vogt, D. M., *JSEN Oct. 2013 4056-4064*
- Park, Y.-L., see Chossat, J.-B., *JSEN Sept. 2013 3405-3414*
- Parks, D., see Zhao, S., *JSEN Dec. 2013 4613-4620*
- Parshin, V. V., Tretyakov, M. Y., Koshelev, M. A., and Serov, E. A., Modern Resonator Spectroscopy at Submillimeter Wavelengths; *JSEN Jan. 2013 18-23*
- Parsons, D. R., see Hobby, M. J., *JSEN Feb. 2013 492-500*
- Passerone, R., see Cottini, N., *JSEN Sept. 2013 3341-3342*
- Pastre, M., see Ajbl, A., *JSEN June 2013 2271-2278*
- Paul, A., Pramanick, B., Bhattacharya, B., and Bhattacharyya, T. K., Deoxyribonucleic Acid Functionalized Carbon Nanotube Network as Humidity Sensors; *JSEN May 2013 1806-1816*
- Paul, O., see Huber, S., *JSEN Aug. 2013 2890-2898*
- Pavan, S., see Veeramani, M. S., *JSEN May 2013 1941-1948*
- Peace, S. T., see Johnson, B., *JSEN Sept. 2013 3211-3218*
- Peakall, J., see Hobby, M. J., *JSEN Feb. 2013 492-500*
- Peeters, M., see Broeders, J., *JSEN July 2013 2659-2665*
- Peiner, E., and Doering, L., Nondestructive Evaluation of Diesel Spray Holes Using Piezoresistive Sensors; *JSEN Feb. 2013 701-708*
- Peixoto, A. C. M., Goncalves, S. B., Silva, A. F. D., Dias, N. S., and Correia, J. H., Neural Electrode Array Based on Aluminum: Fabrication and Characterization; *JSEN Sept. 2013 3319-3324*
- Pendse, R., see Hatime, H., *JSEN Jan. 2013 253-262*
- Peng, C.-C., see Tsao, C.-C., *JSEN July 2013 2636-2642*
- Peng, G.-D., see Noor, M. Y. M., *JSEN May 2013 1817-1823*
- Peng, G.-D., see Rajan, G., *JSEN May 2013 1794-1800*
- Peng, L., see Yang, Y., *JSEN May 2013 1582-1593*
- Peng, P., see Singal, K., *JSEN Feb. 2013 792-800*
- Penze, R. S., see Rosolem, J. B., *JSEN Nov. 2013 4113-4120*
- Pereira, H., see Pereira, T., *JSEN May 2013 1434-1441*
- Pereira, T., Oliveira, T., Cabeleira, M., Pereira, H., Almeida, V., Cardoso, J., and Correia, C., Comparison of Low-Cost and Noninvasive Optical Sensors for Cardiovascular Monitoring; *JSEN May 2013 1434-1441*
- Peris-Lopez, P., see Martin, H., *JSEN Oct. 2013 3537-3547*
- Peroulis, D., see Gupta, L. A., *JSEN June 2013 2292-2298*
- Perriard, Y., see Danisi, A., *JSEN Dec. 2013 4663-4670*
- Perriard, Y., see Masi, A., *JSEN March 2013 941-948*
- Perrier, A.-L., see Ayde, R., *JSEN April 2013 1274-1280*
- Perrier, A.-L., Goebel, J.-C., Pinzano-Watrin, A., Roeder, E., Gillet, P., Grenier, D., and Beuf, O., Design of a Four-Channel Surface Receiver Coil Array Without Preamplifiers for the Decoupling Between Elements: Validation for High-Resolution Rat Knee MR Imaging; *JSEN June 2013 2450-2458*
- Perrin, E., see Rasolofondraibe, L., *JSEN Aug. 2013 3067-3072*
- Perry, M., Niewczas, P., Johnston, M., Cook, K., and Canning, J., Induction Brazing of Type-I Fiber Bragg Gratings Into Kovar Ferrules Exploiting Curie Transition; *JSEN Feb. 2013 816-823*
- Pertjts, M. A. P., see Aita, A. L., *JSEN May 2013 1840-1848*
- Petras, D., see Slobodian, P., *JSEN Oct. 2013 4045-4048*
- Petricevic, S. J., see Mihailovic, P. M., *JSEN Feb. 2013 832-837*
- Phang, S.-W., see Lim, K.-S., *JSEN May 2013 2020-2025*
- Pierce, S. G., see Macleod, C. N., *JSEN Nov. 2013 4320-4328*
- Pigeat, P., see Legrani, O., *JSEN Feb. 2013 487-491*
- Pignagnelli, E., see Kuhn, K., *JSEN March 2013 934-940*
- Pinna, L., see Seminara, L., *JSEN Oct. 2013 4022-4029*
- Pino-Povedano, S., and Gonzalez-Serrano, F.-J., On the Use of Modified Cramér-Rao Bound in Sensor Deployment; *JSEN Nov. 2013 4163-4171*
- Pinzano-Watrin, A., see Perrier, A.-L., *JSEN June 2013 2450-2458*
- Pipe, A. G., see Macleod, C. N., *JSEN Nov. 2013 4320-4328*
- Pisarkiewicz, T., see Rydosz, A., *JSEN May 2013 1889-1896*
- Placido, T., Comparelli, R., Striccoli, M., Agostiano, A., Merkoci, A., and Curri, M. L., Assembly of Gold Nanorods for Highly Sensitive Detection of Mercury Ions; *JSEN Aug. 2013 2834-2841*
- Placko, D., see Bore, T., *JSEN Feb. 2013 457-465*

Poduri, S., see Brennehan, K. L., *JSEN May 2013 1783-1786*
Pogrebnyak, V. A., see Choi, J. K., *JSEN Jan. 2013 80-88*
Pompei, A., see Grossi, M., *JSEN May 2013 1775-1782*
Pong, P. W. T., see Sun, X., *JSEN Nov. 2013 4527-4533*
Pongracz, A., see Marton, G., *JSEN Sept. 2013 3263-3269*
Poon, C. K., see Sun, X., *JSEN Nov. 2013 4527-4533*
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Pottier, B., see Rasolofondraibe, L., *JSEN Aug. 2013 3067-3072*
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Pourkamali, S., see Guo, X., *JSEN Aug. 2013 2863-2872*
Pramanick, B., see Paul, A., *JSEN May 2013 1806-1816*
Prashanth, G. R., see Goudar, V. S., *JSEN Dec. 2013 4817-4823*
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Proietti, M., see Carrara, S., *JSEN March 2013 1018-1024*
Pua, C. H., see Yang, H., *JSEN July 2013 2581-2585*
Pua, C.-H., see Lim, K.-S., *JSEN May 2013 2020-2025*
Pujari, A. K., see Mini, S., *JSEN July 2013 2742-2749*

Q

Qi, F., Hu, L., Dong, X., Xin, Y., Zhao, C.-L., Jin, S., and Chan, J. C. C., A Hollow Core Fiber-Based Intermodal Interferometer for Measurement of Strain and Temperature; *JSEN Sept. 2013 3468-3471*
Qi, H., see Liao, Y., *JSEN May 2013 1498-1506*
Qi, X., Shu, D., Qiu, F., and Chen, J., Study of Digital Dissolved Oxygen Analytical Sensor of ppb-Level; *JSEN Nov. 2013 4279-4286*
Qian, J., see Yang, W., *JSEN June 2013 2313-2321*
Qian, X., Yu, H., Chen, S., and Low, K. S., An Adaptive Integration Time CMOS Image Sensor With Multiple Readout Channels; *JSEN Dec. 2013 4931-4939*
Qian, Y., see Yao, R., *JSEN Oct. 2013 3637-3644*
Qian, Z., see Li, J., *JSEN Dec. 2013 4944-4947*
Qiao, G., Hong, Y., Sun, G., and Yang, O., Corrosion Energy: A Novel Source to Power the Wireless Sensor; *JSEN April 2013 1141-1142*
Qiao, X., see Rong, Q., *JSEN Nov. 2013 4356-4360*
Qiao, X., see Wang, R., *JSEN May 2013 1766-1770*
Qiao, X., see Zhang, J., *JSEN June 2013 2061-2065*
Qiao, X., see Shao, M., *JSEN May 2013 2026-2031*
Qiao, X., see Sun, H., *JSEN May 2013 2039-2044*
Qiao, X., see Rong, Q., *JSEN May 2013 1473-1477*
Qin, X., see Yang, W., *JSEN June 2013 2313-2321*
Qin, Y., see Yang, H., *JSEN Feb. 2013 556-562*
Qiu, C., see Yuan, Y., *JSEN Oct. 2013 3837-3845*
Qiu, F., see Qi, X., *JSEN Nov. 2013 4279-4286*
Qiu, W., Nguyen, T. C., and Skafidas, E., Modeling and Estimating Simulated DNA Nanopore Translocation Signals; *JSEN April 2013 1216-1222*
Qu, W., see Hu, C., *JSEN Nov. 2013 4569-4575*
Quan, D. M., see Shigeta, R., *JSEN Aug. 2013 2973-2983*
Quan, W., see Wu, Z., *JSEN Feb. 2013 777-782*
Quevedo-Lopez, M., see Celik-Butler, Z., *JSEN Oct. 2013 3854-3856*
Quintela, M. A., see Rota-Rodrigo, S., *JSEN June 2013 2279-2283*
Quintero, A. V., see Mattana, G., *JSEN Oct. 2013 3901-3909*

R

Radunovic, J. B., see Mihailovic, P. M., *JSEN Feb. 2013 832-837*
Rahman, H. A., see Harun, S. W., *JSEN Jan. 2013 348-350*
Rahman, H. A., Harun, S. W., Batumalay, M., Muttalib, F. A., and Ahmad, H., Fiber Optic Displacement Sensor Using Multimode Plastic Fiber Probe and Tooth Surface; *JSEN Jan. 2013 294-298*
Rahman, M. Z. U., see Karthik, G. V. S., *JSEN Sept. 2013 3276-3283*
Rajagopalan, S., see Das, A., *JSEN July 2013 2757-2762*
Rajamani, R., see Taghvaeeyan, S., *JSEN Aug. 2013 3106-3114*
Rajamani, R., see Singal, K., *JSEN Feb. 2013 792-800*
Rajan, G., Liu, B., Luo, Y., Ambikairajah, E., and Peng, G.-D., High Sensitivity Force and Pressure Measurements Using Etched Singlemode Polymer Fiber Bragg Gratings; *JSEN May 2013 1794-1800*

Rakic, A. D., see Valavanis, A., *JSEN Jan. 2013 37-43*
Rakshit, S., and Iliadis, A. A., A Novel Closed-Loop Readout Topology for Monolithically Integrated Surface Acoustic Wave Sensors; *JSEN Nov. 2013 4264-4270*
Ramaswamy, R., see Choi, J. K., *JSEN Jan. 2013 80-88*
Ran, Z., Li, C., Zuo, H., and Chen, Y., Laser-Machined Cascaded Micro Cavities for Simultaneous Measurement of Dual Parameters Under High Temperature; *JSEN May 2013 1988-1991*
Rana, R., see Shen, Y., *JSEN June 2013 2120-2128*
Rani, M., see Kumar, P., *JSEN June 2013 2161-2165*
Rantanen, V., Venesvirta, H., Spakov, O., Verho, J., Vetek, A., Surakka, V., and Leikkala, J., Capacitive Measurement of Facial Activity Intensity; *JSEN Nov. 2013 4329-4338*
Rao, G. M., see Krishnaswamy, N., *JSEN May 2013 1730-1741*
Rao, M. V., see Aluri, G. S., *JSEN May 2013 1883-1888*
Rao, S., see Nguyen, C. M., *JSEN Oct. 2013 3857-3864*
Rasolofondraibe, L., Pottier, B., Marconnet, P., and Perrin, E., Numerical Model of the Capacitive Probe's Capacitance for Measuring the External Loads Transmitted by the Bearing's Rolling Elements of Rotating Machines; *JSEN Aug. 2013 3067-3072*
Ratchagar, N. P., see Veeramani, M. S., *JSEN May 2013 1941-1948*
Ratterman, M., see Dixit, R., *JSEN May 2013 1965-1971*
Raza, S., Shafagh, H., Hewage, K., Hummen, R., and Voigt, T., Lithium: Lightweight Secure CoAP for the Internet of Things; *JSEN Oct. 2013 3711-3720*
Razumiene, J., see Laurinavicius, V., *JSEN June 2013 2208-2213*
Redfern, C., see Swierczewski, R., *JSEN May 2013 1602-1609*
Rednic, R., see Gaura, E. I., *JSEN Oct. 2013 3816-3825*
Reed, M. A., and Scott, W. R., Coil Optimization Method for Electromagnetic Induction Systems; *JSEN Nov. 2013 4506-4512*
Reindl, L., see Zhang, R., *JSEN Feb. 2013 838-848*
Ren, S., and Lee, G. Y.-H., A Robust Low Power Carbon Nanotube Sensor Interface Circuit in 180 nm CMOS Technology; *JSEN Dec. 2013 4786-4795*
Reno, J. L., see Chen, R., *JSEN Jan. 2013 24-30*
Reverter, F., Gomez, D., and Altet, J., On-Chip MOSFET Temperature Sensor for Electrical Characterization of RF Circuits; *JSEN Sept. 2013 3343-3344*
Reynolds, J. P., see Maschal, R. A., *JSEN Jan. 2013 371-378*
Rezgoui, N. D., see Andrews, D. A., *JSEN Dec. 2013 4948-4954*
Rhouni, A., Sou, G., Leroy, P., and Collot, C., Very Low 1/f Noise and Radiation-Hardened CMOS Preamplifier for High-Sensitivity Search Coil Magnetometers; *JSEN Jan. 2013 159-166*
Riba, J.-R., Canals, T., and Cantero, R., Recovered Paperboard Samples Identification by Means of Mid-Infrared Sensors; *JSEN July 2013 2763-2770*
Ricci, D., see Seminara, L., *JSEN Oct. 2013 4022-4029*
Ricco, B., see Grossi, M., *JSEN May 2013 1775-1782*
Rice, G., see Alfeeli, B., *JSEN Nov. 2013 4312-4319*
Richards, D. C., see Ness, S. J., *JSEN March 2013 959-968*
Ricolfe-Viala, C., Sanchez-Salmeron, A.-J., and Valera, A., Efficient Lens Distortion Correction for Decoupling in Calibration of Wide Angle Lens Cameras; *JSEN Feb. 2013 854-863*
Riha, P., see Slobodian, P., *JSEN Oct. 2013 4045-4048*
Rivas-Perea, P., see Cota-Ruiz, J., *JSEN June 2013 2181-2191*
Roberts, G., see Valer, J. C., *JSEN Aug. 2013 3046-3052*
Roberts, M., see Valer, J. C., *JSEN Aug. 2013 3046-3052*
Rocha, J. G., Paleo, A. J., van Hattum, F. W. J., and Lanceros-Mendez, S., Polypropylene-Carbon Nanofiber Composites as Strain-Gauge Sensor; *JSEN July 2013 2603-2609*
Roda, A., see Caputo, D., *JSEN July 2013 2595-2602*
Rodrigues, J. J. P. C., see Caldeira, J. M. L. P., *JSEN Nov. 2013 4339-4348*
Rodriguez-Cobo, L., see Rota-Rodrigo, S., *JSEN June 2013 2279-2283*
Rodriguez-Mendez, M. L., see Apetrei, I. M., *JSEN July 2013 2548-2554*
Rodriguez-Plaza, M., see Filograno, M. L., *JSEN Dec. 2013 4808-4816*
Roeder, E., see Perrier, A.-L., *JSEN June 2013 2450-2458*
Roh, H.-J., see Jeong, H.-H., *JSEN Jan. 2013 351-358*
Romani, A., Paganelli, R. P., Sangiorgi, E., and Tartagni, M., Joint Modeling of Piezoelectric Transducers and Power Conversion Circuits for Energy Harvesting Applications; *JSEN March 2013 916-925*
Romeo, S., see Gennarelli, G., *JSEN May 2013 1857-1864*
Rong, Q., Qiao, X., Du, Y., Feng, D., Wang, R., Ma, Y., Sun, H., Hu, M., and Feng, Z., Reflective Refractometer Based on a Thin-Core Fiber Tailored Multimode Fiber Bragg Grating; *JSEN Nov. 2013 4356-4360*
Rong, Q., see Sun, H., *JSEN May 2013 2039-2044*
Rong, Q., see Wang, R., *JSEN May 2013 1766-1770*

- Rong, Q.**, Qiao, X., Guo, T., Zhang, J., Wang, R., Hu, M., Feng, Z., Weng, Y., and Ma, Y., Reflective Fiber-Optic Refractometer Based on a Compact Hi-Bi Fiber Tip; *JSEN May 2013 1473-1477*
- Roopa, S.**, see Tulip, F. S., *JSEN Feb. 2013 438-439*
- Roobahani, H.**, Fakhrazadeh, A., Haario, H., and Handroos, H., Novel On-line Re-Calibration Method for Multi-Axis Force/Torque Sensor of ITER Welding/Machining Robot; *JSEN Nov. 2013 4432-4443*
- Roscoe, N. M.**, and Judd, M. D., Harvesting Energy From Magnetic Fields to Power Condition Monitoring Sensors; *JSEN June 2013 2263-2270*
- Roscoe, N. M.**, and Judd, M. D., Optimization of Voltage Doublers for Energy Harvesting Applications; *JSEN Dec. 2013 4904-4911*
- Rosental, A.**, Tarre, A., Gerst, A., Kasikov, A., Lu, J., Ottosson, M., and Uustare, T., Epitaxial Single and Double Nanolayers of SnO₂ and TiO₂ for Resistive Gas Sensors; *JSEN May 2013 1648-1655*
- Rosiles, J.-G.**, see Cota-Ruiz, J., *JSEN June 2013 2181-2191*
- Roskos, H. G.**, see Lissauskas, A., *JSEN Jan. 2013 124-132*
- Rosolem, J. B.**, Dini, D. C., Penze, R. S., Florida, C., Leonardi, A. A., Loichate, M. D., and Durelli, A. S., Fiber Optic Bending Sensor for Water Level Monitoring: Development and Field Test: A Review; *JSEN Nov. 2013 4113-4120*
- Rota-Rodrigo, S.**, Rodriguez-Cobo, L., Quintela, M. A., Lopez-Higuera, J. M., and Lopez-Amo, M., A Switchable Erbium Doped Fiber Ring Laser System for Temperature Sensors Multiplexing; *JSEN June 2013 2279-2283*
- Roubieu, F. L.**, Expert, F., Sabiron, G., and Ruffier, F., Two-Directional 1-g Visual Motion Sensor Inspired by the Fly's Eye; *JSEN March 2013 1025-1035*
- Rouf, V. T.**, Li, M., and Horsley, D. A., Area-Efficient Three Axis MEMS Lorentz Force Magnetometer; *JSEN Nov. 2013 4474-4481*
- Rout, R. R.**, see Chakraborty, A., *JSEN July 2013 2771-2779*
- Roy, S.**, see Banerjee, N., *JSEN May 2013 1669-1676*
- Royal, M. W.**, Jokerst, N. M., and Fair, R. B., Droplet-Based Sensing: Optical Microresonator Sensors Embedded in Digital Electrowetting Microfluidics Systems; *JSEN Dec. 2013 4733-4742*
- Royo, S.**, see Atashkhoeei, R., *JSEN May 2013 1641-1647*
- Rožan, D.**, Akram, A. A., Levanon, A., Abramovich, A., and Kopeika, N. S., W-Band Chirp Radar Mock-Up Using a Glow Discharge Detector; *JSEN Jan. 2013 139-145*
- Ruan, J. J.**, see Mattana, G., *JSEN Oct. 2013 3901-3909*
- Ruchhoeft, P.**, see Wang, S., *JSEN Nov. 2013 4534-4541*
- Ruffier, F.**, see Roubieu, F. L., *JSEN March 2013 1025-1035*
- Rumyantsev, S.**, Liu, G., Potyrailo, R. A., Balandin, A. A., and Shur, M. S. S., Selective Sensing of Individual Gases Using Graphene Devices; *JSEN Aug. 2013 2818-2822*
- Rupitsch, S. J.**, see Ilg, J., *JSEN June 2013 2442-2449*
- Rutten, M.**, see van der Horst, A., *JSEN Oct. 2013 3883-3891*
- Rydosz, A.**, Maziarz, W., Pisarkiewicz, T., de Torres, H. B., and Mueller, J., A Microconcentrator Design Using Low Temperature Cofired Ceramics Technology for Acetone Detection Applications; *JSEN May 2013 1889-1896*
- S**
- Sabatier, J. M.**, see Damarla, T., *JSEN MAY 2013 1464-1472*
- Sabiron, G.**, see Roubieu, F. L., *JSEN March 2013 1025-1035*
- Sablong, R.**, see Ayde, R., *JSEN April 2013 1274-1280*
- Saeedkia, D.**, see Missous, M., *JSEN Jan. 2013 63-71*
- Saeidi, N.**, Strutwolf, J., Marechal, A., Demosthenous, A., and Donaldson, N., A Capacitive Humidity Sensor Suitable for CMOS Integration; *JSEN Nov. 2013 4487-4495*
- Saeidi, N.**, see Cirmirakis, D., *JSEN March 2013 900-908*
- Saez, S.**, see Dufay, B., *JSEN Jan. 2013 379-388*
- Sagahyoon, A.**, see Zahidi, S. Z. H., *JSEN June 2013 2400-2412*
- Sagawa, Y.**, see Kimura, M., *JSEN May 2013 1771-1774*
- Sahoo, J.**, see Sahu, P. K., *JSEN Aug. 2013 3115-3123*
- Sahu, P. K.**, Wu, E. H.-K., and Sahoo, J., DuRT: Dual RSSI Trend Based Localization for Wireless Sensor Networks; *JSEN Aug. 2013 3115-3123*
- Saito, H.**, see Arakawa, T., *JSEN Aug. 2013 2842-2848*
- Sakurai, T.**, see Takeda, S., *JSEN Sept. 2013 3449-3453*
- Salazar, B.**, see Wang, S., *JSEN Nov. 2013 4534-4541*
- Salonen, E. T.**, see Huttunen, A., *JSEN Feb. 2013 849-853*
- Samanta, N.**, Kundu, O., and Chaudhuri, C. R., A Simple Low Power Electronic Readout for Rapid Bacteria Detection With Impedance Biosensor; *JSEN Dec. 2013 4716-4724*
- Samavi, S.**, see Fooladgar, F., *JSEN Nov. 2013 4236-4246*
- Sanchez, P.**, Zamarrero, C. R., Hernaez, M., Del Villar, I., Matias, I. R., and Arregui, F. J., Considerations for Lossy-Mode Resonance-Based Optical Fiber Sensor; *JSEN April 2013 1167-1171*
- Sanchez-Salmeron, A.-J.**, see Ricolfe-Viala, C., *JSEN Feb. 2013 854-863*
- Sangiorgi, E.**, see Romani, A., *JSEN March 2013 916-925*
- Santana, J.**, see Torfs, T., *JSEN March 2013 909-915*
- Santos-Aguilar, J.**, see Gutierrez-Martinez, C., *JSEN Nov. 2013 4196-4203*
- Saponara, V. L.**, see Loyola, B. R., *JSEN June 2013 2357-2367*
- Saraoglu, H. M.**, Selvi, A. O., Ebeoglu, M. A., and Tasaltin, C., Electronic Nose System Based on Quartz Crystal Microbalance Sensor for Blood Glucose and HbA_{1c} Levels From Exhaled Breath Odor; *JSEN Nov. 2013 4229-4235*
- Sarkar, A. R.**, Dey, D., and Munshi, S., Linearization of NTC Thermistor Characteristic Using Op-Amp Based Inverting Amplifier; *JSEN Dec. 2013 4621-4626*
- Sarkar, C. K.**, see Banerjee, N., *JSEN May 2013 1669-1676*
- Sarkar, M.**, Bello, D. S. S., van Hoof, C., and Theuwissen, A. J. P., Biologically Inspired CMOS Image Sensor for Fast Motion and Polarization Detection; *JSEN March 2013 1065-1073*
- Sarkar, S. T.**, see Singh, H. K., *JSEN Feb. 2013 801-806*
- Sarma, S.**, see Kalansuriya, P., *JSEN May 2013 1564-1570*
- Sarrafzadeh, M.**, see Xu, W., *JSEN Oct. 2013 3926-3934*
- Sasaki, T.**, see Shigetani, R., *JSEN Aug. 2013 2973-2983*
- Satpathi, S.**, Kokil, A., Venkatraman, B. H., Li, L., Venkataraman, D., and Kumar, J., Sensitive Detection of Nitroaromatics With Colloidal Conjugated Polymer Nanoparticles; *JSEN June 2013 2329-2333*
- Sato, T.**, see Arifuzzaman, M., *JSEN June 2013 2391-2399*
- Sato, T.**, see Hirokubo, N., *JSEN Aug. 2013 2930-2936*
- Savic, V.**, see Athalye, A., *JSEN Feb. 2013 528-537*
- Savolainen, T.**, Soininen, J., and Silverajan, B., IPv6 Addressing Strategies for IoT; *JSEN Oct. 2013 3511-3519*
- Savran, C. A.**, see Chan, B.-D., *JSEN Aug. 2013 2857-2862*
- Savuskan, V.**, Brouk, I., Javitt, M., and Nemirovsky, Y., An Estimation of Single Photon Avalanche Diode (SPAD) Photon Detection Efficiency (PDE) Nonuniformity; *JSEN May 2013 1637-1640*
- Savuskan, V.**, Javitt, M., Visokolov, G., Brouk, I., and Nemirovsky, Y., Selecting Single Photon Avalanche Diode (SPAD) Passive-Quenching Resistance: An Approach; *JSEN June 2013 2322-2328*
- Sawamoto, T.**, see Seo, M.-W., *JSEN Aug. 2013 2922-2929*
- Saxena, G.**, and Paily, R., Analytical Modeling of Square Microhotplate for Gas Sensing Application; *JSEN Dec. 2013 4851-4859*
- Scagion, V. P.**, see Oliveira, J. E., *JSEN Feb. 2013 759-766*
- Scarfì, M. R.**, see Gennarelli, G., *JSEN May 2013 1857-1864*
- Scarpa, G.**, see Abdellah, A., *JSEN Oct. 2013 4014-4021*
- Schemm, N.**, see Schrage, C., *JSEN July 2013 2610-2618*
- Schena, E.**, see Taffoni, F., *JSEN Nov. 2013 4561-4568*
- Schena, E.**, see Battista, L., *JSEN Sept. 2013 3312-3318*
- Schiavone, G.**, see Battista, L., *JSEN Sept. 2013 3312-3318*
- Schmidhammer, U.**, see Jeunesse, P., *JSEN Jan. 2013 44-49*
- Schmitt, D.**, see Binder, A., *JSEN May 2013 1801-1805*
- Schobergn, N.**, see Binder, A., *JSEN May 2013 1801-1805*
- Scholten, K.**, Wright, L. K., and Zellers, E. T., Vapor Discrimination With Single- and Multitransducer Arrays of Nanoparticle-Coated Chemiresistors and Resonators; *JSEN June 2013 2146-2154*
- Scholze, F.**, see Shi, L., *JSEN May 2013 1699-1707*
- Schott, C.**, see Huber, S., *JSEN Aug. 2013 2890-2898*
- Schrage, C.**, Schemm, N., Balkir, S., Hoffman, M. W., and Bauer, M., A Low-Power Directional Gamma-Ray Sensor System for Long-Term Radiation Monitoring; *JSEN July 2013 2610-2618*
- Schrank, V.**, see Krajewski, A. S., *JSEN Dec. 2013 4743-4748*
- Schubert, J.**, see Bowen, J. W., *JSEN Jan. 2013 100-110*
- Schulz, V.**, Ebert, H., and Gerlach, G., A Closed-Loop Hydrogel-Based Chemical Sensor; *JSEN March 2013 994-1002*
- Schutze, A.**, see Kuhn, K., *JSEN March 2013 934-940*
- Scipinotti, R.**, see Caputo, D., *JSEN July 2013 2595-2602*
- Sciuto, S. A.**, see Battista, L., *JSEN Sept. 2013 3312-3318*
- Scott, R. H.**, Banerji, P., Chikermane, S., Srinivasan, S., Basheer, P. A. M., Surre, F., Sun, T., and Grattan, K. T. V., Commissioning and Evaluation of a Fiber-Optic Sensor System for Bridge Monitoring; *JSEN July 2013 2555-2562*
- Scott, W. R.**, see Reed, M. A., *JSEN Nov. 2013 4506-4512*
- Seeberg, T. M.**, see Vardoy, A.-S. B., *JSEN Oct. 2013 4049-4055*
- Seguin, J.-L.**, see Contaret, T., *JSEN March 2013 980-986*
- Seidel, M.**, see Xu, Q. R., *JSEN March 2013 1055-1064*

- Seiyama, A., see Che, D.-C., *JSEN April 2013 1223-1227*
- Selvi, A. O., see Saraoglu, H. M., *JSEN Nov. 2013 4229-4235*
- Semenova, Y., see Mathew, J., *JSEN May 2013 1632-1636*
- Semenova, Y., see Wang, P., *JSEN Jan. 2013 180-185*
- Seminara, L., Pinna, L., Valle, M., Basirico, L., Loi, A., Cosseddu, P., Bonfiglio, A., Ascia, A., Biso, M., Ansaldo, A., Ricci, D., and Metta, G., Piezoelectric Polymer Transducer Arrays for Flexible Tactile Sensors; *JSEN Oct. 2013 4022-4029*
- Seminario, J. M., see Gimenez, A. J., *JSEN April 2013 1301-1306*
- Seo, M.-W., Sawamoto, T., Akahori, T., Iida, T., Takasawa, T., Yasutomi, K., and Kawahito, S., A Low Noise Wide Dynamic Range CMOS Image Sensor With Low-Noise Transistors and 17b Column-Parallel ADCs; *JSEN Aug. 2013 2922-2929*
- Seok, J.-H., Lee, J.-Y., Kim, W., and Lee, J.-J., A Bipopulation-Based Evolutionary Algorithm for Solving Full Area Coverage Problems; *JSEN Dec. 2013 4796-4807*
- Seppa, H., see Viikari, V., *JSEN April 2013 1180-1186*
- Sergeev, A. V., see Choi, J. K., *JSEN Jan. 2013 80-88*
- Serov, E. A., see Parshin, V. V., *JSEN Jan. 2013 18-23*
- Servagent, N., Jawad, B., Bouvier, S., Boyer, F., Girin, A., Gomez, F., Lebartard, V., Stefanini, C., and Gossiaux, P.-B., Electrolocation Sensors in Conducting Water Bio-Inspired by Electric Fish; *JSEN May 2013 1865-1882*
- Settles, G. S., see Fulghum, M. R., *JSEN April 2013 1252-1258*
- Shafagh, H., see Raza, S., *JSEN Oct. 2013 3711-3720*
- Shafai, C., see Emadi, T. A., *JSEN Feb. 2013 519-527*
- Shafiq, M., Kutt, L., Lehtonen, M., Nieminen, T., and Hashmi, M., Parameters Identification and Modeling of High-Frequency Current Transducer for Partial Discharge Measurements; *JSEN March 2013 1081-1091*
- Shahhaidari, E., see Padasdao, B., *JSEN Nov. 2013 4204-4211*
- Shahosseini, I., Lefeuvre, E., Moulin, J., Martincic, E., Woytasik, M., and Lemarquand, G., Optimization and Microfabrication of High Performance Silicon-Based MEMS Microspeaker; *JSEN Jan. 2013 273-284*
- Shahzad, K., Cheng, P., and Oelmann, B., Architecture Exploration for a High-Performance and Low-Power Wireless Vibration Analyzer; *JSEN Feb. 2013 670-682*
- Shaji, M., see Shete, M., *JSEN Dec. 2013 4706-4715*
- Shao, M., Qiao, X., Fu, H., Zhao, N., Liu, Q., and Gao, H., An In-Fiber Mach-Zehnder Interferometer Based on Arc-Induced Tapers for High Sensitivity Humidity Sensing; *JSEN May 2013 2026-2031*
- Shao, S., and Burkholder, R. J., Item-Level RFID Tag Location Sensing Utilizing Reader Antenna Spatial Diversity; *JSEN Oct. 2013 3767-3774*
- Sharif, H., see Shrestha, P. L., *JSEN Oct. 2013 3616-3624*
- Sharma, J. N., see Maier, R. R. J., *JSEN March 2013 969-979*
- Shen, C., see Wang, J., *JSEN May 2013 1721-1724*
- Shen, L., see Kliche, K., *JSEN July 2013 2626-2635*
- Shen, L., see Dixit, R., *JSEN May 2013 1965-1971*
- Shen, R.-F., see Tang, Y.-Z., *JSEN Sept. 2013 3270-3275*
- Shen, X., see Liang, X., *JSEN Oct. 2013 3702-3710*
- Shen, Y., Hu, W., Rana, R., and Chou, C. T., Nonuniform Compressive Sensing for Heterogeneous Wireless Sensor Networks; *JSEN June 2013 2120-2128*
- Shen, Z., see Asadnia, M., *JSEN Oct. 2013 3918-3925*
- Sheng, X., Tang, J., Xiao, X., and Xue, G., Sensing as a Service: Challenges, Solutions and Future Directions; *JSEN Oct. 2013 3733-3741*
- Shenoy, M. R., see Tiwari, U., *JSEN April 2013 1315-1319*
- Sherlock, T., see Wang, S., *JSEN Nov. 2013 4534-4541*
- Shete, M., Shaji, M., and Akhtar, M. J., Design of a Coplanar Sensor for RF Characterization of Thin Dielectric Samples; *JSEN Dec. 2013 4706-4715*
- Sheu, M.-H., see Hsia, S.-C., *JSEN April 2013 1281-1287*
- Shewale, P. S., Kamble, B. N., Moholkar, A. V., Kim, J. H., and Uplane, M. D., Influence of Substrate Temperature on H₂S Gas Sensing Properties of Nanocrystalline Zinc Oxide Thin Films Prepared by Advanced Spray Pyrolysis; *JSEN May 2013 1992-1998*
- Shi, L., Nihtianov, S., Nanver, L. K., and Scholze, F., Stability Characterization of High-Sensitivity Silicon-Based EUV Photodiodes in a Detrimental Environment; *JSEN May 2013 1699-1707*
- Shi, Q., and Kanoun, O., Wire Fault Location in Coaxial Cables by Impedance Spectroscopy; *JSEN Nov. 2013 4465-4473*
- Shiau, C.-C., Liao, Y.-C., Kao, Z.-K., Yeh, Y.-C., and Lu, Y.-W., Paper-Based Flexible Tactile Device Using Electrical Contact Resistance Variation for Elasticity Measurement on Biological Objects; *JSEN Oct. 2013 4038-4044*
- Shigetani, R., Sasaki, T., Quan, D. M., Kawahara, Y., Vyas, R. J., Tentzeris, M. M., and Asami, T., Ambient RF Energy Harvesting Sensor Device With Capacitor-Leakage-Aware Duty Cycle Control; *JSEN Aug. 2013 2973-2983*
- Shih, H.-C., Ho, J.-H., Liao, B.-Y., and Pan, J.-S., Fault Node Recovery Algorithm for a Wireless Sensor Network; *JSEN July 2013 2683-2689*
- Shikida, M., and Asano, K., A Flexible Transparent Touch Panel Based on Ionic Liquid Channel; *JSEN Sept. 2013 3490-3495*
- Shimouchi, A., see Che, D.-C., *JSEN April 2013 1223-1227*
- Shin, H. S., see Lee, Y. K., *JSEN May 2013 1459-1463*
- Shiramin, L. A., Kheradmand, R., and Abbasi, A., High-Sensitive Double-Hole Defect Refractive Index Sensor Based on 2-D Photonic Crystal; *JSEN May 2013 1483-1486*
- Shirani, S., see Fooladgar, F., *JSEN Nov. 2013 4236-4246*
- Shojaei, M., see Mirmohseni, A., *JSEN Nov. 2013 4542-4545*
- Shrestha, P. L., Hempel, M., Sharif, H., and Chen, H.-H., Modeling Latency and Reliability of Hybrid Technology Networking; *JSEN Oct. 2013 3616-3624*
- Shu, D., see Qi, X., *JSEN Nov. 2013 4279-4286*
- Shui, A., Chen, W., and Shui, Y., Improved Flexible Sensing Cable System for Leak Detection and Localization; *JSEN Nov. 2013 4287-4295*
- Shui, T., see Cao, Z., *JSEN May 2013 1447-1451*
- Shui, Y., see Shui, A., *JSEN Nov. 2013 4287-4295*
- Shulzinger, A., see Kapilevich, B., *JSEN Nov. 2013 4224-4228*
- Shum, P. P., see Li, T., *JSEN June 2013 2214-2216*
- Shum, P. P., see Mignani, A. G., *JSEN March 2013 889*
- Shur, M., see Gutin, A., *JSEN Jan. 2013 55-62*
- Shur, M., see Hindle, F., *JSEN Jan. 2013 7*
- Shur, M. S., see Choi, J. K., *JSEN Jan. 2013 80-88*
- Shur, M. S. S., see Rummyantsev, S., *JSEN Aug. 2013 2818-2822*
- Shyam, P., see Veeramani, M. S., *JSEN May 2013 1941-1948*
- Siddique, N. A., see Biswas, A. K., *JSEN Nov. 2013 4423-4431*
- Siden, J., see Gao, J., *JSEN May 2013 1824-1834*
- Sielmann, C. J., Busch, J. R., Stoerber, B., and Walus, K., Inkjet Printed All-Polymer Flexural Plate Wave Sensors; *JSEN Oct. 2013 4005-4013*
- Siew, W. H., see Ishak, A. M., *JSEN Aug. 2013 3025-3031*
- Sifuentes, E., see Cota-Ruiz, J., *JSEN June 2013 2181-2191*
- Silay, K. M., Dehollain, C., and Declercq, M., A Closed-Loop Remote Powering Link for Wireless Cortical Implants; *JSEN Sept. 2013 3226-3235*
- Silva, A. F. D., see Peixoto, A. C. M., *JSEN Sept. 2013 3319-3324*
- Silverajan, B., see Savolainen, T., *JSEN Oct. 2013 3511-3519*
- Silvestri, S., see Battista, L., *JSEN Sept. 2013 3312-3318*
- Silvestri, S., see Taffoni, F., *JSEN Nov. 2013 4561-4568*
- Singal, K., Peng, P., Rajamani, R., and Bechtold, J., Measurement of Tension in a String Using an Array of Capacitive Force Sensors; *JSEN Feb. 2013 792-800*
- Singh, B. K., see Singh, K., *JSEN Dec. 2013 4912-4917*
- Singh, B. K., see Kumar, P., *JSEN June 2013 2161-2165*
- Singh, H. K., Meitei, N. C., Sarkar, S. T., Tiwari, D., and Bezboruah, T., Truly Nonintrusive Liquid-Level-Sensing Method Based on Lateral Displacement Effect of Light Rays; *JSEN Feb. 2013 801-806*
- Singh, K., Kumar, P., and Singh, B. K., An Associative Relational Impact of Water Quality on Crop Yield: A Comprehensive Index Analysis Using LISS-III Sensor; *JSEN Dec. 2013 4912-4917*
- Sirawattananon, C., see Mitatha, S., *JSEN July 2013 2705-2710*
- Sivonthaman, S., see Moradi, M., *JSEN Feb. 2013 637-643*
- Sizov, I., see Globus, T., *JSEN Jan. 2013 72-79*
- Skafidas, E., see Qiu, W., *JSEN April 2013 1216-1222*
- Skibniewski, F. W., see Dziuda, L., *JSEN Dec. 2013 4986-4991*
- Skinner, J. L., see Loyola, B. R., *JSEN June 2013 2357-2367*
- Slekas, G., see Kancleris, Z., *JSEN April 2013 1143-1147*
- Slobodian, P., Riha, P., Benlikaya, R., Svoboda, P., and Petras, D., A Flexible Multifunctional Sensor Based on Carbon Nanotube/Polyurethane Composite; *JSEN Oct. 2013 4045-4048*
- Soininen, J., see Savolainen, T., *JSEN Oct. 2013 3511-3519*
- Soldovieri, F., see Gennarelli, G., *JSEN May 2013 1857-1864*
- Soloperto, G., see Casciaro, S., *JSEN June 2013 2305-2312*
- Son, Y.-J., see Jeong, H.-H., *JSEN Jan. 2013 351-358*
- Sonehara, M., see Hirokubo, N., *JSEN Aug. 2013 2930-2936*
- Song, B., see Chen, H., *JSEN March 2013 949-958*
- Song, F., see Ding, G., *JSEN Nov. 2013 4247-4255*
- Song, H., see Liu, Y., *JSEN July 2013 2699-2704*
- Song, J., see Chen, R., *JSEN Jan. 2013 24-30*
- Song, J., see Viikari, V., *JSEN April 2013 1180-1186*
- Song, K., and Mazumder, P., Design of Highly Selective Metamaterials for Sensing Platforms; *JSEN Sept. 2013 3377-3385*
- Song, N., see Yuan, R., *JSEN Jan. 2013 211-216*
- Song, Q., see Tong, L., *JSEN May 2013 1849-1856*

- Song, S.**, see Hu, C., *JSEN Nov. 2013 4569-4575*
- Sonkusale, S. R.**, see Liu, Y., *JSEN Jan. 2013 202-210*
- Soroushmehr, S. M. R.**, see Fooladgar, F., *JSEN Nov. 2013 4236-4246*
- Sou, G.**, see Rhouni, A., *JSEN Jan. 2013 159-166*
- Southgate, M. J.**, see Andrews, D. A., *JSEN Dec. 2013 4948-4954*
- Souza, R. D.**, see Brante, G., *JSEN Nov. 2013 4375-4386*
- Spakov, O.**, see Rantanen, V., *JSEN Nov. 2013 4329-4338*
- Spano, F.**, see Massaro, A., *JSEN Feb. 2013 548-555*
- Spiering, V.**, see Torfs, T., *JSEN March 2013 909-915*
- Spulber, I.**, see Bergmann, J. H. M., *JSEN Oct. 2013 4090-4097*
- Srinivas, T.**, see Krishnaswamy, N., *JSEN May 2013 1730-1741*
- Srinivasan, S.**, and Pandharipande, A., Self-Configuring Scheduling Protocol for Ultrasonic Sensor Systems; *JSEN July 2013 2517-2518*
- Srinivasan, S.**, see Scott, R. H., *JSEN July 2013 2555-2562*
- Srinivasaraghavan, V.**, see Nikkhah, M., *JSEN March 2013 1125-1132*
- Stassi, S.**, see Canavese, G., *JSEN June 2013 2237-2244*
- Staymates, M. E.**, Grandner, J., and Verkouteren, J. R., Pressure-Sensitive Sampling Wands for Homeland Security Applications; *JSEN Dec. 2013 4844-4850*
- Stefanini, C.**, see Servagent, N., *JSEN May 2013 1865-1882*
- Sterken, T.**, see Torfs, T., *JSEN March 2013 909-915*
- Sthalekar, C. C.**, and Koomson, V. J., A CMOS Sensor for Measurement of Cerebral Optical Coefficients Using Non-Invasive Frequency Domain Near Infrared Spectroscopy; *JSEN Sept. 2013 3166-3174*
- Stickley, C.**, see Padasdao, B., *JSEN Nov. 2013 4204-4211*
- Stoeber, B.**, see Sielmann, C. J., *JSEN Oct. 2013 4005-4013*
- Strasser, G.**, see Chen, R., *JSEN Jan. 2013 24-30*
- Striccoli, M.**, see Placido, T., *JSEN Aug. 2013 2834-2841*
- Strobl, J. S.**, see Nikkhah, M., *JSEN March 2013 1125-1132*
- Stroscio, M. A.**, see Brenneman, K. L., *JSEN May 2013 1783-1786*
- Stroscio, M. A.**, see Wu, T.-C., *JSEN May 2013 1549-1553*
- Strutwolf, J.**, see Saeidi, N., *JSEN Nov. 2013 4487-4495*
- Su, D.**, see Zhang, J., *JSEN June 2013 2061-2065*
- Su, D.**, see Sun, H., *JSEN May 2013 2039-2044*
- Su, H.**, Li, J., Hu, J., and Wen, Z., Analysis and Back-Analysis for Temperature Field of Concrete Arch Dam During Construction Period Based on Temperature Data Measured by DTS; *JSEN May 2013 1403-1412*
- Sudheendran, N.**, see Wang, S., *JSEN Nov. 2013 4534-4541*
- Sueoka, K.**, see Takeda, S., *JSEN Sept. 2013 3449-3453*
- Suhling, J. C.**, see Chen, Y., *JSEN June 2013 2066-2076*
- Sullivan, J. C.**, see Macleod, C. N., *JSEN Nov. 2013 4320-4328*
- Sum, C. L.**, see Sun, X., *JSEN Nov. 2013 4527-4533*
- Summan, R.**, see Macleod, C. N., *JSEN Nov. 2013 4320-4328*
- Sun, B. N.**, see Wang, Z. L., *JSEN Nov. 2013 4271-4278*
- Sun, G.**, see Qiao, G., *JSEN April 2013 1141-1142*
- Sun, H.**, Zhang, J., Rong, Q., Feng, D., Du, Y., Zhang, X., Su, D., Zhou, L., Feng, Z., Qiao, X., and Hu, M., A Hybrid Fiber Interferometer for Simultaneous Refractive Index and Temperature Measurements Based on Fabry-Perot/Michelson Interference; *JSEN May 2013 2039-2044*
- Sun, H.**, see Zhang, J., *JSEN June 2013 2061-2065*
- Sun, H.**, see Rong, Q., *JSEN Nov. 2013 4356-4360*
- Sun, J.**, and Kosel, J., Influence of Semiconductor/Metal Interface Geometry in an EMR Sensor; *JSEN Feb. 2013 664-669*
- Sun, Q.**, see Xu, Z., *JSEN June 2013 2139-2145*
- Sun, S.**, see Ma, J., *JSEN April 2013 1228-1235*
- Sun, T.**, see Alwis, L., *JSEN March 2013 1117-1124*
- Sun, T.**, see Alwis, L., *JSEN Feb. 2013 767-771*
- Sun, T.**, see Scott, R. H., *JSEN July 2013 2555-2562*
- Sun, T.**, see Tu, H., *JSEN June 2013 2192-2199*
- Sun, T.**, see Surre, F., *JSEN March 2013 1036-1043*
- Sun, T.**, see Karimi, M., *JSEN Nov. 2013 4459-4464*
- Sun, X.**, see Li, B., *JSEN April 2013 1288-1300*
- Sun, X.**, Poon, C. K., Chan, G., Sum, C. L., Lee, W. K., Jiang, L., and Pong, P. W. T., Operation-State Monitoring and Energization-Status Identification for Underground Power Cables by Magnetic Field Sensing; *JSEN Nov. 2013 4527-4533*
- Sun, X.**, Zhai, C., and Wang, X., Amperometric Acetylcholinesterase Biosensor Based on O-Carboxymethyl Chitosan-Gold Nanoparticle Nanocomposite by In-Situ Synthesis Method; *JSEN Jan. 2013 172-179*
- Sun, Y.**, see Li, J., *JSEN Dec. 2013 4944-4947*
- Sun, Z.**, see Taghvaeeyan, S., *JSEN Aug. 2013 3106-3114*
- Sundaraj, K.**, see Islam, M. A., *JSEN July 2013 2499-2516*
- Sung, G.-M.**, and Yu, C.-P., 2-D Differential Folded Vertical Hall Device Fabricated on a P-Type Substrate Using CMOS Technology; *JSEN June 2013 2253-2262*
- Sunny, Mishra, V. N.**, Dwivedi, R., and Das, R. R., Classification of Gases/Odors Using Dynamic Responses of Thick Film Gas Sensor Array; *JSEN Dec. 2013 4924-4930*
- Sunny, Mishra, V. N.**, Dwivedi, R., and Das, R. R., Gases/Odors Identification With Artificial Immune Recognition System Using Thick Film Gas Sensor Array Responses; *JSEN Aug. 2013 3039-3045*
- Surakka, V.**, see Rantanen, V., *JSEN Nov. 2013 4329-4338*
- Suran, S.**, see Goudar, V. S., *JSEN Dec. 2013 4817-4823*
- Surapaneni, R.**, see Guo, Q., *JSEN Nov. 2013 4496-4505*
- Surre, F.**, see Scott, R. H., *JSEN July 2013 2555-2562*
- Surre, F.**, Sun, T., and Grattan, K. T., Fiber Optic Strain Monitoring for Long-Term Evaluation of a Concrete Footbridge Under Extended Test Conditions; *JSEN March 2013 1036-1043*
- Suryadevara, N. K.**, see Kelly, S. D. T., *JSEN Oct. 2013 3846-3853*
- Suster, M. A.**, see Guo, Q., *JSEN Nov. 2013 4496-4505*
- Suzuki, T.**, Kondo, T., Ogawa, Y., Kamba, S., and Kondo, N., Detection of SiO₂ Thin Layer by Using a Metallic Mesh Sensor; *JSEN Dec. 2013 4972-4976*
- Svoboda, P.**, see Slobodian, P., *JSEN Oct. 2013 4045-4048*
- Swan, M.**, see Maier, R. R. J., *JSEN March 2013 969-979*
- Swart, J. W.**, see Campos, F. S., *JSEN May 2013 1554-1563*
- Swierczewski, R.**, Vazquez, J., Hedley, J., Birch, M., and Redfern, C., Microsystem for Real Time High Resolution Measurement of Cell Forces; *JSEN May 2013 1602-1609*
- Sydanheimo, L.**, see Vena, A., *JSEN Dec. 2013 4627-4637*
- Szu, H. H.**, see Morabito, F. C., *JSEN Sept. 2013 3255-3262*
- Szu, H. H.**, see Lay-Ekuakille, A., *JSEN Sept. 2013 3165*

T

- Tang, Y.,** Zhang, Y., Fedder, G. K., and Carley, L. R., A Dual Probe STM Imaging System and a Low Noise Switched-Capacitor Transimpedance Amplifier; *JSEN Aug. 2013* 2984-2992
- Tang, Y.,** see Liao, W., *JSEN Aug. 2013* 2873-2881
- Tang, Y. Y.,** see Yang, W., *JSEN June 2013* 2313-2321
- Tang, Y.-Z.,** Chen, X., Yang, X.-J., Shen, R.-F., Yang, X.-D., and Xu, C.-Z., The Novel Carbon Nanomaterials Electrochemical Sensor for Determination of Trace Aluminum in Human Body Fluids With 8-Hydroxyquinoline; *JSEN Sept. 2013* 3270-3275
- Tanimoto, Y.,** see Watanabe, T., *JSEN Jan. 2013* 89-99
- Tao, N.,** see Chen, C., *JSEN May 2013* 1748-1755
- Tao, X. M.,** see Zhang, Z. F., *JSEN May 2013* 1478-1482
- Tapiador, J. E.,** see Martin, H., *JSEN Oct. 2013* 3537-3547
- Tarre, A.,** see Rosental, A., *JSEN May 2013* 1648-1655
- Tarricone, L.,** see Catarinucci, L., *JSEN Feb. 2013* 783-791
- Tarricone, L.,** see Congedo, F., *JSEN Sept. 2013* 3454-3461
- Tartagni, M.,** see Romani, A., *JSEN March 2013* 916-925
- Tasaltin, C.,** see Saraoglu, H. M., *JSEN Nov. 2013* 4229-4235
- Tata, U.,** Cao, H., Nguyen, C. M., and Chiao, J.-C., Flexible Sputter-Deposited Carbon Strain Sensor; *JSEN Feb. 2013* 444-445
- Tata, U.,** see Nguyen, C. M., *JSEN Oct. 2013* 3857-3864
- Tatinati, S.,** Veluvolu, K. C., Hong, S.-M., Latt, W. T., and Ang, W. T., Physiological Tremor Estimation With Autoregressive (AR) Model and Kalman Filter for Robotics Applications; *JSEN Dec. 2013* 4977-4985
- Tavli, B.,** see Karakus, C., *JSEN May 2013* 1999-2008
- Taya, J.,** see Kimura, M., *JSEN May 2013* 1771-1774
- Tedesco, S.,** see Catarinucci, L., *JSEN Feb. 2013* 783-791
- Tentzeris, M. M.,** see Vena, A., *JSEN Dec. 2013* 4627-4637
- Tentzeris, M. M.,** see Shigeta, R., *JSEN Aug. 2013* 2973-2983
- Terasaki, N.,** and Xu, C.-N., Historical-Log Recording System for Crack Opening and Growth Based on Mechanoluminescent Flexible Sensor; *JSEN Oct. 2013* 3999-4004
- Terhorst, A.,** see Dutta, R., *JSEN June 2013* 2374-2381
- Then, Y. L.,** see You, K. Y., *JSEN July 2013* 2563-2570
- Theuwissen, A. J. P.,** see Sarkar, M., *JSEN March 2013* 1065-1073
- Thiel, D. V.,** see Hagem, R. M., *JSEN Aug. 2013* 3144-3151
- Thoelen, R.,** see Broeders, J., *JSEN July 2013* 2659-2665
- Thomas, D.,** see Chen, R., *JSEN Jan. 2013* 24-30
- Thomas, R. E.,** see Hobby, M. J., *JSEN Feb. 2013* 492-500
- Thompson, B.,** and Yoon, H.-S., Aerosol-Printed Strain Sensor Using PEDOT:PSS; *JSEN Nov. 2013* 4256-4263
- Thomson, D. J.,** see Emadi, T. A., *JSEN Feb. 2013* 519-527
- Thomson, D. J.,** see Bhadra, S., *JSEN June 2013* 2428-2436
- Thornell, G.,** see Palmer, K., *JSEN Jan. 2013* 359-370
- Thothahewa, K. M. S.,** see Keong, H. C., *JSEN May 2013* 1949-1958
- Thyagarajan, K.,** see Tiwari, U., *JSEN April 2013* 1315-1319
- Tian, B. B.,** see Biswas, A. K., *JSEN Nov. 2013* 4423-4431
- Tian, C.,** see Xiang, C., *JSEN Oct. 2013* 3721-3732
- Tian, G. Y.,** see Bai, L., *JSEN June 2013* 2094-2101
- Tian, W.-C.,** Ho, Y.-H., and Chou, C.-H., Photoactivated TiO₂ Gas Chromatograph Detector for Diverse Chemical Compounds Sensing at Room Temperature; *JSEN May 2013* 1725-1729
- Tian, Y.,** see Zou, X., *JSEN June 2013* 2155-2160
- Tiwari, D.,** see Singh, H. K., *JSEN Feb. 2013* 801-806
- Tiwari, U.,** Thyagarajan, K., Shenoy, M. R., and Jain, S. C., EDF-Based Edge-Filter Interrogation Scheme for FBG Sensors; *JSEN April 2013* 1315-1319
- Tiwari, U.,** see Nidhi, *JSEN Nov. 2013* 4139-4140
- Tognola, G.,** Paglialonga, A., and Chiaramello, E., Bispectral Analysis of Transient Evoked Otoacoustic Emissions to Study Factors Influencing Cochlear Non-Linearities: Normative Data in Young Adults; *JSEN Sept. 2013* 3249-3254
- Toko, K.,** see Tanaka, Y., *JSEN Nov. 2013* 4452-4458
- Toko, K.,** see Tahara, Y., *JSEN Aug. 2013* 3001-3011
- Tokunaga, T.,** see Naito, T., *JSEN Aug. 2013* 2899-2905
- Tong, L.,** Song, Q., Ge, Y., and Liu, M., HMM-Based Human Fall Detection and Prediction Method Using Tri-Axial Accelerometer; *JSEN May 2013* 1849-1856
- Torfs, T.,** Sterken, T., Brebels, S., Santana, J., van den Hoven, R., Spiering, V., Bertsch, N., Trapani, D., and Zonta, D., Low Power Wireless Sensor Network for Building Monitoring; *JSEN March 2013* 909-915
- Trabacca, A.,** see Lay-Ekuakille, A., *JSEN Sept. 2013* 3331-3340
- Trabelsi, A.,** and Boukadoum, M., Comparison of Two CMOS Front-End Transimpedance Amplifiers for Optical Biosensors; *JSEN Feb. 2013* 657-663
- Trapani, D.,** see Torfs, T., *JSEN March 2013* 909-915
- Tretyakov, M. Y.,** see Parshin, V. V., *JSEN Jan. 2013* 18-23
- Triantafyllou, M.,** see Asadnia, M., *JSEN Oct. 2013* 3918-3925
- Triantis, I. F.,** see Kassanos, P., *JSEN June 2013* 2229-2236
- Trivedi, V.,** see Anand, A., *JSEN Feb. 2013* 723-727
- Troia, M.,** see Massaro, A., *JSEN Feb. 2013* 548-555
- Troster, G.,** see Mattana, G., *JSEN Oct. 2013* 3901-3909
- Throwbridge, D.,** see Wujcik, E. K., *JSEN Sept. 2013* 3430-3436
- Tsai, B.,** see Ness, S. J., *JSEN March 2013* 959-968
- Tsai, S.-W.,** see Chiou, J.-C., *JSEN June 2013* 2466-2473
- Tsai, T. Y.,** see Wu, Y. L., *JSEN June 2013* 2368-2373
- Tsai, T.-Y.,** Chang, S.-J., Weng, W.-Y., Liu, S., Hsu, C.-L., Hsueh, H.-T., and Hsueh, T.-J., β -Ga₂O₃ Nanowires-Based Humidity Sensors Prepared on GaN/Sapphire Substrate; *JSEN Dec. 2013* 4891-4896
- Tsao, C.-C.,** Lin, F.-Y., Liou, J.-W., Wen, P.-H., Peng, C.-C., and Liu, T.-S., Force Sensor Design and Measurement for Endodontic Therapy; *JSEN July 2013* 2636-2642
- Tse, C. K.,** see Cheng, C.-T., *JSEN June 2013* 2413-2422
- Tseng, H.-W.,** and Chuang, Y.-R., A Cross-Layer Judgment Scheme for Solving Retransmission Problem in IEEE 802.15.4-Based Wireless Body Sensor Networks; *JSEN Aug. 2013* 3124-3135
- Tseng, S.-C.,** see Chou, J.-C., *JSEN April 2013* 1363-1370
- Tseng, Y.-C.,** see Wu, C.-H., *JSEN May 2013* 1522-1533
- Tsow, F.,** see Chen, C., *JSEN May 2013* 1748-1755
- Tu, H.,** Sun, T., and Grattan, K. T., SPR-Based Optical Fiber Sensors Using Gold-Silver Alloy Particles as the Active Sensing Material; *JSEN June 2013* 2192-2199
- Tudor, M. J.,** see Zhu, D., *JSEN Feb. 2013* 691-700
- Tulip, F. S.,** Eteshola, E., Desai, S., Mostafa, S., Roopa, S., and Islam, S. K., Detection of Transplant Rejection Chemokine Protein Biomarker in Physiological Salt Concentration; *JSEN Feb. 2013* 438-439
- Turkseven, M.,** and Ueda, J., Analysis of an MRI Compatible Force Sensor for Sensitivity and Precision; *JSEN Feb. 2013* 476-486
- Tyagi, A. K.,** see Das, A., *JSEN July 2013* 2757-2762

U

V

- van Schaijk, R., see Leonov, V., *JSEN Sept. 2013 3369-3376*
- Varaprasad, G., High Stable Power Aware Multicast Algorithm for Mobile Ad Hoc Networks; *JSEN May 2013 1442-1446*
- Vardoy, A.-S. B., Larsson, A., Gislerud, K. O., Bhatti, H., Imenes, K., and Seeberg, T. M., Stretchable Conductors Enabled by Metal Coated Polymer Spheres; *JSEN Oct. 2013 4049-4055*
- Varma, M. M., see Goudar, V. S., *JSEN Dec. 2013 4817-4823*
- Varma, M. M., see Krishnaswamy, N., *JSEN May 2013 1730-1741*
- Varum, H., see Antunes, P. F. C., *JSEN May 2013 1716-1720*
- Vazquez, J., see Swierczewski, R., *JSEN May 2013 1602-1609*
- Veeramani, M. S., Shyam, P., Ratchagar, N. P., Chadha, A., Bhattacharya, E., and Pavan, S., A Miniaturized pH Sensor With an Embedded Counter Electrode and a Readout Circuit; *JSEN May 2013 1941-1948*
- Vellekoop, M. J., see Weber, E., *JSEN Dec. 2013 4773-4779*
- Veluvolu, K. C., see Tatinati, S., *JSEN Dec. 2013 4977-4985*
- Vena, A., Koski, K., Moradi, E., Babar, A. A., Sydanheimo, L., Ukkonen, L., and Tentzeris, M. M., An Embroidered Two-Dimensional Chipless Strain Sensor for Wireless Structural Deformation Monitoring; *JSEN Dec. 2013 4627-4637*
- Venckevicius, R., see Kasalynas, I., *JSEN Jan. 2013 50-54*
- Venesvirta, H., see Rantanen, V., *JSEN Nov. 2013 4329-4338*
- Venkataraman, D., see Satapathi, S., *JSEN June 2013 2329-2333*
- Venkatraman, B. H., see Satapathi, S., *JSEN June 2013 2329-2333*
- Vergallo, P., see Labate, D., *JSEN July 2013 2666-2674*
- Vergallo, P., see Lay-Ekuakille, A., *JSEN Sept. 2013 3331-3340*
- Verho, J., see Rantanen, V., *JSEN Nov. 2013 4329-4338*
- Verkouteren, J. R., see Staymates, M. E., *JSEN Dec. 2013 4844-4850*
- Verna, A., see Canavese, G., *JSEN June 2013 2237-2244*
- Verret, L. S., see Charlebois, M., *JSEN Jan. 2013 229-233*
- Vetek, A., see Rantanen, V., *JSEN Nov. 2013 4329-4338*
- Vetelino, J. F., see Duy, W. S. D., *JSEN Dec. 2013 4780-4785*
- Viikari, V., Song, J., and Seppa, H., Passive Wireless Sensor Platform Utilizing a Mechanical Resonator; *JSEN April 2013 1180-1186*
- Vinel, A., see Le, A., *JSEN Oct. 2013 3685-3692*
- Visokolov, G., see Savuskan, V., *JSEN June 2013 2322-2328*
- Vitushinsky, R., see Offermans, P., *JSEN Aug. 2013 2823-2827*
- Vogt, D. M., Park, Y.-L., and Wood, R. J., Design and Characterization of a Soft Multi-Axis Force Sensor Using Embedded Microfluidic Channels; *JSEN Oct. 2013 4056-4064*
- Voigt, T., see Raza, S., *JSEN Oct. 2013 3711-3720*
- Vuong, J. B., see Huang, B., *JSEN April 2013 1371-1379*
- Vyas, R. J., see Shigeta, R., *JSEN Aug. 2013 2973-2983*
- W**
- Wagner, P., see Broeders, J., *JSEN July 2013 2659-2665*
- Wagner, S., see Celik-Butler, Z., *JSEN Oct. 2013 3854-3856*
- Walker, G. C., see Bowen, J. W., *JSEN Jan. 2013 100-110*
- Walker, G. C., see Hadjiloucas, S., *JSEN Jan. 2013 111-123*
- Walton, S. G., see Nagareddy, V. K., *JSEN Aug. 2013 2810-2817*
- Walus, K., see Sielmann, C. J., *JSEN Oct. 2013 4005-4013*
- Wan, Y., see He, J., *JSEN Oct. 2013 3826-3836*
- Wang, A., see Johnson, B., *JSEN Sept. 2013 3211-3218*
- Wang, B., see Liao, W., *JSEN Aug. 2013 2873-2881*
- Wang, B., see Du, L., *JSEN Dec. 2013 4648-4662*
- Wang, C., Lu, Q., and Cheng, L., Novel Type of Temperature Self-Compensating Acceleration Transducer Based on OFBG; *JSEN Aug. 2013 3012-3013*
- Wang, C., Daneshmand, M., Dohler, M., Mao, X., Hu, R. Q., and Wang, H., Guest Editorial - Special Issue on Internet of Things (IoT): Architecture, Protocols and Services; *JSEN Oct. 2013 3505-3510*
- Wang, C.-H., see Jiang, J.-A., *JSEN Oct. 2013 3754-3766*
- Wang, D.-H., see Jia, P.-G., *JSEN June 2013 2334-2340*
- Wang, G., Li, Y., and Wang, R., New Semidefinite Relaxation Method for Acoustic Energy-Based Source Localization; *JSEN May 2013 1514-1521*
- Wang, H., see Wang, C., *JSEN Oct. 2013 3505-3510*
- Wang, H., see Yao, R., *JSEN Oct. 2013 3637-3644*
- Wang, I.-S., see Huang, C.-H., *JSEN June 2013 2459-2465*
- Wang, J., see Lv, J., *JSEN April 2013 1207-1215*
- Wang, J., see Mao, X., *JSEN Oct. 2013 3785-3792*
- Wang, J., see Chen, D., *JSEN June 2013 2217-2222*
- Wang, J., see Ding, G., *JSEN Nov. 2013 4247-4255*
- Wang, J., Shen, C., Lu, Y., Chen, D., Zhong, C., Chu, J., Dong, X., and Chan, C. C., Liquid Refractive Index Sensor Based on a Polarization-Maintaining Fiber Loop Mirror; *JSEN May 2013 1721-1724*
- Wang, J.-J., see Chen, N.-K., *JSEN Sept. 2013 3437-3441*
- Wang, K., see Du, J., *JSEN Dec. 2013 4690-4701*
- Wang, L., see Kazmierski, T. J., *JSEN Nov. 2013 4393-4401*
- Wang, M. L., see Liu, Y., *JSEN Jan. 2013 202-210*
- Wang, P., Brambilla, G., Ding, M., Lee, T., Bo, L., Semenova, Y., Wu, Q., and Farrell, G., Enhanced Refractometer Based on Periodically Tapered Small Core Singlemode Fiber; *JSEN Jan. 2013 180-185*
- Wang, Q., see Xiong, J., *JSEN Sept. 2013 3421-3429*
- Wang, Q., see Guo, Z.-Q., *JSEN Oct. 2013 3605-3615*
- Wang, R., Zhang, J., Weng, Y., Rong, Q., Ma, Y., Feng, Z., Hu, M., and Qiao, X., Highly Sensitive Curvature Sensor Using an In-Fiber Mach-Zehnder Interferometer; *JSEN May 2013 1766-1770*
- Wang, R., see Wang, G., *JSEN May 2013 1514-1521*
- Wang, R., see Zhang, J., *JSEN June 2013 2061-2065*
- Wang, R., see Cao, Z., *JSEN May 2013 1447-1451*
- Wang, R., see Li, H., *JSEN June 2013 2245-2252*
- Wang, R., see Rong, Q., *JSEN Nov. 2013 4356-4360*
- Wang, R., see Rong, Q., *JSEN May 2013 1473-1477*
- Wang, S., Sherlock, T., Salazar, B., Sudheendran, N., Manapuram, R. K., Kourantzi, K., Ruchhoeft, P., Willson, R. C., and Larin, K. V., Detection and Monitoring of Microparticles Under Skin by Optical Coherence Tomography as an Approach to Continuous Glucose Sensing Using Implanted Retroreflectors; *JSEN Nov. 2013 4534-4541*
- Wang, S. S., and Chen, Z.-P., LCM: A Link-Aware Clustering Mechanism for Energy-Efficient Routing in Wireless Sensor Networks; *JSEN Feb. 2013 728-736*
- Wang, S.-B., see Lin, Z.-D., *JSEN June 2013 2423-2427*
- Wang, W., see Zhang, Z., *JSEN June 2013 2109-2114*
- Wang, W., see Yao, R., *JSEN Oct. 2013 3637-3644*
- Wang, W., see Xue, H., *JSEN Nov. 2013 4220-4223*
- Wang, W. J., see Wang, Z. L., *JSEN Nov. 2013 4271-4278*
- Wang, W.-C., see Liu, Z.-H., *JSEN Oct. 2013 4098-4103*
- Wang, W.-Q., Phased-MIMO Radar With Frequency Diversity for Range-Dependent Beamforming; *JSEN April 2013 1320-1328*
- Wang, X., see Arakawa, T., *JSEN Aug. 2013 2842-2848*
- Wang, X., see Sun, X., *JSEN Jan. 2013 172-179*
- Wang, X., see Zou, X., *JSEN June 2013 2155-2160*
- Wang, Y., see Xie, D., *JSEN Oct. 2013 3667-3676*
- Wang, Y., Liu, Y., Leung, H., Chen, R., and Li, A., A Multi-Bit Identification Protocol for RFID Tag Reading; *JSEN Oct. 2013 3527-3536*
- Wang, Y., see Li, X., *JSEN Feb. 2013 574-580*
- Wang, Y., see Watanabe, T., *JSEN Jan. 2013 89-99*
- Wang, Z., see Yao, J., *JSEN Sept. 2013 3472-3482*
- Wang, Z., see Mu, X., *JSEN Oct. 2013 3976-3981*
- Wang, Z. L., Chang, J., Zhang, S. S., Lv, G. P., Wang, W. J., Jiang, S., Liu, X. Z., Liu, X. H., Luo, S., Sun, B. N., and Liu, Y. N., Spatial Resolution Improvement of Distributed Raman Temperature Measurement System; *JSEN Nov. 2013 4271-4278*
- Wardak, C., see Lenik, J., *JSEN Dec. 2013 4638-4647*
- Wardlaw, J. L., Karaman, I., and Karsilayan, A., Low-Power Circuits and Energy Harvesting for Structural Health Monitoring of Bridges; *JSEN Feb. 2013 709-722*
- Watanabe, K., see Kurihara, Y., *JSEN Sept. 2013 3325-3330*
- Watanabe, M., see Chen, B., *JSEN Nov. 2013 4212-4219*
- Watanabe, T., Boubanga-Tombet, S. A., Tanimoto, Y., Fateev, D., Popov, V., Coquillat, D., Knap, W., Meziani, Y. M., Wang, Y., Minamide, H., Ito, H., and Otsuji, T., InP- and GaAs-Based Plasmonic High-Electron-Mobility Transistors for Room-Temperature Ultrahigh-Sensitive Terahertz Sensing and Imaging; *JSEN Jan. 2013 89-99*
- Water, W., see Ji, L.-W., *JSEN Dec. 2013 4940-4943*
- Watkins, J. M., see Hatime, H., *JSEN Jan. 2013 253-262*
- Weber, E., Keplinger, F., and Vellekoop, M. J., On-Chip Light Modulation Applying Optofluidic Principles; *JSEN Dec. 2013 4773-4779*
- Wei, H.-Y., see Li, L., *JSEN Jan. 2013 314-320*
- Wei, W., see Xie, D., *JSEN Oct. 2013 3667-3676*
- Wei, X., see Liu, Z., *JSEN July 2013 2523-2534*
- Wen, C.-Y., see Wu, M.-F., *JSEN Nov. 2013 4413-4422*
- Wen, C.-Y., see Chen, Y.-C., *JSEN June 2013 2166-2180*
- Wen, P.-H., see Tsao, C.-C., *JSEN July 2013 2636-2642*
- Wen, Z., see Su, H., *JSEN May 2013 1403-1412*
- Wen, Z., see Chen, J., *JSEN May 2013 1656-1661*

- Weng, W. Y., see Wu, Y. L., *JSEN June 2013 2368-2373*
- Weng, W. Y., see Huang, Z.-D., *JSEN Sept. 2013 3462-3467*
- Weng, W.-Y., see Huang, Z.-D., *JSEN April 2013 1187-1191*
- Weng, W.-Y., see Tsai, T.-Y., *JSEN Dec. 2013 4891-4896*
- Weng, Y., see Wang, R., *JSEN May 2013 1766-1770*
- Weng, Y., see Rong, Q., *JSEN May 2013 1473-1477*
- Werneck, M. M., see de Assumpcao Ribeiro, B., *JSEN April 2013 1259-1264*
- Wheeler, V. D., see Nagareddy, V. K., *JSEN Aug. 2013 2810-2817*
- White, N. D. G., see Emadi, T. A., *JSEN Feb. 2013 519-527*
- White, N. M., see Zhu, D., *JSEN Feb. 2013 691-700*
- White, R. M., see Xu, Q. R., *JSEN March 2013 1055-1064*
- White, R. M., see Paprotny, I., *JSEN Jan. 2013 190-201*
- Whiteside, V. R., see Chen, R., *JSEN Jan. 2013 24-30*
- Wilamowska-Korsak, M., see Ju, Z., *JSEN Sept. 2013 3302-3311*
- Wilkins, R., see Gaura, E. I., *JSEN Oct. 2013 3816-3825*
- Willson, R. C., see Wang, S., *JSEN Nov. 2013 4534-4541*
- Wilson, S. J., see Valavanis, A., *JSEN Jan. 2013 37-43*
- Wo, J., see Xu, Z., *JSEN June 2013 2139-2145*
- Wong, E., see Biswas, A. K., *JSEN Nov. 2013 4423-4431*
- Wong, K.-W., see Zhou, J., *JSEN July 2013 2750-2756*
- Woo, W. L., see Bai, L., *JSEN June 2013 2094-2101*
- Wood, M. P., and Ozanyan, K. B., Concentration and Temperature Tomography at Elevated Pressures; *JSEN Aug. 2013 3060-3066*
- Wood, R. J., see Chossat, J.-B., *JSEN Sept. 2013 3405-3414*
- Wood, R. J., see Vogt, D. M., *JSEN Oct. 2013 4056-4064*
- Woolley, A., see Ness, S. J., *JSEN March 2013 959-968*
- Woytasik, M., see Shahosseini, I., *JSEN Jan. 2013 273-284*
- Wright, L. K., see Scholten, K., *JSEN June 2013 2146-2154*
- Wright, N. G., see Nagareddy, V. K., *JSEN Aug. 2013 2810-2817*
- Wright, P. K., see Xu, Q. R., *JSEN March 2013 1055-1064*
- Wright, P. K., see Paprotny, I., *JSEN Jan. 2013 190-201*
- Wu, C., see Cho, L.-H., *JSEN Aug. 2013 3073-3078*
- Wu, C.-H., and Tseng, Y.-C., Deploying Sensors for Gravity Measurement in a Body-Area Inertial Sensor Network; *JSEN May 2013 1522-1533*
- Wu, C.-Z., see Ji, L.-W., *JSEN Dec. 2013 4940-4943*
- Wu, D., Bao, L., and Liu, C. H., Scalable Channel Allocation and Access Scheduling for Wireless Internet-of-Things; *JSEN Oct. 2013 3596-3604*
- Wu, D.-G., see Chou, J.-C., *JSEN April 2013 1363-1370*
- Wu, E. H.-K., see Sahu, P. K., *JSEN Aug. 2013 3115-3123*
- Wu, H., Liu, H., and Liu, D., Two-Dimensional Direction Recognition Using Uniaxial Tactile Arrays; *JSEN Dec. 2013 4897-4903*
- Wu, M.-F., Chen, C.-L., Wen, C.-Y., and Hsu, J.-Y., Design of Pervasive Rehabilitation Monitoring for Chronic Obstructive Pulmonary Disease; *JSEN Nov. 2013 4413-4422*
- Wu, N., see Yang, F., *JSEN April 2013 1192-1199*
- Wu, N., see Zou, X., *JSEN June 2013 2155-2160*
- Wu, Q., see Wang, P., *JSEN Jan. 2013 180-185*
- Wu, Q., see Ding, G., *JSEN Nov. 2013 4247-4255*
- Wu, R.-H., see Chuang, K.-C., *JSEN Jan. 2013 389-399*
- Wu, S., see Lundquist, E. J., *JSEN April 2013 1172-1179*
- Wu, S. Y., see Lu, X., *JSEN April 2013 1245-1251*
- Wu, S.-L., see Chen, T.-P., *JSEN June 2013 2115-2119*
- Wu, S.-L., see Huang, Z.-D., *JSEN April 2013 1187-1191*
- Wu, S.-L., see Huang, Z.-D., *JSEN Sept. 2013 3462-3467*
- Wu, T.-C., Zhao, G., Lu, H., Dutta, M., and Stroschio, M. A., Quantum-Dot-Based Aptamer Beacons for K^+ Detection; *JSEN May 2013 1549-1553*
- Wu, X., see Xiang, C., *JSEN Oct. 2013 3721-3732*
- Wu, Y. L., Chang, S.-J., Weng, W. Y., Liu, C. H., Tsai, T. Y., Hsu, C. L., and Chen, K. C., Ga_2O_3 Nanowire Photodetector Prepared on SiO_2/Si Template; *JSEN June 2013 2368-2373*
- Wu, Z., Chen, X., Zhu, S., Zhou, Z., Yao, Y., Quan, W., and Liu, B., Room Temperature Methane Sensor Based on Graphene Nanosheets/Polyaniline Nanocomposite Thin Film; *JSEN Feb. 2013 777-782*
- Wujcik, E. K., Blasdel, N. J., Trowbridge, D., and Monty, C. N., Ion Sensor for the Quantification of Sodium in Sweat Samples; *JSEN Sept. 2013 3430-3436*
- Xiang, C., Yang, P., Tian, C., Yan, Y., Wu, X., and Liu, Y., PassFit: Participatory Sensing and Filtering for Identifying Truthful Urban Pollution Sources; *JSEN Oct. 2013 3721-3732*
- Xiang, Y., see Lan, J., *JSEN July 2013 2720-2728*
- Xiao, T., see Li, X., *JSEN Feb. 2013 574-580*
- Xiao, X., see Sheng, X., *JSEN Oct. 2013 3733-3741*
- Xie, D., Wei, W., Wang, Y., and Zhu, H., Tradeoff Between Throughput and Energy Consumption in Multirate Wireless Sensor Networks; *JSEN Oct. 2013 3667-3676*
- Xie, H., see Liao, W., *JSEN Aug. 2013 2873-2881*
- Xie, L., Feng, Y., Mantysalo, M., Chen, Q., and Zheng, L.-R., Integration of f-MWCNT Sensor and Printed Circuits on Paper Substrate; *JSEN Oct. 2013 3948-3956*
- Xie, S., see Li, Y., *JSEN May 2013 2032-2038*
- Xin, Y., see Qi, F., *JSEN Sept. 2013 3468-3471*
- Xiong, J., Xu, W., Liao, W., Wang, Q., Liu, J., and Liang, Q., Eye Control System Base on Ameliorated Hough Transform Algorithm; *JSEN Sept. 2013 3421-3429*
- Xiong, P., see Li, F., *JSEN Oct. 2013 3677-3684*
- Xiong, R., see Xue, H., *JSEN Nov. 2013 4220-4223*
- Xu, C.-N., see Terasaki, N., *JSEN Oct. 2013 3999-4004*
- Xu, C.-Z., see Tang, Y.-Z., *JSEN Sept. 2013 3270-3275*
- Xu, C.-Z., see Li, L., *JSEN Jan. 2013 314-320*
- Xu, F., see Cao, Z., *JSEN May 2013 1447-1451*
- Xu, Q., see Paprotny, I., *JSEN Jan. 2013 190-201*
- Xu, Q. R., Paprotny, I., Seidel, M., White, R. M., and Wright, P. K., Stick-On Piezoelectromagnetic AC Current Monitoring of Circuit Breaker Panels; *JSEN March 2013 1055-1064*
- Xu, W., Huang, X. G., and Pan, J. S., Simple Fiber-Optic Refractive Index Sensor Based On Fresnel Reflection and Optical Switch; *JSEN May 2013 1571-1574*
- Xu, W., see Xiong, J., *JSEN Sept. 2013 3421-3429*
- Xu, W., Huang, M.-C., Amini, N., He, L., and Sarrafzadeh, M., eCushion: A Textile Pressure Sensor Array Design and Calibration for Sitting Posture Analysis; *JSEN Oct. 2013 3926-3934*
- Xu, Y., see Yao, J., *JSEN Sept. 2013 3472-3482*
- Xu, Y., see Celik-Butler, Z., *JSEN Oct. 2013 3854-3856*
- Xu, Y., Post-CMOS and Post-MEMS Compatible Flexible Skin Technologies: A Review; *JSEN Oct. 2013 3962-3975*
- Xu, Y., see Chen, D., *JSEN June 2013 2217-2222*
- Xu, Z., Sun, Q., Wo, J., Dai, Y., Li, X., and Liu, D., Volume Strain Sensor Based on Spectra Analysis of In-Fiber Modal Interferometer; *JSEN June 2013 2139-2145*
- Xu, Z., Huang, J., and Zhang, Q., Power Constrained Partially Coherent Distributed Detection Over Fading Multiaccess Channels; *JSEN July 2013 2729-2736*
- Xue, G., see Sheng, X., *JSEN Oct. 2013 3733-3741*
- Xue, H., Meng, H., Wang, W., Xiong, R., Yao, Q., and Huang, B., Single-Mode-Multimode Fiber Structure Based Sensor for Simultaneous Measurement of Refractive Index and Temperature; *JSEN Nov. 2013 4220-4223*

Y

X

Xi, N., see Chen, H., *JSEN March 2013 949-958*

Xi, W., see Yuan, Y., *JSEN Oct. 2013 3837-3845*

+ Check author entry for coauthors

- Yang, H.**, Gu, Q., Aoyama, T., Takaki, T., and Ishii, I., Dynamics-Based Stereo Visual Inspection Using Multidimensional Modal Analysis; *JSEN Dec. 2013 4831-4843*
- Yang, H.**, see Ye, Z., *JSEN May 2013 1425-1433*
- Yang, J.**, see Zhang, T., *JSEN Feb. 2013 510-518*
- Yang, J.**, see Lan, J., *JSEN July 2013 2720-2728*
- Yang, J.**, see Jin, X., *JSEN Jan. 2013 167-171*
- Yang, J.**, see Li, X., *JSEN Feb. 2013 574-580*
- Yang, J.**, see He, H., *JSEN Nov. 2013 4349-4355*
- Yang, K. L.**, see Ho, W. F., *JSEN July 2013 2521-2522*
- Yang, O.**, see Qiao, G., *JSEN April 2013 1141-1142*
- Yang, P.**, see Xiang, C., *JSEN Oct. 2013 3721-3732*
- Yang, R.**, see Chen, H., *JSEN March 2013 949-958*
- Yang, S.-Y.**, see Chou, J.-C., *JSEN Nov. 2013 4180-4187*
- Yang, W.**, see Ye, J., *JSEN Feb. 2013 446-456*
- Yang, W.**, Fang, B., Tang, Y. Y., Qian, J., Qin, X., and Yao, W., A Robust Inclination System With Accurate Calibration of Tilt and Azimuth Angles; *JSEN June 2013 2313-2321*
- Yang, X.-D.**, see Tang, Y.-Z., *JSEN Sept. 2013 3270-3275*
- Yang, X.-D.**, see Li, L., *JSEN Jan. 2013 314-320*
- Yang, X.-J.**, see Tang, Y.-Z., *JSEN Sept. 2013 3270-3275*
- Yang, X.-J.**, see Li, L., *JSEN Jan. 2013 314-320*
- Yang, Y.**, see Jeong, G.-M., *JSEN May 2013 1575-1581*
- Yang, Y.**, see Yamashita, K., *JSEN March 2013 1074-1080*
- Yang, Y.**, and Peng, L., Data Pattern With ECT Sensor and Its Impact on Image Reconstruction; *JSEN May 2013 1582-1593*
- Yang, Y. M.**, see Tang, R., *JSEN Oct. 2013 3991-3998*
- Yao, J.**, Zhu, J., Wang, Z., Xu, Y., and Zhao, Y., Measurement Theory and Experimental Study of Fault-Tolerant Fully Pre-Stressed Parallel Six-Component Force Sensor; *JSEN Sept. 2013 3472-3482*
- Yao, Q.**, see Xue, H., *JSEN Nov. 2013 4220-4223*
- Yao, R.**, Wang, W., Farrokh-Baroughi, M., Wang, H., and Qian, Y., Quality-Driven Energy-Neutralized Power and Relay Selection for Smart Grid Wireless Multimedia Sensor Based IoTs; *JSEN Oct. 2013 3637-3644*
- Yao, W.**, see Yang, W., *JSEN June 2013 2313-2321*
- Yao, X.**, Han, X., Du, X., and Zhou, X., A Lightweight Multicast Authentication Mechanism for Small Scale IoT Applications; *JSEN Oct. 2013 3693-3701*
- Yao, Y.**, see Wu, Z., *JSEN Feb. 2013 777-782*
- Yao, Y.**, see Li, X., *JSEN Dec. 2013 4749-4756*
- Yasin, M.**, see Abdullah, M., *JSEN Nov. 2013 4522-4526*
- Yasutomi, K.**, see Seo, M.-W., *JSEN Aug. 2013 2922-2929*
- Yatabe, R.**, see Tanaka, Y., *JSEN Nov. 2013 4452-4458*
- Yavari, E.**, see Mostafanezhad, I., *JSEN May 2013 1897-1904*
- Ye, G.-C.**, see Chou, J.-C., *JSEN Nov. 2013 4180-4187*
- Ye, G.-C.**, see Chou, J.-C., *JSEN April 2013 1363-1370*
- Ye, J.**, and Yang, W., Evaluation of Electrical Capacitance Tomography Sensors for Concentric Annulus; *JSEN Feb. 2013 446-456*
- Ye, Z.**, Yang, H., Yin, T., Huang, G., and Liu, F., High-Performance Closed-Loop Interface Circuit for High-Q Capacitive Microaccelerometers; *JSEN May 2013 1425-1433*
- Yeh, S.-F.**, and Hsieh, C.-C., Novel Single-Slope ADC Design for Full Well Capacity Expansion of CMOS Image Sensor; *JSEN March 2013 1012-1017*
- Yeh, Y.-C.**, see Shiau, C.-C., *JSEN Oct. 2013 4038-4044*
- Yelon, A.**, see Dufay, B., *JSEN Jan. 2013 379-388*
- Yeom, K.-W.**, see Choi, J.-H., *JSEN Aug. 2013 3079-3089*
- Yi, C.**, see Chen, J., *JSEN May 2013 1656-1661*
- Yi, C.**, see Li, H., *JSEN Oct. 2013 3548-3557*
- Yi, J.**, see Zhang, Y., *JSEN May 2013 1756-1765*
- Yi, Y.-B.**, see Guo, X., *JSEN Aug. 2013 2863-2872*
- Yilmaz, G.**, Atasoy, O., and Dehollain, C., Wireless Energy and Data Transfer for In-Vivo Epileptic Focus Localization; *JSEN Nov. 2013 4172-4179*
- Yin, T.**, see Ye, Z., *JSEN May 2013 1425-1433*
- Yin, Y.**, see Lan, J., *JSEN July 2013 2720-2728*
- Yohannes, I.**, see Assaad, M., *JSEN Feb. 2013 610-617*
- Yoon, H.-S.**, see Thompson, B., *JSEN Nov. 2013 4256-4263*
- Yoshimoto, N.**, see Hisatake, S., *JSEN Jan. 2013 31-36*
- You, K. Y.**, Lee, C. Y., Then, Y. L., Chong, S. H. C., You, L. L., Abbas, Z., and Cheng, E. M., Precise Moisture Monitoring for Various Soil Types Using Handheld Microwave-Sensor Meter; *JSEN July 2013 2563-2570*
- You, L. L.**, see You, K. Y., *JSEN July 2013 2563-2570*
- Young, D. J.**, see Liu, X., *JSEN May 2013 1541-1548*
- Young, D. J.**, see Guo, Q., *JSEN Nov. 2013 4496-4505*
- Young, S. S.**, see Maschal, R. A., *JSEN Jan. 2013 371-378*
- Young, S.-J.**, see Lin, Z.-D., *JSEN June 2013 2423-2427*
- Young, S.-J.**, see Chen, T.-P., *JSEN June 2013 2115-2119*
- Ytterdal, T.**, see Gutin, A., *JSEN Jan. 2013 55-62*
- Yu, B.**, see Cao, Z., *JSEN May 2013 1447-1451*
- Yu, B.**, see Lu, L., *JSEN Nov. 2013 4387-4392*
- Yu, C.-P.**, see Sung, G.-M., *JSEN June 2013 2253-2262*
- Yu, H.**, see Qian, X., *JSEN Dec. 2013 4931-4939*
- Yu, H.**, see Tang, R., *JSEN Oct. 2013 3991-3998*
- Yu, J.**, Chen, G., and Lai, P. T., Study on a Metal-Insulator-Silicon Hydrogen Sensor With LaTiO₃ as Gate Insulator; *JSEN May 2013 1534-1540*
- Yu, J.-S.**, see Oh, S., *JSEN Oct. 2013 3957-3961*
- Yu, M.-C.**, and Leu, J.-S., Kernel Weighted Scheme for Improving Mobile Sensor-Node Connectivity; *JSEN April 2013 1200-1206*
- Yu, S.**, see Chen, X., *JSEN Nov. 2013 4141-4146*
- Yuan, G.**, see Jia, P.-G., *JSEN June 2013 2334-2340*
- Yuan, R.**, Song, N., Zhang, G., and Jin, J., Autonomous Detection of Angle Random Walk and Quantization Noise of Fiber Optic Gyro in Attitude Determination System of Satellite; *JSEN Jan. 2013 211-216*
- Yuan, Y.**, Zhao, J., Qiu, C., and Xi, W., Estimating Crowd Density in an RF-Based Dynamic Environment; *JSEN Oct. 2013 3837-3845*
- Yuce, M. R.**, see Keong, H. C., *JSEN May 2013 1949-1958*
- Yunus, W. M. M.**, see Fen, Y. W., *JSEN May 2013 1413-1418*
- Yupapin, P. P.**, see Mitatha, S., *JSEN July 2013 2705-2710*

Z

- Zabit, U.**, Bernal, O. D., and Bosch, T., Self-Mixing Laser Sensor for Large Displacements: Signal Recovery in the Presence of Speckle; *JSEN Feb. 2013 824-831*
- Zabit, U.**, see Bernal, O. D., *JSEN Dec. 2013 4962-4971*
- Zabit, U.**, Bernal, O. D., and Bosch, T., Design and Analysis of an Embedded Accelerometer Coupled Self-Mixing Laser Displacement Sensor; *JSEN June 2013 2200-2207*
- Zagar, B. G.**, see Holzl, P. A., *JSEN Nov. 2013 4296-4304*
- Zahedi, E.**, see Keikhosravi, A., *JSEN May 2013 1397-1398*
- Zahidi, S. Z. H.**, Aloul, F., Sagahyroon, A., and El-Hajj, W., Optimizing Complex Cluster Formation in MANETs Using SAT/ILP Techniques; *JSEN June 2013 2400-2412*
- Zalevsky, Z.**, see Anand, A., *JSEN Feb. 2013 723-727*
- Zamarreno, C. R.**, see Sanchez, P., *JSEN April 2013 1167-1171*
- Zellers, E. T.**, see Scholten, K., *JSEN June 2013 2146-2154*
- Zellner, P.**, see Alfeeli, B., *JSEN Nov. 2013 4312-4319*
- Zeng, X.**, see Mu, X., *JSEN Oct. 2013 3976-3981*
- Zengerle, R.**, see Kliche, K., *JSEN July 2013 2626-2635*
- Zhai, C.**, see Sun, X., *JSEN Jan. 2013 172-179*
- Zhang, C.**, see Li, H., *JSEN June 2013 2245-2252*
- Zhang, C.**, see Zhang, Z., *JSEN June 2013 2109-2114*
- Zhang, G.**, see Gu, H., *JSEN Feb. 2013 864-869*
- Zhang, G.**, see Liu, Y., *JSEN July 2013 2699-2704*
- Zhang, G.**, see Yuan, R., *JSEN Jan. 2013 211-216*
- Zhang, G.**, Gu, H., Dong, H., Li, L., and He, J., Pressure Sensitization of Brillouin Frequency Shift in Optical Fibers With Double-Layer Polymer Coatings; *JSEN June 2013 2437-2441*
- Zhang, G.**, see Zhu, R., *JSEN March 2013 1105-1109*
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Gases/Odors Identification With Artificial Immune Recognition System Using Thick Film Gas Sensor Array Responses. *Sunny, +, JSEN Aug. 2013 3039-3045*

Phased-MIMO Radar With Frequency Diversity for Range-Dependent Beamforming. *Wang, W.-Q., +, JSEN April 2013 1320-1328*

Two New Estimation Algorithms for Sensor Gain and Phase Errors Based on Different Data Models. *Jiang, J., +, JSEN May 2013 1921-1930*

Arrayed waveguide gratings

Theory and Design of a Novel Integrated Polarimetric Sensor Utilizing a Light Sorting Metamaterial Grating. *Mandel, I., +, JSEN Feb. 2013 618-625*

Artificial intelligence

Ant-Search Strategy Based on Likelihood Trail Intensity Modification for Multiple-Fault Diagnosis in Sensor Networks. *Arpaia, P., +, JSEN Jan. 2013 148-158*

Artificial limbs

Artificial Sense of Slip—A Review. *Francomano, M. T., +, JSEN July 2013 2489-2498*

Artificial satellites

Autonomous Detection of Angle Random Walk and Quantization Noise of Fiber Optic Gyro in Attitude Determination System of Satellite. *Yuan, R., +, JSEN Jan. 2013 211-216*

Assembling

Flex-to-Rigid (F2R): A Generic Platform for the Fabrication and Assembly of Flexible Sensors for Minimally Invasive Instruments. *Mimoun, B., +, JSEN Oct. 2013 3873-3882*

Atomic force microscopy

WO₃ Hydrogen Resistive Gas Sensor and Its Wide-Range Current-Mode Electronic Read-Out Circuit. *De Marcellis, A., +, JSEN July 2013 2792-2798*

A Capacitive Humidity Sensor Suitable for CMOS Integration. *Saeidi, N., +, JSEN Nov. 2013 4487-4495*

Evaluation of Oxidized-Low-Density Lipoproteins Using Kelvin Force Microscopy. *Takeda, S., +, JSEN Sept. 2013 3449-3453*

Integrated Long-Range Thermal Bimorph Actuators for Parallelizable Bio-AFM Applications. *Henriksson, J., +, JSEN Aug. 2013 2849-2856*

Long Period Fiber Grating Humidity Sensor With Gelatin/Cobalt Chloride Coating. *Nidhi, +, JSEN Nov. 2013 4139-4140*

Support Losses in Micromechanical Resonators Under Electrostatic and Piezoelectric Actuations. *Zhu, R., +, JSEN March 2013 1105-1109*

W-Shaped Cantilevers for Scanning Force Microscopy. *Le Rouzic, J., +, JSEN April 2013 1340-1346*

Attitude measurement

Autonomous Detection of Angle Random Walk and Quantization Noise of Fiber Optic Gyro in Attitude Determination System of Satellite. *Yuan, R., +, JSEN Jan. 2013 211-216*

Audio signal processing

Low-Complexity Hybrid Time-Frequency Audio Signal Pattern Detection. *Martalo, M., +, JSEN Feb. 2013 501-509*

Automatic optical inspection

Dynamics-Based Stereo Visual Inspection Using Multidimensional Modal Analysis. *Yang, H., +, JSEN Dec. 2013 4831-4843*

Vision-Based Displacement Sensor for Monitoring Dynamic Response Using Robust Object Search Algorithm. *Fukuda, Y., +, JSEN Dec. 2013 4725-4732*

Automatic test equipment

An Automatic Evaluation Procedure for 3-D Scanners in Robotics Applications. *Moller, B., +, JSEN Feb. 2013 870-878*

Automatic testing

Improved Flexible Sensing Cable System for Leak Detection and Localization. *Shui, A., +, JSEN Nov. 2013 4287-4295*

Autoregressive processes

Physiological Tremor Estimation With Autoregressive (AR) Model and Kalman Filter for Robotics Applications. *Tatinati, S., +, JSEN Dec. 2013 4977-4985*

Avalanche diodes

An Estimation of Single Photon Avalanche Diode (SPAD) Photon Detection Efficiency (PDE) Nonuniformity. *Savuskan, V., +, JSEN May 2013 1637-1640*

Selecting Single Photon Avalanche Diode (SPAD) Passive-Quenching Resistance: An Approach. *Savuskan, V., +, JSEN June 2013 2322-2328*

Avalanche photodiodes

A CMOS Sensor for Measurement of Cerebral Optical Coefficients Using Non-Invasive Frequency Domain Near Infrared Spectroscopy. *Sthalekar, C. C., +, JSEN Sept. 2013 3166-3174*

Comparison of Low-Cost and Noninvasive Optical Sensors for Cardiovascular Monitoring. *Pereira, T., +, JSEN May 2013 1434-1441*

Spatial Resolution Improvement of Distributed Raman Temperature Measurement System. *Wang, Z. L., +, JSEN Nov. 2013 4271-4278*

B

Backpropagation

Classification of Gases/Odors Using Dynamic Responses of Thick Film Gas Sensor Array. *Sunny, +, JSEN Dec. 2013 4924-4930*

Backward wave oscillators

Modern Resonator Spectroscopy at Submillimeter Wavelengths. *Parshin, V. V., +, JSEN Jan. 2013 18-23*

Band-pass filters

A Simple Low Power Electronic Readout for Rapid Bacteria Detection With Impedance Biosensor. *Samanta, N., +, JSEN Dec. 2013 4716-4724*

On-Chip MOSFET Temperature Sensor for Electrical Characterization of RF Circuits. *Reverter, F., +, JSEN Sept. 2013 3343-3344*

Bandwidth allocation

Wireless Sensor Networks and the Internet of Things: Optimal Estimation With Nonuniform Quantization and Bandwidth Allocation. *Zhou, Y., +, JSEN Oct. 2013 3568-3574*

Bayes methods

Particle Filtering for Acoustic Source Tracking in Impulsive Noise With Alpha-Stable Process. *Zhong, X., +, JSEN Feb. 2013 589-600*

Beams (structures)

Application of a Fiber Bragg Grating-Based Sensing System on Investigating Dynamic Behaviors of a Cantilever Beam Under Impact or Moving Mass Loadings. *Chuang, K.-C., +, JSEN Jan. 2013 389-399*

Commissioning and Evaluation of a Fiber-Optic Sensor System for Bridge Monitoring. *Scott, R. H., +, JSEN July 2013 2555-2562*

Dynamics-Based Stereo Visual Inspection Using Multidimensional Modal Analysis. *Yang, H., +, JSEN Dec. 2013 4831-4843*

Embedded Flexible Force Sensor for In-Situ Tire-Road Interaction Measurements. *Zhang, Y., +, JSEN May 2013 1756-1765*

Novel Type of Temperature Self-Compensating Acceleration Transducer Based on OFBG. *Wang, C., +, JSEN Aug. 2013 3012-3013*

Behavioral sciences computing

QoI-Aware Energy-Efficient Participatory Crowdsourcing. *Liu, C. H., +, JSEN Oct. 2013 3742-3753*

Belief networks

Classification of Animals and People Ultrasonic Signatures. *Damarla, T., +, JSEN MAY 2013 1464-1472*

Validation of Strain Gauges for Structural Health Monitoring With Bayesian Belief Networks. *Liu, Z., +, JSEN Jan. 2013 400-407*

Benchmark testing

An Automatic Evaluation Procedure for 3-D Scanners in Robotics Applications. *Moller, B., +, JSEN Feb. 2013 870-878*

Bending

Fiber Optic Bending Sensor for Water Level Monitoring: Development and Field Test: A Review. *Rosolem, J. B., +, JSEN Nov. 2013 4113-4120*

Highly Flexible Magneto-electronic Device Integrated With Embedded Ag Nanoparticle Electrode. *Oh, S., +, JSEN Oct. 2013 3957-3961*

Integration of f-MWCNT Sensor and Printed Circuits on Paper Substrate. *Xie, L., +, JSEN Oct. 2013 3948-3956*

Investigations on an Ultra-Thin Bendable Monolithic Si CMOS Image Sensor. *Dogiamis, G. C., +, JSEN Oct. 2013 3892-3900*

Piezoelectricity of Well-Aligned Electrospun Fiber Composites. *Liu, Z.-H., +, JSEN Oct. 2013 4098-4103*

Woven Temperature and Humidity Sensors on Flexible Plastic Substrates for E-Textile Applications. *Mattana, G., +, JSEN Oct. 2013 3901-3909*

Bimetals

Metal-Silver Based Electrodes as Sensitive Surfaces for Electrochemical Detection of Thio-Heterocycles. *Lai-Hao, W., +, JSEN Sept. 2013 3442-3448*

Bio-optics

A CMOS Sensor for Measurement of Cerebral Optical Coefficients Using Non-Invasive Frequency Domain Near Infrared Spectroscopy. *Sthalekar, C. C., +, JSEN Sept. 2013 3166-3174*

Tuning Characteristics of Guided Mode Resonances in 1- and 2-D Photonic Crystal Slab Biosensors. *Akhavan, H.*, +, *JSEN April 2013 1161-1166*

Biochemistry

A Rapid and Cost Effective Method for Measurement of Cyclosporine. *Mir-mohseni, A.*, +, *JSEN Nov. 2013 4542-4545*

Detection and Monitoring of Microparticles Under Skin by Optical Coherence Tomography as an Approach to Continuous Glucose Sensing Using Implanted Retroreflectors. *Wang, S.*, +, *JSEN Nov. 2013 4534-4541*

Detection of Transplant Rejection Chemokine Protein Biomarker in Physiological Salt Concentration. *Tulip, F. S.*, +, *JSEN Feb. 2013 438-439*

Micro-Ball Lensed Fiber-Based Glucose Sensor. *Harun, S. W.*, +, *JSEN Jan. 2013 348-350*

Microfluidic Chip With Integrated a-Si:H Photodiodes for Chemiluminescence-Based Bioassays. *Caputo, D.*, +, *JSEN July 2013 2595-2602*

The Novel Carbon Nanomaterials Electrochemical Sensor for Determination of Trace Aluminum in Human Body Fluids With 8-Hydroxyquinoline. *Tang, Y.-Z.*, +, *JSEN Sept. 2013 3270-3275*

Weak Adsorption-Induced Surface Stress for Streptavidin Binding to Biotin Tethered to Silicon Microcantilever Arrays. *Ness, S. J.*, +, *JSEN March 2013 959-968*

Biodiffusion

Multiple Surface-Based Biosensors for Enhanced Molecular Detection in Fluid Flow Systems. *Abolfath-Beygi, M.*, +, *JSEN April 2013 1265-1273*

Bioelectric phenomena

A Novel Glove Monitoring System Used to Quantify Neurological Symptoms During Deep-Brain Stimulation Surgery. *Dai, H.*, +, *JSEN Sept. 2013 3193-3202*

In Vivo Measurements With Robust Silicon-Based Multielectrode Arrays With Extreme Shaft Lengths. *Marton, G.*, +, *JSEN Sept. 2013 3263-3269*

MEMS-Based Intraoperative Monitoring System for Improved Safety in Lumbar Surgery. *Liu, X.*, +, *JSEN May 2013 1541-1548*

Bioelectric potentials

A 768-Channel CMOS Microelectrode Array With Angle Sensitive Pixels for Neuronal Recording. *Johnson, B.*, +, *JSEN Sept. 2013 3211-3218*

A CMOS Magnitude/Phase Measurement Chip for Impedance Spectroscopy. *Kassanos, P.*, +, *JSEN June 2013 2229-2236*

Modeling and Estimating Simulated DNA Nanopore Translocation Signals. *Qiu, W.*, +, *JSEN April 2013 1216-1222*

Biological effects of laser radiation

Emanation of Hydroxyl Radicals From Human Skin. *Che, D.-C.*, +, *JSEN April 2013 1223-1227*

Biological organs

Ocular Biometric Measurements to Diagnose Neurological Disorders Due to Wilson Disease. *Morello, R.*, +, *JSEN Sept. 2013 3203-3210*

Biological techniques

A Calibration Method for Eye-Gaze Estimation Systems Based on 3D Geometrical Optics. *Lee, H.*, +, *JSEN Sept. 2013 3219-3225*

A Portable Sensor With Disposable Electrodes for Water Bacterial Quality Assessment. *Grossi, M.*, +, *JSEN May 2013 1775-1782*

Application of Microfluidic Device for Lactic Biosensor. *Chou, J.-C.*, +, *JSEN April 2013 1363-1370*

Coded Corrugated Microfluidic Sidewalls for Code Division Multiplexing. *Javanmard, M.*, +, *JSEN May 2013 1399-1400*

Design and Modeling of a Wide Dynamic-Range Hardness Sensor for Biological Tissue Assessment. *Zhao, S.*, +, *JSEN Dec. 2013 4613-4620*

Microsystem for Real Time High Resolution Measurement of Cell Forces. *Swierczewski, R.*, +, *JSEN May 2013 1602-1609*

Paper-Based Flexible Taxel Device Using Electrical Contact Resistance Variation for Elasticity Measurement on Biological Objects. *Shiau, C.-C.*, +, *JSEN Oct. 2013 4038-4044*

Biological tissues

A CMOS Sensor for Measurement of Cerebral Optical Coefficients Using Non-Invasive Frequency Domain Near Infrared Spectroscopy. *Shahalekar, C. C.*, +, *JSEN Sept. 2013 3166-3174*

Design and Modeling of a Wide Dynamic-Range Hardness Sensor for Biological Tissue Assessment. *Zhao, S.*, +, *JSEN Dec. 2013 4613-4620*

In Vivo Measurements With Robust Silicon-Based Multielectrode Arrays With Extreme Shaft Lengths. *Marton, G.*, +, *JSEN Sept. 2013 3263-3269*

Measurement of Tension in a String Using an Array of Capacitive Force Sensors. *Singal, K.*, +, *JSEN Feb. 2013 792-800*

Ocular Biometric Measurements to Diagnose Neurological Disorders Due to Wilson Disease. *Morello, R.*, +, *JSEN Sept. 2013 3203-3210*

Biology computing

Distributed Feedback Laser Biosensor Noise Reduction. *Tan, Y.*, +, *JSEN May 2013 1972-1978*

Biomechanics

A Novel Glove Monitoring System Used to Quantify Neurological Symptoms During Deep-Brain Stimulation Surgery. *Dai, H.*, +, *JSEN Sept. 2013 3193-3202*

Assessing Spinal Loading Using the Kinect Depth Sensor: A Feasibility Study. *Ning, X.*, +, *JSEN April 2013 1139-1140*

Design and Modeling of a Wide Dynamic-Range Hardness Sensor for Biological Tissue Assessment. *Zhao, S.*, +, *JSEN Dec. 2013 4613-4620*

Force Sensor Design and Measurement for Endodontic Therapy. *Tsao, C.-C.*, +, *JSEN July 2013 2636-2642*

Microsystem for Real Time High Resolution Measurement of Cell Forces. *Swierczewski, R.*, +, *JSEN May 2013 1602-1609*

Paper-Based Flexible Taxel Device Using Electrical Contact Resistance Variation for Elasticity Measurement on Biological Objects. *Shiau, C.-C.*, +, *JSEN Oct. 2013 4038-4044*

Self Contained Adaptable Optical Wireless Communications System for Stroke Rate During Swimming. *Hagem, R. M.*, +, *JSEN Aug. 2013 3144-3151*

Subject-Specific Wrist Model Calibration and Application to Ergonomic Design of Exoskeletons. *Esmaeili, M.*, +, *JSEN Sept. 2013 3293-3301*

Biomedical communication

Design of Pervasive Rehabilitation Monitoring for Chronic Obstructive Pulmonary Disease. *Wu, M.-F.*, +, *JSEN Nov. 2013 4413-4422*

Hazardless Biomedical Sensing Data Transmission Using VLC. *Cheong, Y.-K.*, +, *JSEN Sept. 2013 3347-3348*

Biomedical electrodes

A 768-Channel CMOS Microelectrode Array With Angle Sensitive Pixels for Neuronal Recording. *Johnson, B.*, +, *JSEN Sept. 2013 3211-3218*

A CMOS MEMS Capacitive Flow Sensor for Respiratory Monitoring. *Liao, S.-H.*, +, *JSEN May 2013 1401-1402*

A Novel Glove Monitoring System Used to Quantify Neurological Symptoms During Deep-Brain Stimulation Surgery. *Dai, H.*, +, *JSEN Sept. 2013 3193-3202*

An Integrated Amplifier With Passive Neutralization of Myoelectric Interference From Neural Recording Tripoles. *Demosthenous, A.*, +, *JSEN Sept. 2013 3236-3248*

Fish Heart Rate Monitoring by Body-Contact Doppler Radar. *Hafner, N.*, +, *JSEN Jan. 2013 408-414*

Force Sensor Design and Measurement for Endodontic Therapy. *Tsao, C.-C.*, +, *JSEN July 2013 2636-2642*

In Vivo Measurements With Robust Silicon-Based Multielectrode Arrays With Extreme Shaft Lengths. *Marton, G.*, +, *JSEN Sept. 2013 3263-3269*

Neural Electrode Array Based on Aluminum: Fabrication and Characterization. *Peixoto, A. C. M.*, +, *JSEN Sept. 2013 3319-3324*

The Novel Carbon Nanomaterials Electrochemical Sensor for Determination of Trace Aluminum in Human Body Fluids With 8-Hydroxyquinoline. *Tang, Y.-Z.*, +, *JSEN Sept. 2013 3270-3275*

Biomedical electronics

A 768-Channel CMOS Microelectrode Array With Angle Sensitive Pixels for Neuronal Recording. *Johnson, B.*, +, *JSEN Sept. 2013 3211-3218*

A CMOS Magnitude/Phase Measurement Chip for Impedance Spectroscopy. *Kassanos, P.*, +, *JSEN June 2013 2229-2236*

A CMOS Sensor for Measurement of Cerebral Optical Coefficients Using Non-Invasive Frequency Domain Near Infrared Spectroscopy. *Shahalekar, C. C.*, +, *JSEN Sept. 2013 3166-3174*

An Integrated Amplifier With Passive Neutralization of Myoelectric Interference From Neural Recording Tripoles. *Demosthenous, A.*, +, *JSEN Sept. 2013 3236-3248*

Electromagnetic Biosensing of Respiratory Rate. *Padasdao, B.*, +, *JSEN Nov. 2013 4204-4211*

Flex-to-Rigid (F2R): A Generic Platform for the Fabrication and Assembly of Flexible Sensors for Minimally Invasive Instruments. *Mimoun, B.*, +, *JSEN Oct. 2013 3873-3882*

Wireless Surface Electromyography Probes With Four High-Speed Channels. *Imperatori, G.*, +, *JSEN Aug. 2013 2954-2961*

Biomedical engineering

Mechanomyography Sensor Development, Related Signal Processing, and Applications: A Systematic Review. *Islam, M. A.*, +, *JSEN July 2013 2499-2516*

Biomedical equipment

- A CMOS Sensor for Measurement of Cerebral Optical Coefficients Using Non-Invasive Frequency Domain Near Infrared Spectroscopy. *Shahalekar, C. C.*, +, *JSEN Sept. 2013 3166-3174*
- A Novel Flexible Thermoelectric Sensor for Intravascular Flow Assessment. *van der Horst, A.*, +, *JSEN Oct. 2013 3883-3891*
- Assessing Spinal Loading Using the Kinect Depth Sensor: A Feasibility Study. *Ning, X.*, +, *JSEN April 2013 1139-1140*
- Calibration and Uncertainty Evaluation Using Monte Carlo Method of a Simple 2D Sound Localization System. *Battista, L.*, +, *JSEN Sept. 2013 3312-3318*
- Design of a Fiber-Optic Sensing Mosquito Trap. *Biswas, A. K.*, +, *JSEN Nov. 2013 4423-4431*
- Detection and Monitoring of Microparticles Under Skin by Optical Coherence Tomography as an Approach to Continuous Glucose Sensing Using Implanted Retroreflectors. *Wang, S.*, +, *JSEN Nov. 2013 4534-4541*
- Development of a Non-Contact Sensing Method for Scratching Activity Measurement. *Kurihara, Y.*, +, *JSEN Sept. 2013 3325-3330*
- Droplet-Based Sensing: Optical Microresonator Sensors Embedded in Digital Electrowetting Microfluidics Systems. *Royal, M. W.*, +, *JSEN Dec. 2013 4733-4742*
- Fiber Bragg Grating Strain Sensor Incorporated to Monitor Patient Vital Signs During MRI. *Dziuda, L.*, +, *JSEN Dec. 2013 4986-4991*
- Hazardless Biomedical Sensing Data Transmission Using VLC. *Cheong, Y.-K.*, +, *JSEN Sept. 2013 3347-3348*
- Ion Sensor for the Quantification of Sodium in Sweat Samples. *Wujcik, E. K.*, +, *JSEN Sept. 2013 3430-3436*
- Quantum-Dot-Based Aptamer Beacons for K^+ Detection. *Wu, T.-C.*, +, *JSEN May 2013 1549-1553*
- Tidal Volume Measurement Through Non-Contact Doppler Radar With DC Reconstruction. *Massagram, W.*, +, *JSEN Sept. 2013 3397-3404*
- Wireless Medical-Embedded Systems: A Review of Signal-Processing Techniques for Classification. *Ghasemzadeh, H.*, +, *JSEN Feb. 2013 423-437*

Biomedical imaging

- Characterization of Low Dark-Current Lateral Amorphous-Selenium Metal-Semiconductor-Metal Photodetectors. *Abbaszadeh, S.*, +, *JSEN May 2013 1452-1458*

Biomedical materials

- A Closed-Loop Remote Powering Link for Wireless Cortical Implants. *Silay, K. M.*, +, *JSEN Sept. 2013 3226-3235*
- Neural Electrode Array Based on Aluminum: Fabrication and Characterization. *Peixoto, A. C. M.*, +, *JSEN Sept. 2013 3319-3324*
- The Novel Carbon Nanomaterials Electrochemical Sensor for Determination of Trace Aluminum in Human Body Fluids With 8-Hydroxyquinoline. *Tang, Y.-Z.*, +, *JSEN Sept. 2013 3270-3275*

Biomedical measurement

- A Calibration Method for Eye-Gaze Estimation Systems Based on 3D Geometrical Optics. *Lee, H.*, +, *JSEN Sept. 2013 3219-3225*
- A CMOS MEMS Capacitive Flow Sensor for Respiratory Monitoring. *Liao, S.-H.*, +, *JSEN May 2013 1401-1402*
- A CMOS Sensor for Measurement of Cerebral Optical Coefficients Using Non-Invasive Frequency Domain Near Infrared Spectroscopy. *Shahalekar, C. C.*, +, *JSEN Sept. 2013 3166-3174*
- An Attachable Clothing Sensor System for Measuring Knee Joint Angles. *Bergmann, J. H. M.*, +, *JSEN Oct. 2013 4090-4097*
- Designing Sensitive Wearable Capacitive Sensors for Activity Recognition. *Cheng, J.*, +, *JSEN Oct. 2013 3935-3947*
- Development of a Non-Contact Sensing Method for Scratching Activity Measurement. *Kurihara, Y.*, +, *JSEN Sept. 2013 3325-3330*
- Ecological Sucking Monitoring of Newborns. *Taffoni, F.*, +, *JSEN Nov. 2013 4561-4568*
- Force Sensor Design and Measurement for Endodontic Therapy. *Tsao, C.-C.*, +, *JSEN July 2013 2636-2642*
- Subject-Specific Wrist Model Calibration and Application to Ergonomic Design of Exoskeletons. *Esmaili, M.*, +, *JSEN Sept. 2013 3293-3301*
- The Novel Carbon Nanomaterials Electrochemical Sensor for Determination of Trace Aluminum in Human Body Fluids With 8-Hydroxyquinoline. *Tang, Y.-Z.*, +, *JSEN Sept. 2013 3270-3275*

Biomedical MRI

- An Innovative Strategy for Correctly Interpreting Simultaneous Acquisition of EEG Signals and fMRI Images. *Fabbiano, L.*, +, *JSEN Sept. 2013 3175-3181*

- Analysis of an MRI Compatible Force Sensor for Sensitivity and Precision. *Turkseven, M.*, +, *JSEN Feb. 2013 476-486*
- Design of a Four-Channel Surface Receiver Coil Array Without Preamplifiers for the Decoupling Between Elements: Validation for High-Resolution Rat Knee MR Imaging. *Perrier, A.-L.*, +, *JSEN June 2013 2450-2458*
- Fiber Bragg Grating Strain Sensor Incorporated to Monitor Patient Vital Signs During MRI. *Dziuda, L.*, +, *JSEN Dec. 2013 4986-4991*
- Iron Oxide-Gold Core-Shell Nanoparticles as Multimodal Imaging Contrast Agent. *Menichetti, L.*, +, *JSEN June 2013 2341-2347*

Biomedical optical imaging

- Detection and Monitoring of Microparticles Under Skin by Optical Coherence Tomography as an Approach to Continuous Glucose Sensing Using Implanted Retroreflectors. *Wang, S.*, +, *JSEN Nov. 2013 4534-4541*

Biomedical telemetry

- Efficient Signal Conditioning Techniques for Brain Activity in Remote Health Monitoring Network. *Karthik, G. V. S.*, +, *JSEN Sept. 2013 3276-3283*
- Wireless Energy and Data Transfer for In-Vivo Epileptic Focus Localization. *Yilmaz, G.*, +, *JSEN Nov. 2013 4172-4179*

Biomedical transducers

- Cancellation of Unwanted Doppler Radar Sensor Motion Using Empirical Mode Decomposition. *Mostafaezadeh, I.*, +, *JSEN May 2013 1897-1904*
- Flex-to-Rigid (F2R): A Generic Platform for the Fabrication and Assembly of Flexible Sensors for Minimally Invasive Instruments. *Mimoun, B.*, +, *JSEN Oct. 2013 3873-3882*
- HMM-Based Human Fall Detection and Prediction Method Using Tri-Axial Accelerometer. *Tong, L.*, +, *JSEN May 2013 1849-1856*
- Measurement of Tension in a String Using an Array of Capacitive Force Sensors. *Singal, K.*, +, *JSEN Feb. 2013 792-800*

Biomedical ultrasonics

- Effectiveness of Functionalized Nanosystems for Multimodal Molecular Sensing and Imaging in Medicine. *Casciaro, S.*, +, *JSEN June 2013 2305-2312*

BioMEMS

- A CMOS MEMS Capacitive Flow Sensor for Respiratory Monitoring. *Liao, S.-H.*, +, *JSEN May 2013 1401-1402*
- A Novel Glove Monitoring System Used to Quantify Neurological Symptoms During Deep-Brain Stimulation Surgery. *Dai, H.*, +, *JSEN Sept. 2013 3193-3202*
- Application of Microfluidic Device for Lactic Biosensor. *Chou, J.-C.*, +, *JSEN April 2013 1363-1370*
- Droplet-Based Sensing: Optical Microresonator Sensors Embedded in Digital Electrowetting Microfluidics Systems. *Royal, M. W.*, +, *JSEN Dec. 2013 4733-4742*
- Isotropically Etched Silicon Microarrays for Rapid Breast Cancer Cell Capture. *Nikkhah, M.*, +, *JSEN March 2013 1125-1132*
- Large-Area Low-Cost Flexible Plastic Nanohole Arrays for Integrated Bio-Chemical Sensing. *Chuo, Y.*, +, *JSEN Oct. 2013 3982-3990*
- MEMS-Based Intraoperative Monitoring System for Improved Safety in Lumbar Surgery. *Liu, X.*, +, *JSEN May 2013 1541-1548*
- Microsystem for Real Time High Resolution Measurement of Cell Forces. *Swierczewski, R.*, +, *JSEN May 2013 1602-1609*
- Weak Adsorption-Induced Surface Stress for Streptavidin Binding to Biotin Tethered to Silicon Microcantilever Arrays. *Ness, S. J.*, +, *JSEN March 2013 959-968*

Biomimetics

- Electrollocation Sensors in Conducting Water Bio-Inspired by Electric Fish. *Servagent, N.*, +, *JSEN May 2013 1865-1882*
- Mobile Application for Impedance-Based Biomimetic Sensor Readout. *Broeders, J.*, +, *JSEN July 2013 2659-2665*

Biosensors

- A Bio-Inspired APS for Selective Visual Attention. *Cottini, N.*, +, *JSEN Sept. 2013 3341-3342*
- A Linear Approach to Multi-Panel Sensing in Personalized Therapy for Cancer Treatment. *Baj-Rossi, C.*, +, *JSEN Dec. 2013 4860-4865*
- A Miniaturized pH Sensor With an Embedded Counter Electrode and a Readout Circuit. *Veeramani, M. S.*, +, *JSEN May 2013 1941-1948*
- A Simple Low Power Electronic Readout for Rapid Bacteria Detection With Impedance Biosensor. *Samanta, N.*, +, *JSEN Dec. 2013 4716-4724*
- Amperometric Acetylcholinesterase Biosensor Based on O-Carboxymethyl Chitosan-Gold Nanoparticle Nanocomposite by In-Situ Synthesis Method. *Sun, X.*, +, *JSEN Jan. 2013 172-179*
- Application of Microfluidic Device for Lactic Biosensor. *Chou, J.-C.*, +, *JSEN April 2013 1363-1370*

- Bioelectrochemical Conversion of Urea on Carbon Black Electrode and Application. *Laurinavicius, V.*, +, *JSEN June 2013 2208-2213*
- Comparison of Two CMOS Front-End Transimpedance Amplifiers for Optical Biosensors. *Trabelsi, A.*, +, *JSEN Feb. 2013 657-663*
- Constructing a Novel Asymmetric Dielectric Structure Toward the Realization of High-Performance Surface Plasmon Resonance Biosensors. *Chiu, N.-F.*, +, *JSEN Sept. 2013 3483-3489*
- Design of Highly Selective Metamaterials for Sensing Platforms. *Song, K.*, +, *JSEN Sept. 2013 3377-3385*
- Detection of SiO₂ Thin Layer by Using a Metallic Mesh Sensor. *Suzuki, T.*, +, *JSEN Dec. 2013 4972-4976*
- Detection of Hepatitis B DNA Sequences on Polyelectrolyte Based Non-Covalently Functionalized Flexible Plastic Substrates. *Goudar, V. S.*, +, *JSEN Dec. 2013 4817-4823*
- Detection of Transplant Rejection Chemokine Protein Biomarker in Physiological Salt Concentration. *Tulip, F. S.*, +, *JSEN Feb. 2013 438-439*
- Differentiation Between Analyte Adsorption and Homogenous Index Sensing in WGM Biodetection. *Charlebois, M.*, +, *JSEN Jan. 2013 229-233*
- Distributed Feedback Laser Biosensor Noise Reduction. *Tan, Y.*, +, *JSEN May 2013 1972-1978*
- Electromagnetic Biosensing of Respiratory Rate. *Padasdao, B.*, +, *JSEN Nov. 2013 4204-4211*
- Fabrication and Investigation of Arrayed Glucose Biosensor Based on Microfluidic Framework. *Chou, J.-C.*, +, *JSEN Nov. 2013 4180-4187*
- GaN-Based S₀-Wave Sensors on Silicon for Chemical and Biological Sensing in Liquid Environments. *Lu, X.*, +, *JSEN April 2013 1245-1251*
- Highly Resolved Sub-Terahertz Vibrational Spectroscopy of Biological Macromolecules and Cells. *Globus, T.*, +, *JSEN Jan. 2013 72-79*
- Highly Sensitive Lateral Field Excited Piezoelectric Film Acoustic Enzyme Biosensor. *Chen, D.*, +, *JSEN June 2013 2217-2222*
- Ion Sensor for the Quantification of Sodium in Sweat Samples. *Wujcik, E. K.*, +, *JSEN Sept. 2013 3430-3436*
- Large-Area Low-Cost Flexible Plastic Nanohole Arrays for Integrated Bio-Chemical Sensing. *Chuo, Y.*, +, *JSEN Oct. 2013 3982-3990*
- Mobile Application for Impedance-Based Biomimetic Sensor Readout. *Broeders, J.*, +, *JSEN July 2013 2659-2665*
- Multiple Surface-Based Biosensors for Enhanced Molecular Detection in Fluid Flow Systems. *Abolfath-Beygi, M.*, +, *JSEN April 2013 1265-1273*
- NADH-Fluorometric Biochemical Gas Sensor (Bio-Sniffer) for Evaluation of Indoor Air Quality. *Kudo, H.*, +, *JSEN Aug. 2013 2828-2833*
- Non-Intrusive Healthcare System in Global Machine-to-Machine Networks. *Jung, S.-J.*, +, *JSEN Dec. 2013 4824-4830*
- Optimization of the Local Evanescent Array-Coupled Optoelectronic Sensing Chip for Enhanced, Portable, Real-Time Sensing. *Erickson, T. A.*, +, *JSEN May 2013 1905-1913*
- Porous Tin-Oxide-Coated Regenerated Cellulose as Disposable and Low-Cost Alternative Transducer for Urea Detection. *Mahadeva, S. K.*, +, *JSEN June 2013 2223-2228*
- Preparation and Characteristics of Rat Anti-1,3,5-Trinitroperhydro-1,3,5-Triazine (RDX) Monoclonal Antibody and Detection of RDX Using Surface Plasmon Resonance Immunosensor. *Tanaka, Y.*, +, *JSEN Nov. 2013 4452-4458*
- Quantum-Dot-Based Aptamer Beacons for K⁺ Detection. *Wu, T.-C.*, +, *JSEN May 2013 1549-1553*
- Remote System for Monitoring Animal Models With Single-Metabolite Bio-Nano-Sensors. *Carrara, S.*, +, *JSEN March 2013 1018-1024*
- Tuning Characteristics of Guided Mode Resonances in 1- and 2-D Photonic Crystal Slab Biosensors. *Akhavan, H.*, +, *JSEN April 2013 1161-1166*
- Weak Adsorption-Induced Surface Stress for Streptavidin Binding to Biotin Tethered to Silicon Microcantilever Arrays. *Ness, S. J.*, +, *JSEN March 2013 959-968*
- Bipolar transistors**
- Photodetection With Gate-Controlled Lateral BJTs From Standard CMOS Technology. *Campos, F. S.*, +, *JSEN May 2013 1554-1563*
- Birefringence**
- Design Evaluation of a High Birefringence Single Mode Optical Fiber-Based Sensor for Lateral Pressure Monitoring Applications. *Karimi, M.*, +, *JSEN Nov. 2013 4459-4464*
- On the Design of Video-Bandwidth Electric Field Sensing Systems Using Dielectric LiNbO₃ Electro-Optic Sensors and Optical Delays as Signal Carriers. *Gutierrez-Martinez, C.*, +, *JSEN Nov. 2013 4196-4203*
- Blades**
- Integrated Impactor/Detector for a High-Throughput Explosive-Trace Detection Portal. *Fulghum, M. R.*, +, *JSEN April 2013 1252-1258*
- Blind source separation**
- Spatial and Time Patterns Extraction of Eddy Current Pulsed Thermography Using Blind Source Separation. *Bai, L.*, +, *JSEN June 2013 2094-2101*
- Block codes**
- Distributed Block Arithmetic Coding for Equiprobable Sources. *Zhou, J.*, +, *JSEN July 2013 2750-2756*
- Blood**
- A Novel Flexible Thermoelectric Sensor for Intravascular Flow Assessment. *van der Horst, A.*, +, *JSEN Oct. 2013 3883-3891*
- A Simple Low Power Electronic Readout for Rapid Bacteria Detection With Impedance Biosensor. *Samanta, N.*, +, *JSEN Dec. 2013 4716-4724*
- Detection and Monitoring of Microparticles Under Skin by Optical Coherence Tomography as an Approach to Continuous Glucose Sensing Using Implanted Retroreflectors. *Wang, S.*, +, *JSEN Nov. 2013 4534-4541*
- Electronic Nose System Based on Quartz Crystal Microbalance Sensor for Blood Glucose and HbA1c Levels From Exhaled Breath Odor. *Saraoglu, H. M.*, +, *JSEN Nov. 2013 4229-4235*
- Experimental Investigation of the Roles of Blood Volume and Density in Finger Photoplethysmography. *Keikhosravi, A.*, +, *JSEN May 2013 1397-1398*
- Iron Oxide-Gold Core-Shell Nanoparticles as Multimodal Imaging Contrast Agent. *Menichetti, L.*, +, *JSEN June 2013 2341-2347*
- Miniature Fabry-Perot Fiber Optic Sensor for Intravascular Blood Temperature Measurements. *Zou, X.*, +, *JSEN June 2013 2155-2160*
- Blood flow measurement**
- A Novel Flexible Thermoelectric Sensor for Intravascular Flow Assessment. *van der Horst, A.*, +, *JSEN Oct. 2013 3883-3891*
- Blood pressure measurement**
- A Novel Flexible Thermoelectric Sensor for Intravascular Flow Assessment. *van der Horst, A.*, +, *JSEN Oct. 2013 3883-3891*
- Blood vessels**
- A Novel Flexible Thermoelectric Sensor for Intravascular Flow Assessment. *van der Horst, A.*, +, *JSEN Oct. 2013 3883-3891*
- Development and Evaluation of a Wristwatch-Type Photoplethysmography Array Sensor Module. *Lee, Y. K.*, +, *JSEN May 2013 1459-1463*
- Body sensor networks**
- A Cross-Layer Judgment Scheme for Solving Retransmission Problem in IEEE 802.15.4-Based Wireless Body Sensor Networks. *Tseng, H.-W.*, +, *JSEN Aug. 2013 3124-3135*
- A Cyber Physical Test-Bed for Virtualization of RF Access Environment for Body Sensor Network. *He, J.*, +, *JSEN Oct. 2013 3826-3836*
- An Attachable Clothing Sensor System for Measuring Knee Joint Angles. *Bergmann, J. H. M.*, +, *JSEN Oct. 2013 4090-4097*
- An Experimental Study for Inter-User Interference Mitigation in Wireless Body Sensor Networks. *Cao, B.*, +, *JSEN Oct. 2013 3585-3595*
- Deploying Sensors for Gravity Measurement in a Body-Area Inertial Sensor Network. *Wu, C.-H.*, +, *JSEN May 2013 1522-1533*
- Designing Sensitive Wearable Capacitive Sensors for Activity Recognition. *Cheng, J.*, +, *JSEN Oct. 2013 3935-3947*
- HMM-Based Human Fall Detection and Prediction Method Using Tri-Axial Accelerometer. *Tong, L.*, +, *JSEN May 2013 1849-1856*
- Inertial Sensor Based Indoor Localization and Monitoring System for Emergency Responders. *Zhang, R.*, +, *JSEN Feb. 2013 838-848*
- Intra-Mobility Support Solutions for Healthcare Wireless Sensor Networks—Handover Issues. *Caldeira, J. M. L. P.*, +, *JSEN Nov. 2013 4339-4348*
- Ion Sensor for the Quantification of Sodium in Sweat Samples. *Wujcik, E. K.*, +, *JSEN Sept. 2013 3430-3436*
- Transmit-Only Ultra Wide Band Body Sensors and Collision Analysis. *Keong, H. C.*, +, *JSEN May 2013 1949-1958*
- Wireless Medical-Embedded Systems: A Review of Signal-Processing Techniques for Classification. *Ghasemzadeh, H.*, +, *JSEN Feb. 2013 423-437*
- Bolometers**
- Model-Based Low-Noise Readout Integrated Circuit Design for Uncooled Microbolometers. *Ly, J.*, +, *JSEN April 2013 1207-1215*
- THz Hot-Electron Micro-Bolometer Based on Low-Mobility 2-DEG in GaN Heterostructure. *Choi, J. K.*, +, *JSEN Jan. 2013 80-88*
- Bone**
- Assessing Spinal Loading Using the Kinect Depth Sensor: A Feasibility Study. *Ning, X.*, +, *JSEN April 2013 1139-1140*

Design of a Four-Channel Surface Receiver Coil Array Without Preamplifiers for the Decoupling Between Elements: Validation for High-Resolution Rat Knee MR Imaging. *Perrier, A.-L.*, +, *JSEN June 2013 2450-2458*

Boolean algebra

Optimizing Complex Cluster Formation in MANETs Using SAT/ILP Techniques. *Zahidi, S. Z. H.*, +, *JSEN June 2013 2400-2412*

Boron

Detection of Fuel Adulteration With High Sensitivity Using Turnaround Point Long Period Fiber Gratings in B/Ge Doped Fibers. *Kher, S.*, +, *JSEN Nov. 2013 4482-4486*

Botany

Terpene Detection Based on Localized Surface Plasma Resonance of Thiolate-Modified Au Nanoparticles. *Chen, B.*, +, *JSEN April 2013 1307-1314*

Bragg gratings

A Fiber Bragg Grating RMS Current Transducer Based on the Magnetostriction Effect Using a Terfenol-D Toroidal-Shaped Modulator. *Cremonezi, A. O.*, +, *JSEN Feb. 2013 683-690*

A Switchable Erbium Doped Fiber Ring Laser System for Temperature Sensors Multiplexing. *Rota-Rodrigo, S.*, +, *JSEN June 2013 2279-2283*

An Optically-Interrogated Rogowski Coil for Passive, Multiplexable Current Measurement. *Orr, P.*, +, *JSEN June 2013 2053-2054*

Analysis of Polyimide-Coated Optical Fiber Long-Period Grating-Based Relative Humidity Sensor. *Alwis, L.*, +, *JSEN Feb. 2013 767-771*

Application of a Fiber Bragg Grating-Based Sensing System on Investigating Dynamic Behaviors of a Cantilever Beam Under Impact or Moving Mass Loadings. *Chuang, K.-C.*, +, *JSEN Jan. 2013 389-399*

Compact Fiber Sensor With High Spatial Resolution for Simultaneous Strain and Temperature Measurement. *Cao, Z.*, +, *JSEN May 2013 1447-1451*

EDF-Based Edge-Filter Interrogation Scheme for FBG Sensors. *Tiwari, U.*, +, *JSEN April 2013 1315-1319*

Embedded Fiber Optic Sensors Within Additive Layer Manufactured Components. *Maier, R. R. J.*, +, *JSEN March 2013 969-979*

Fiber Bragg Grating Strain Sensor Incorporated to Monitor Patient Vital Signs During MRI. *Dziuda, L.*, +, *JSEN Dec. 2013 4986-4991*

Fiber Optic Hybrid Device for Simultaneous Measurement of Humidity and Temperature. *Mathew, J.*, +, *JSEN May 2013 1632-1636*

High Sensitivity Force and Pressure Measurements Using Etched Single-mode Polymer Fiber Bragg Gratings. *Rajan, G.*, +, *JSEN May 2013 1794-1800*

Induction Brazing of Type-I Fiber Bragg Gratings Into Kovar Ferrules Exploiting Curie Transition. *Perry, M.*, +, *JSEN Feb. 2013 816-823*

Novel Optimization Algorithm to Demodulate a PZT-FBG Sensor in AC High Voltage Measurements. *de Assumpcao Ribeiro, B.*, +, *JSEN April 2013 1259-1264*

Novel Type of Temperature Self-Compensating Acceleration Transducer Based on OFBG. *Wang, C.*, +, *JSEN Aug. 2013 3012-3013*

Reflective Refractometer Based on a Thin-Core Fiber Tailored Multimode Fiber Bragg Grating. *Rong, Q.*, +, *JSEN Nov. 2013 4356-4360*

Soft Fiber Optic Sensors for Precision Measurement of Shear Stress and Pressure. *Zhang, Z. F.*, +, *JSEN May 2013 1478-1482*

Thermal Regeneration in Etched-Core Fiber Bragg Grating. *Yang, H.*, +, *JSEN July 2013 2581-2585*

Wheel Flat Detection in High-Speed Railway Systems Using Fiber Bragg Gratings. *Filigrano, M. L.*, +, *JSEN Dec. 2013 4808-4816*

Brain

A CMOS Sensor for Measurement of Cerebral Optical Coefficients Using Non-Invasive Frequency Domain Near Infrared Spectroscopy. *Shalekar, C. C.*, +, *JSEN Sept. 2013 3166-3174*

A Novel Glove Monitoring System Used to Quantify Neurological Symptoms During Deep-Brain Stimulation Surgery. *Dai, H.*, +, *JSEN Sept. 2013 3193-3202*

An Innovative Strategy for Correctly Interpreting Simultaneous Acquisition of EEG Signals and fMRI Images. *Fabbiano, L.*, +, *JSEN Sept. 2013 3175-3181*

In Vivo Measurements With Robust Silicon-Based Multielectrode Arrays With Extreme Shaft Lengths. *Marton, G.*, +, *JSEN Sept. 2013 3263-3269*

Brazing

Induction Brazing of Type-I Fiber Bragg Gratings Into Kovar Ferrules Exploiting Curie Transition. *Perry, M.*, +, *JSEN Feb. 2013 816-823*

Bridges (structures)

Capacitive Sensor for Measuring the Filled of Post-Tensioned Ducts. Experimental Setup, Modeling and Signal Processing. *Bore, T.*, +, *JSEN Feb. 2013 457-465*

Commissioning and Evaluation of a Fiber-Optic Sensor System for Bridge Monitoring. *Scott, R. H.*, +, *JSEN July 2013 2555-2562*

Fiber Optic Strain Monitoring for Long-Term Evaluation of a Concrete Foot-bridge Under Extended Test Conditions. *Surre, F.*, +, *JSEN March 2013 1036-1043*

Historical-Log Recording System for Crack Opening and Growth Based on Mechanoluminescent Flexible Sensor. *Terasaki, N.*, +, *JSEN Oct. 2013 3999-4004*

Low-Power Circuits and Energy Harvesting for Structural Health Monitoring of Bridges. *Wardlaw, J. L.*, +, *JSEN Feb. 2013 709-722*

Vision-Based Displacement Sensor for Monitoring Dynamic Response Using Robust Object Search Algorithm. *Fukuda, Y.*, +, *JSEN Dec. 2013 4725-4732*

Brightness

Design of A CMOS Intelligent Light Sensing Chip for Automatic Brightness Tuning Applications. *Chiang, C.-T.*, +, *JSEN Dec. 2013 4955-4961*

Brillouin spectra

A Detailed Evaluation of the Correlation-Based Method Used for Estimation of the Brillouin Frequency Shift in BOTDA Sensors. *Farahani, M. A.*, +, *JSEN Dec. 2013 4589-4598*

Acceleration of Measurements in BOTDA Sensors Using Adaptive Linear Prediction. *Farahani, M. A.*, +, *JSEN Jan. 2013 263-272*

Effects of Polymer Coatings on Temperature Sensitivity of Brillouin Frequency Shift Within Double-Coated Fibers. *Gu, H.*, +, *JSEN Feb. 2013 864-869*

Broadcast communication

An Intelligent Hybrid MAC With Traffic-Differentiation-Based QoS for Wireless Sensor Networks. *Artifuzzaman, M.*, +, *JSEN June 2013 2391-2399*

Bubbles

Improvement of Odor Blender Using Electroosmotic Pumps and SAW Atomizer for Low-Volatile Scents. *Ariyakul, Y.*, +, *JSEN Dec. 2013 4918-4923*

Building management systems

Novel Miniature Airflow Energy Harvester for Wireless Sensing Applications in Buildings. *Zhu, D.*, +, *JSEN Feb. 2013 691-700*

Towards the Implementation of IoT for Environmental Condition Monitoring in Homes. *Kelly, S. D. T.*, +, *JSEN Oct. 2013 3846-3853*

Buildings (structures)

Low Power Wireless Sensor Network for Building Monitoring. *Torfs, T.*, +, *JSEN March 2013 909-915*

Bulk acoustic wave devices

A Lateral-Field-Excited Acoustic Wave Peroxide Based Explosive Sensor. *Duy, W. S. D.*, +, *JSEN Dec. 2013 4780-4785*

C

Cables (mechanical)

Capacitive Sensor for Measuring the Filled of Post-Tensioned Ducts. Experimental Setup, Modeling and Signal Processing. *Bore, T.*, +, *JSEN Feb. 2013 457-465*

Cadmium alloys

Metal-Silver Based Electrodes as Sensitive Surfaces for Electrochemical Detection of Thio-Heterocycles. *Lai-Hao, W.*, +, *JSEN Sept. 2013 3442-3448*

Calibration

A Calibration Method for Eye-Gaze Estimation Systems Based on 3D Geometrical Optics. *Lee, H.*, +, *JSEN Sept. 2013 3219-3225*

A Fully Integrated Hall Sensor Microsystem for Contactless Current Measurement. *Ajbl, A.*, +, *JSEN June 2013 2271-2278*

A Low-Power Directional Gamma-Ray Sensor System for Long-Term Radiation Monitoring. *Schrage, C.*, +, *JSEN July 2013 2610-2618*

A Miniaturized pH Sensor With an Embedded Counter Electrode and a Readout Circuit. *Veeramani, M. S.*, +, *JSEN May 2013 1941-1948*

A Rapid and Cost Effective Method for Measurement of Cyclosporine. *Mirmohseni, A.*, +, *JSEN Nov. 2013 4542-4545*

A Robust Inclinometer System With Accurate Calibration of Tilt and Azimuth Angles. *Yang, W.*, +, *JSEN June 2013 2313-2321*

A Wireless Passive Sensor for Temperature Compensated Remote pH Monitoring. *Bhadra, S.*, +, *JSEN June 2013 2428-2436*

Adaptive Neuro-Fuzzy Inference System-Based Remote Bulk Soil Moisture Estimation: Using CosmOz Cosmic Ray Sensor. *Dutta, R.*, +, *JSEN June 2013 2374-2381*

- All-Metal Optical Fiber Accelerometer With Low Transverse Sensitivity for Seismic Monitoring. *Jiang, D.*, +, *JSEN Nov. 2013 4556-4560*
- Autocalibration Method for Anisotropic Magnetoresistive Sensors Using Offset Coils. *Mohamadabadi, K.*, +, *JSEN Feb. 2013 772-776*
- Calibration and Uncertainty Evaluation Using Monte Carlo Method of a Simple 2D Sound Localization System. *Battista, L.*, +, *JSEN Sept. 2013 3312-3318*
- Characterizing the Sensitivity of UHF Partial Discharge Sensors Using FDTD Modeling. *Ishak, A. M.*, +, *JSEN Aug. 2013 3025-3031*
- Design of CMOS Monolithic Digitized Light Transducer With Calibration Technique for Ambient Light Sensor Applications. *Chiang, C.-T.*, +, *JSEN May 2013 1931-1940*
- Design of Pervasive Rehabilitation Monitoring for Chronic Obstructive Pulmonary Disease. *Wu, M.-F.*, +, *JSEN Nov. 2013 4413-4422*
- Distance Measurement Utilizing Image-Based Triangulation. *Liebe, C. C.*, +, *JSEN Jan. 2013 234-244*
- Dynamic Calibration of Electrochemical Sensor for Accelerated Analyte Quantification. *Yang, F.*, +, *JSEN April 2013 1192-1199*
- eCushion: A Textile Pressure Sensor Array Design and Calibration for Sitting Posture Analysis. *Xu, W.*, +, *JSEN Oct. 2013 3926-3934*
- Efficient Lens Distortion Correction for Decoupling in Calibration of Wide Angle Lens Cameras. *Ricolfe-Viala, C.*, +, *JSEN Feb. 2013 854-863*
- Experimental Study and Implementation of a Novel Digital Closed-Loop Control System for Coriolis Mass Flowmeter. *Hu, C.*, +, *JSEN Aug. 2013 3032-3038*
- Four Point Probe Micro-Optical Gyroscope With Self Calibration Control. *Mitatha, S.*, +, *JSEN July 2013 2705-2710*
- High Sensitivity, Miniature, Full 2-D Anemometer Based on MEMS Hot-Film Sensors. *Liu, H.-B.*, +, *JSEN May 2013 1914-1920*
- Humidity-to-Frequency Sensor in CMOS Technology With Wireless Readout. *Cirmirakis, D.*, +, *JSEN March 2013 900-908*
- Improved Flexible Sensing Cable System for Leak Detection and Localization. *Shui, A.*, +, *JSEN Nov. 2013 4287-4295*
- Improving Performance of GMR Sensors. *Bernieri, A.*, +, *JSEN Nov. 2013 4513-4521*
- Low-Power CMOS Smart Temperature Sensor With a Batch-Calibrated Inaccuracy of $\pm 0.25^\circ\text{C}$ ($\pm 3\sigma$) From -70°C to 130°C . *Aita, A. L.*, +, *JSEN May 2013 1840-1848*
- Measurement Theory and Experimental Study of Fault-Tolerant Fully Pre-Stressed Parallel Six-Component Force Sensor. *Yao, J.*, +, *JSEN Sept. 2013 3472-3482*
- Metrology Issues and Solutions in THz Time-Domain Spectroscopy: Noise, Errors, Calibration. *Naftaly, M.*, +, *JSEN Jan. 2013 8-17*
- New Compensation Method for Cross-Axis Effect for Three-Axis AMR Sensors. *Mohamadabadi, K.*, +, *JSEN April 2013 1355-1362*
- Novel Online Re-Calibration Method for Multi-Axis Force/Torque Sensor of ITER Welding/Machining Robot. *Rozebahani, H.*, +, *JSEN Nov. 2013 4432-4443*
- Performance Improvement of Slow-Wave Rogowski Coils for High Impulse Current Measurement. *Metwally, I. A.*, +, *JSEN Feb. 2013 538-547*
- Ratio-Based Temperature-Sensing Technique Hardened Against Nanometer Process Variations. *Iuero, P.*, +, *JSEN Feb. 2013 442-443*
- Room Temperature Ionic Liquid/Multiwalled Carbon Nanotube/Chitosan-Modified Glassy Carbon Electrode as a Sensor for Simultaneous Determination of Ascorbic Acid, Uric Acid, Acetaminophen, and Mefenamic Acid. *Kianipour, S.*, +, *JSEN July 2013 2690-2698*
- Sensor for Thermal Gas Analysis Based on Micromachined Silicon-Microwires. *Kliche, K.*, +, *JSEN July 2013 2626-2635*
- Stick-On Piezoelectromagnetic AC Current Monitoring of Circuit Breaker Panels. *Xu, Q. R.*, +, *JSEN March 2013 1055-1064*
- Strain Transfer Analysis of Surface-Bonded MEMS Strain Sensors. *Moradi, M.*, +, *JSEN Feb. 2013 637-643*
- Tidal Volume Measurement Through Non-Contact Doppler Radar With DC Reconstruction. *Massagram, W.*, +, *JSEN Sept. 2013 3397-3404*
- Wideband Visible Wavelength Range MEMS Fabry-Perot Tunable Filter With Highly Accurate Calibration System. *Hirokubo, N.*, +, *JSEN Aug. 2013 2930-2936*
- Cameras**
- A Bio-Inspired APS for Selective Visual Attention. *Cottini, N.*, +, *JSEN Sept. 2013 3341-3342*
- A Calibration Method for Eye-Gaze Estimation Systems Based on 3D Geometrical Optics. *Lee, H.*, +, *JSEN Sept. 2013 3219-3225*
- Constant-Hue-Based Color Filter Array Demosaicking Sensor for Digital Still Camera Implementation. *Fan, Y.-C.*, +, *JSEN July 2013 2586-2594*
- Detecting Mechanoluminescence From ZnS:Mn Powder Using a High Speed Camera. *Kobakhidze, L.*, +, *JSEN Aug. 2013 3053-3059*
- Efficient Lens Distortion Correction for Decoupling in Calibration of Wide Angle Lens Cameras. *Ricolfe-Viala, C.*, +, *JSEN Feb. 2013 854-863*
- Geometrical Analysis of Localization Error in Stereo Vision Systems. *Fooladgar, F.*, +, *JSEN Nov. 2013 4236-4246*
- Liquid Phase Deposition Based SnO_2 Gas Sensor Integrated With TaN Heater on a Micro-Hotplate. *Chiou, J.-C.*, +, *JSEN June 2013 2466-2473*
- Phase Algorithms for Reducing Axial Motion and Linearity Error in Indirect Time of Flight Cameras. *Drayton, B. M. M.*, +, *JSEN Sept. 2013 3386-3396*
- Speckle-Based Optical Sensor for Low Field Faraday Rotation Measurement. *Anand, A.*, +, *JSEN Feb. 2013 723-727*
- Cancer**
- A Linear Approach to Multi-Panel Sensing in Personalized Therapy for Cancer Treatment. *Baj-Rossi, C.*, +, *JSEN Dec. 2013 4860-4865*
- Effectiveness of Functionalized Nanosystems for Multimodal Molecular Sensing and Imaging in Medicine. *Casciaro, S.*, +, *JSEN June 2013 2305-2312*
- Isotropically Etched Silicon Microarrays for Rapid Breast Cancer Cell Capture. *Nikkhah, M.*, +, *JSEN March 2013 1125-1132*
- Cantilevers**
- Application of a Fiber Bragg Grating-Based Sensing System on Investigating Dynamic Behaviors of a Cantilever Beam Under Impact or Moving Mass Loadings. *Chuang, K.-C.*, +, *JSEN Jan. 2013 389-399*
- Cantilever Resonator With Integrated Actuation and Sensing Fabricated Using a Single Step Lithography. *Mohanasundaram, S. M.*, +, *JSEN Feb. 2013 440-441*
- Flexible Sputter-Deposited Carbon Strain Sensor. *Tata, U.*, +, *JSEN Feb. 2013 444-445*
- Nondestructive Evaluation of Diesel Spray Holes Using Piezoresistive Sensors. *Peiner, E.*, +, *JSEN Feb. 2013 701-708*
- Novel Miniature Airflow Energy Harvester for Wireless Sensing Applications in Buildings. *Zhu, D.*, +, *JSEN Feb. 2013 691-700*
- Novel Type of Temperature Self-Compensating Acceleration Transducer Based on OFBG. *Wang, C.*, +, *JSEN Aug. 2013 3012-3013*
- PDMS Microcantilever-Based Flow Sensor Integration for Lab-on-a-Chip. *Nezhad, A. S.*, +, *JSEN Feb. 2013 601-609*
- Piezoelectric Vibratory-Cantilever Force Sensors and Axial Sensitivity Analysis for Individual Triaxial Tactile Sensing. *Yamashita, K.*, +, *JSEN March 2013 1074-1080*
- W-Shaped Cantilevers for Scanning Force Microscopy. *Le Rouzic, J.*, +, *JSEN April 2013 1340-1346*
- Weak Adsorption-Induced Surface Stress for Streptavidin Binding to Biotin Tethered to Silicon Microcantilever Arrays. *Ness, S. J.*, +, *JSEN March 2013 959-968*
- Capacitance**
- A 768-Channel CMOS Microelectrode Array With Angle Sensitive Pixels for Neuronal Recording. *Johnson, B.*, +, *JSEN Sept. 2013 3211-3218*
- A CMOS MEMS Capacitive Flow Sensor for Respiratory Monitoring. *Liao, S.-H.*, +, *JSEN May 2013 1401-1402*
- A Wireless Passive Sensor for Temperature Compensated Remote pH Monitoring. *Bhadra, S.*, +, *JSEN June 2013 2428-2436*
- Humidity-to-Frequency Sensor in CMOS Technology With Wireless Readout. *Cirmirakis, D.*, +, *JSEN March 2013 900-908*
- Capacitance measurement**
- Capacitive Sensing of Antenna Loading With an R-C Voltage Divider in a Tunable Antenna. *Huttunen, A.*, +, *JSEN Feb. 2013 849-853*
- Designing Sensitive Wearable Capacitive Sensors for Activity Recognition. *Cheng, J.*, +, *JSEN Oct. 2013 3935-3947*
- Evaluation of Electrical Capacitance Tomography Sensors for Concentric Annulus. *Ye, J.*, +, *JSEN Feb. 2013 446-456*
- Measurement of Tension in a String Using an Array of Capacitive Force Sensors. *Singal, K.*, +, *JSEN Feb. 2013 792-800*
- Polymer-Based Chemicapacitor Sensor for 1-Octanol and Relative Humidity Detections at Different Temperatures and Frequencies. *Emadi, T. A.*, +, *JSEN Feb. 2013 519-527*
- Wideband Visible Wavelength Range MEMS Fabry-Perot Tunable Filter With Highly Accurate Calibration System. *Hirokubo, N.*, +, *JSEN Aug. 2013 2930-2936*
- Capacitive sensors**
- A Capacitive Humidity Sensor Suitable for CMOS Integration. *Saeidi, N.*, +, *JSEN Nov. 2013 4487-4495*
- A CMOS MEMS Capacitive Flow Sensor for Respiratory Monitoring. *Liao, S.-H.*, +, *JSEN May 2013 1401-1402*

- A Flexible and Robust Large Scale Capacitive Tactile System for Robots. *Maiolino, P.*, +, *JSEN Oct. 2013 3910-3917*
- Capacitive Measurement of Facial Activity Intensity. *Rantanen, V.*, +, *JSEN Nov. 2013 4329-4338*
- Capacitive Sensing of Antenna Loading With an R–C Voltage Divider in a Tunable Antenna. *Huttunen, A.*, +, *JSEN Feb. 2013 849-853*
- Capacitive Sensor for Measuring the Filled of Post-Tensioned Ducts. Experimental Setup, Modeling and Signal Processing. *Bore, T.*, +, *JSEN Feb. 2013 457-465*
- Design of Highly Selective Metamaterials for Sensing Platforms. *Song, K.*, +, *JSEN Sept. 2013 3377-3385*
- Designing Sensitive Wearable Capacitive Sensors for Activity Recognition. *Cheng, J.*, +, *JSEN Oct. 2013 3935-3947*
- High-Performance Closed-Loop Interface Circuit for High-Q Capacitive Microaccelerometers. *Ye, Z.*, +, *JSEN May 2013 1425-1433*
- High-Performance Interface Electronic System for a 13×13 Flexible Biomechanical Ground Reaction Sensor Array Achieving a Gait Ground Velocity Resolution of $100 \mu\text{m}/\text{sec}$. *Guo, Q.*, +, *JSEN Nov. 2013 4496-4505*
- Measurement of Tension in a String Using an Array of Capacitive Force Sensors. *Singal, K.*, +, *JSEN Feb. 2013 792-800*
- Multielectrode Differential Capacitive Sensors—Model Simulation With Design Application. *Huang, B.*, +, *JSEN April 2013 1371-1379*
- Novel Optimization Algorithm to Demodulate a PZT-FBG Sensor in AC High Voltage Measurements. *de Assumpcao Ribeiro, B.*, +, *JSEN April 2013 1259-1264*
- Polymer-Based Chemicapacitor Sensor for 1-Octanol and Relative Humidity Detections at Different Temperatures and Frequencies. *Emadi, T. A.*, +, *JSEN Feb. 2013 519-527*
- Selective Capacitive Sensor for Ammonia Hydroxide at Room Temperature. *Das, A.*, +, *JSEN July 2013 2757-2762*
- Two-Mass MEMS Velocity Sensor: Internal Feedback Loop Design. *Alshehri, A.*, +, *JSEN March 2013 1003-1011*
- Wideband Visible Wavelength Range MEMS Fabry–Perot Tunable Filter With Highly Accurate Calibration System. *Hirokubo, N.*, +, *JSEN Aug. 2013 2930-2936*
- Capacitors**
- Aerosol-Printed Strain Sensor Using PEDOT:PSS. *Thompson, B.*, +, *JSEN Nov. 2013 4256-4263*
- An Integrated Amplifier With Passive Neutralization of Myoelectric Interference From Neural Recording Tripoles. *Demosthenous, A.*, +, *JSEN Sept. 2013 3236-3248*
- Capacitive Sensing of Antenna Loading With an R–C Voltage Divider in a Tunable Antenna. *Huttunen, A.*, +, *JSEN Feb. 2013 849-853*
- Piezoelectric Vibratory–Cantilever Force Sensors and Axial Sensitivity Analysis for Individual Triaxial Tactile Sensing. *Yamashita, K.*, +, *JSEN March 2013 1074-1080*
- Polymer-Based Chemicapacitor Sensor for 1-Octanol and Relative Humidity Detections at Different Temperatures and Frequencies. *Emadi, T. A.*, +, *JSEN Feb. 2013 519-527*
- Carbon**
- Displacement Sensor Based on Diamond-Shaped Tapered Split Ring Resonator. *Horestani, A. K.*, +, *JSEN April 2013 1153-1160*
- Flexible Sputter-Deposited Carbon Strain Sensor. *Tata, U.*, +, *JSEN Feb. 2013 444-445*
- New Potentiometric Carbon Paste Electrode for Determination of Reactive Yellow 160 Dye Concentration in Textile Wastewater. *Ghalwa, N. A.*, +, *JSEN Dec. 2013 4757-4763*
- Carbon capture and storage**
- Online Monitoring of Geological CO₂ Storage and Leakage Based on Wireless Sensor Networks. *Yang, H.*, +, *JSEN Feb. 2013 556-562*
- Quantum Cascade Laser-Based Sensing for Carbon Sequestration Leakage Monitoring. *Escarra, M. D.*, +, *JSEN June 2013 2348-2356*
- Carbon compounds**
- Carbon Nanotubes With Adsorbed Au for Sensing Gas. *Lin, Z.-D.*, +, *JSEN June 2013 2423-2427*
- Dynamic Calibration of Electrochemical Sensor for Accelerated Analyte Quantification. *Yang, F.*, +, *JSEN April 2013 1192-1199*
- Gases/Odors Identification With Artificial Immune Recognition System Using Thick Film Gas Sensor Array Responses. *Sunny*, +, *JSEN Aug. 2013 3039-3045*
- High Polarization and Low-Repulsion HfO₂ Thin Film for Alkali Metal Ion Detections by Plasma System With a Complementary Filter. *Huang, C.-H.*, +, *JSEN June 2013 2459-2465*
- Quantum Cascade Laser-Based Sensing for Carbon Sequestration Leakage Monitoring. *Escarra, M. D.*, +, *JSEN June 2013 2348-2356*
- Sensor for Thermal Gas Analysis Based on Micromachined Silicon-Microwires. *Kliche, K.*, +, *JSEN July 2013 2626-2635*
- Carbon fiber reinforced composites**
- Polypropylene-Carbon Nanofiber Composites as Strain-Gauge Sensor. *Rocha, J. G.*, +, *JSEN July 2013 2603-2609*
- Carbon nanotube field effect transistors**
- Deoxyribonucleic Acid Functionalized Carbon Nanotube Network as Humidity Sensors. *Paul, A.*, +, *JSEN May 2013 1806-1816*
- Carbon nanotubes**
- A Flexible Multifunctional Sensor Based on Carbon Nanotube/Polyurethane Composite. *Slobodian, P.*, +, *JSEN Oct. 2013 4045-4048*
- A Robust Low Power Carbon Nanotube Sensor Interface Circuit in 180 nm CMOS Technology. *Ren, S.*, +, *JSEN Dec. 2013 4786-4795*
- A Wide Range Conductometric pH Sensor Made With Titanium Dioxide/Multiwall Carbon Nanotube/Cellulose Hybrid Nanocomposite. *Chen, Y.*, +, *JSEN Nov. 2013 4157-4162*
- An Electromechanical System Based on Carbon Nanotube Sensors to Detect Apnea. *Liu, H.-C.*, +, *JSEN July 2013 2737-2741*
- Carbon Nanotubes With Adsorbed Au for Sensing Gas. *Lin, Z.-D.*, +, *JSEN June 2013 2423-2427*
- Chemically Modified Multiwalled Carbon Nanotubes as Efficient Material for Construction of New Al(III) Ion Selective Carbon Paste Electrode. *Ghaedi, M.*, +, *JSEN Jan. 2013 321-327*
- Corrections to "An electromechanical system based on carbon nanotube sensors to detect apnea" [Jul 13 2737-2741]. *Liu, H.-C.*, +, *JSEN Dec. 2013 4992*
- Deoxyribonucleic Acid Functionalized Carbon Nanotube Network as Humidity Sensors. *Paul, A.*, +, *JSEN May 2013 1806-1816*
- Flexible Carbon Nanotube Based Gas Sensors Fabricated by Large-Scale Spray Deposition. *Abdellah, A.*, +, *JSEN Oct. 2013 4014-4021*
- Infrared Camera Using a Single Nano-Photodetector. *Chen, H.*, +, *JSEN March 2013 949-958*
- Integration of f-MWCNT Sensor and Printed Circuits on Paper Substrate. *Xie, L.*, +, *JSEN Oct. 2013 3948-3956*
- Ion Sensor for the Quantification of Sodium in Sweat Samples. *Wujcik, E. K.*, +, *JSEN Sept. 2013 3430-3436*
- Multi-Walled Carbon Nanotubes/Graphene Oxide Composites for Humidity Sensing. *Li, X.*, +, *JSEN Dec. 2013 4749-4756*
- Room Temperature Ionic Liquid/Multiwalled Carbon Nanotube/Chitosan-Modified Glassy Carbon Electrode as a Sensor for Simultaneous Determination of Ascorbic Acid, Uric Acid, Acetaminophen, and Mefenamic Acid. *Kianipour, S.*, +, *JSEN July 2013 2690-2698*
- Sensor Array for Water Analysis Based on Interdigitated Electrodes Modified With Fiber Films of Poly(Lactic Acid)/Multiwalled Carbon Nanotubes. *Oliveira, J. E.*, +, *JSEN Feb. 2013 759-766*
- Spatial Sensing Using Electrical Impedance Tomography. *Loyola, B. R.*, +, *JSEN June 2013 2357-2367*
- SWNT Based Nanosensors for Wireless Detection of Explosives and Chemical Warfare Agents. *Liu, Y.*, +, *JSEN Jan. 2013 202-210*
- The Novel Carbon Nanomaterials Electrochemical Sensor for Determination of Trace Aluminum in Human Body Fluids With 8-Hydroxyquinoline. *Tang, Y.-Z.*, +, *JSEN Sept. 2013 3270-3275*
- Cardiology**
- Cancellation of Unwanted Doppler Radar Sensor Motion Using Empirical Mode Decomposition. *Mostafaezhad, I.*, +, *JSEN May 2013 1897-1904*
- Designing Sensitive Wearable Capacitive Sensors for Activity Recognition. *Cheng, J.*, +, *JSEN Oct. 2013 3935-3947*
- Fiber Bragg Grating Strain Sensor Incorporated to Monitor Patient Vital Signs During MRI. *Dziuda, L.*, +, *JSEN Dec. 2013 4986-4991*
- Cardiovascular system**
- Comparison of Low-Cost and Noninvasive Optical Sensors for Cardiovascular Monitoring. *Pereira, T.*, +, *JSEN May 2013 1434-1441*
- Carrier mobility**
- Characteristics of Flexible Thin-Film Transistors With ZnO Channels. *Ji, L.-W.*, +, *JSEN Dec. 2013 4940-4943*
- Carrier sense multiple access**
- An Experimental Study for Inter-User Interference Mitigation in Wireless Body Sensor Networks. *Cao, B.*, +, *JSEN Oct. 2013 3585-3595*
- Cascade networks**
- An Integrated High-Precision Probe System in $0.18\text{-}\mu\text{m}$ CMOS for Near-Field Magnetic Measurements on Cryptographic LSIs. *Mai-Khanh, N. N.*, +, *JSEN July 2013 2675-2682*

Casting

Multi-Walled Carbon Nanotubes/Graphene Oxide Composites for Humidity Sensing. *Li, X.*, +, *JSEN Dec. 2013 4749-4756*

Catalysis

Metal-Silver Based Electrodes as Sensitive Surfaces for Electrochemical Detection of Thio-Heterocycles. *Lai-Hao, W.*, +, *JSEN Sept. 2013 3442-3448*

Catalysts

High Dynamic Range Methanol Sensor Based on Aligned ZnO Nanorods. *Banerjee, N.*, +, *JSEN May 2013 1669-1676*

Catheters

Flex-to-Rigid (F2R): A Generic Platform for the Fabrication and Assembly of Flexible Sensors for Minimally Invasive Instruments. *Mimoun, B.*, +, *JSEN Oct. 2013 3873-3882*

Cavity resonators

A Microwave Resonant Sensor for Concentration Measurements of Liquid Solutions. *Gennarelli, G.*, +, *JSEN May 2013 1857-1864*
Miniature Fabry–Perot Fiber Optic Sensor for Intravascular Blood Temperature Measurements. *Zou, X.*, +, *JSEN June 2013 2155-2160*

CCD image sensors

Distance Measurement Utilizing Image-Based Triangulation. *Liebe, C. C.*, +, *JSEN Jan. 2013 234-244*
Geometrical Analysis of Localization Error in Stereo Vision Systems. *Fooladgar, F.*, +, *JSEN Nov. 2013 4236-4246*

Cellular biophysics

Constructing a Novel Asymmetric Dielectric Structure Toward the Realization of High-Performance Surface Plasmon Resonance Biosensors. *Chiu, N.-F.*, +, *JSEN Sept. 2013 3483-3489*
Highly Resolved Sub-Terahertz Vibrational Spectroscopy of Biological Macromolecules and Cells. *Globus, T.*, +, *JSEN Jan. 2013 72-79*
Isotopically Etched Silicon Microarrays for Rapid Breast Cancer Cell Capture. *Nikkhah, M.*, +, *JSEN March 2013 1125-1132*
Microsystem for Real Time High Resolution Measurement of Cell Forces. *Swierczewski, R.*, +, *JSEN May 2013 1602-1609*

Cements (building materials)

Capacitive Sensor for Measuring the Filled of Post-Tensioned Ducts. Experimental Setup, Modeling and Signal Processing. *Bore, T.*, +, *JSEN Feb. 2013 457-465*
Use of Tapered Optical Fiber Sensors in Study of the Hydration Process of Cement Paste. *Luo, D.*, +, *JSEN Sept. 2013 3415-3420*

Ceramic packaging

A Micropreconcentrator Design Using Low Temperature Cofired Ceramics Technology for Acetone Detection Applications. *Rydzosz, A.*, +, *JSEN May 2013 1889-1896*

Channel allocation

Scalable Channel Allocation and Access Scheduling for Wireless Internet-of-Things. *Wu, D.*, +, *JSEN Oct. 2013 3596-3604*

Channel flow

Three-Dimensional Flexible Thermal Sensor for Intravascular Flow Monitoring. *Tang, R.*, +, *JSEN Oct. 2013 3991-3998*

Charge measurement

MEMS Electrometer With Femtoampere Resolution for Aerosol Particulate Measurements. *Jaramillo, G.*, +, *JSEN Aug. 2013 2993-3000*

Charge-coupled devices

A Highly Sensitive and Low-Cost Sagnac Loop Based Pressure Sensor. *Cho, L.-H.*, +, *JSEN Aug. 2013 3073-3078*

Chemical analysis

Sensor for Thermal Gas Analysis Based on Micromachined Silicon-Microwires. *Kliche, K.*, +, *JSEN July 2013 2626-2635*
Versatile Sub-THz Spectrometer for Trace Gas Analysis. *Mouret, G.*, +, *JSEN Jan. 2013 133-138*

Chemical reactions

Microfluidic Chip With Integrated a-Si:H Photodiodes for Chemiluminescence-Based Bioassays. *Caputo, D.*, +, *JSEN July 2013 2595-2602*

Chemical sensors

A Closed-Loop Hydrogel-Based Chemical Sensor. *Schulz, V.*, +, *JSEN March 2013 994-1002*
A Flexible Multifunctional Sensor Based on Carbon Nanotube/Polyurethane Composite. *Slobodian, P.*, +, *JSEN Oct. 2013 4045-4048*
A Lateral-Field-Excited Acoustic Wave Peroxide Based Explosive Sensor. *Duy, W. S. D.*, +, *JSEN Dec. 2013 4780-4785*
A Microwave Resonant Sensor for Concentration Measurements of Liquid Solutions. *Gennarelli, G.*, +, *JSEN May 2013 1857-1864*

A Miniaturized pH Sensor With an Embedded Counter Electrode and a Readout Circuit. *Veeramani, M. S.*, +, *JSEN May 2013 1941-1948*

A Wide Range Conductometric pH Sensor Made With Titanium Dioxide/Multiwall Carbon Nanotube/Cellulose Hybrid Nanocomposite. *Chen, Y.*, +, *JSEN Nov. 2013 4157-4162*

A Wireless Hybrid Chemical Sensor for Detection of Environmental Volatile Organic Compounds. *Chen, C.*, +, *JSEN May 2013 1748-1755*

Analysis of the Characteristics of PVA-Coated LPG-Based Sensors to Coating Thickness and Changes in the External Refractive Index. *Abwis, L.*, +, *JSEN March 2013 1117-1124*

Assembly of Gold Nanorods for Highly Sensitive Detection of Mercury Ions. *Placido, T.*, +, *JSEN Aug. 2013 2834-2841*

Detection and Monitoring of Microparticles Under Skin by Optical Coherence Tomography as an Approach to Continuous Glucose Sensing Using Implanted Retroreflectors. *Wang, S.*, +, *JSEN Nov. 2013 4534-4541*

Effects of the Set Phase Position on the Response of a SAW Resonator Oscillator Based Chemical Sensor. *Kshetrimayum, R.*, +, *JSEN May 2013 1662-1668*

Fabrication and Investigation of Arrayed Glucose Biosensor Based on Microfluidic Framework. *Chou, J.-C.*, +, *JSEN Nov. 2013 4180-4187*

GaN-Based S₀-Wave Sensors on Silicon for Chemical and Biological Sensing in Liquid Environments. *Lu, X.*, +, *JSEN April 2013 1245-1251*

High Polarization and Low-Repulsion HfO₂ Thin Film for Alkali Metal Ion Detections by Plasma System With a Complementary Filter. *Huang, C.-H.*, +, *JSEN June 2013 2459-2465*

Humidity Sensor With a PVA-Coated Photonic Crystal Fiber Interferometer. *Li, T.*, +, *JSEN June 2013 2214-2216*

Hydrogen-Sensing Properties of a Pd/AlGaIn/GaN-Based Field-Effect Transistor Under a Nitrogen Ambience. *Hsu, C.-S.*, +, *JSEN May 2013 1787-1793*

Large-Area Low-Cost Flexible Plastic Nanohole Arrays for Integrated Bio-Chemical Sensing. *Chuo, Y.*, +, *JSEN Oct. 2013 3982-3990*

Micro-Ball Lensed Fiber-Based Glucose Sensor. *Harun, S. W.*, +, *JSEN Jan. 2013 348-350*

Microfluidic Chip With Integrated a-Si:H Photodiodes for Chemiluminescence-Based Bioassays. *Caputo, D.*, +, *JSEN July 2013 2595-2602*

Microfluidic Smectite-Polymer Nanocomposite Strip Sensor for Aflatoxin Detection. *Hu, H.*, +, *JSEN May 2013 1835-1839*

Packageless AlN/ZnO/Si Structure for SAW Devices Applications. *Legrani, O.*, +, *JSEN Feb. 2013 487-491*

PDMS Microcantilever-Based Flow Sensor Integration for Lab-on-a-Chip. *Nezhad, A. S.*, +, *JSEN Feb. 2013 601-609*

Preparation and Characteristics of Rat Anti-1,3,5-Trinitroperhydro-1,3,5-Triazine (RDX) Monoclonal Antibody and Detection of RDX Using Surface Plasmon Resonance Immunosensor. *Tanaka, Y.*, +, *JSEN Nov. 2013 4452-4458*

Room Temperature Methane Sensor Based on Graphene Nanosheets/Polyaniline Nanocomposite Thin Film. *Wu, Z.*, +, *JSEN Feb. 2013 777-782*

Sensor Application of Poly (Ethylene Glycol) Diacrylate Hydrogels Chemically-Anchored on Polymer Surface. *Gao, Z.*, +, *JSEN May 2013 1690-1698*

Sol-Gel Iridium Oxide-Based pH Sensor Array on Flexible Polyimide Substrate. *Nguyen, C. M.*, +, *JSEN Oct. 2013 3857-3864*

Studies on Influence of (2-Hydroxypropyl)- β -Cyclodextrin on Properties of a New Indomethacin Electrode. *Lenik, J.*, +, *JSEN Dec. 2013 4638-4647*
SWNT Based Nanosensors for Wireless Detection of Explosives and Chemical Warfare Agents. *Liu, Y.*, +, *JSEN Jan. 2013 202-210*

Chemical vapor deposition

Carbon Nanotubes With Adsorbed Au for Sensing Gas. *Lin, Z.-D.*, +, *JSEN June 2013 2423-2427*

Chemical variables measurement

NH₃ Sensing by p-ZnO Thin Films. *Balakrishnan, L. N.*, +, *JSEN June 2013 2055-2060*

A Microwave Resonant Sensor for Concentration Measurements of Liquid Solutions. *Gennarelli, G.*, +, *JSEN May 2013 1857-1864*

Context-Adaptive Multimodal Wireless Sensor Network for Energy-Efficient Gas Monitoring. *Jelicic, V.*, +, *JSEN Jan. 2013 328-338*

Estimating Colloidal Concentration Using Acoustic Backscatter. *Fuller, C. B.*, +, *JSEN Nov. 2013 4546-4555*

Multiple Surface-Based Biosensors for Enhanced Molecular Detection in Fluid Flow Systems. *Abolfath-Beygi, M.*, +, *JSEN April 2013 1265-1273*

Quantum Cascade Laser-Based Sensing for Carbon Sequestration Leakage Monitoring. *Escarra, M. D.*, +, *JSEN June 2013 2348-2356*

- Sensor for Thermal Gas Analysis Based on Micromachined Silicon-Microwires. *Kliche, K.*, +, *JSEN July 2013 2626-2635*
- Simultaneous Single Detector Measurement of Multiple Fluorescent Sources. *Dixit, R.*, +, *JSEN May 2013 1965-1971*
- Chemiluminescence**
- Chemiluminescent Visualization for Evaluation of Gaseous Ethanol Distribution During 'La France' Pear Maturation. *Arakawa, T.*, +, *JSEN Aug. 2013 2842-2848*
- Microfluidic Chip With Integrated a-Si:H Photodiodes for Chemiluminescence-Based Bioassays. *Caputo, D.*, +, *JSEN July 2013 2595-2602*
- Chemoception**
- A 768-Channel CMOS Microelectrode Array With Angle Sensitive Pixels for Neuronal Recording. *Johnson, B.*, +, *JSEN Sept. 2013 3211-3218*
- Electronic Tongues—A Review. *Tahara, Y.*, +, *JSEN Aug. 2013 3001-3011*
- Chirp modulation**
- W-Band Chirp Radar Mock-Up Using a Glow Discharge Detector. *Rozban, D.*, +, *JSEN Jan. 2013 139-145*
- Chromatography**
- Highly Sensitive Lateral Field Excited Piezoelectric Film Acoustic Enzyme Biosensor. *Chen, D.*, +, *JSEN June 2013 2217-2222*
- Interchannel Mixing Minimization in Semi-Packed Micro Gas Chromatography Columns. *Alfeeli, B.*, +, *JSEN Nov. 2013 4312-4319*
- Microfluidic Smectite-Polymer Nanocomposite Strip Sensor for Aflatoxin Detection. *Hu, H.*, +, *JSEN May 2013 1835-1839*
- Photoactivated TiO₂ Gas Chromatograph Detector for Diverse Chemical Compounds Sensing at Room Temperature. *Tian, W.-C.*, +, *JSEN May 2013 1725-1729*
- Chromium**
- High-Efficient Chip to Wafer Self-Alignment and Bonding Applicable to MEMS-IC Flexible Integration. *Lu, J.*, +, *JSEN Feb. 2013 651-656*
- Circuit breakers**
- Stick-On Piezoelectromagnetic AC Current Monitoring of Circuit Breaker Panels. *Xu, Q. R.*, +, *JSEN March 2013 1055-1064*
- Circuit feedback**
- A Closed-Loop Hydrogel-Based Chemical Sensor. *Schulz, V.*, +, *JSEN March 2013 994-1002*
- Circuit optimization**
- A Capacitive Humidity Sensor Suitable for CMOS Integration. *Saeidi, N.*, +, *JSEN Nov. 2013 4487-4495*
- Design of Highly Selective Metamaterials for Sensing Platforms. *Song, K.*, +, *JSEN Sept. 2013 3377-3385*
- Optimization of Voltage Doublers for Energy Harvesting Applications. *Roscoe, N. M.*, +, *JSEN Dec. 2013 4904-4911*
- Circuit reliability**
- Integration of f-MWCNT Sensor and Printed Circuits on Paper Substrate. *Xie, L.*, +, *JSEN Oct. 2013 3948-3956*
- Circuit resonance**
- A CMOS-MEMS Resonator Integrated System for Oscillator Application. *Pachkawade, V.*, +, *JSEN Aug. 2013 2882-2889*
- Circuit simulation**
- An Integrated High-Precision Probe System in 0.18- μm CMOS for Near-Field Magnetic Measurements on Cryptographic LSIs. *Mai-Khanh, N. N.*, +, *JSEN July 2013 2675-2682*
- Circular dichroism**
- Effects of Al(III) and Nano-Al₁₃ on Aldehyde Dehydrogenase Activity on Reduced Graphene Oxide Modified Electrode. *Li, L.*, +, *JSEN Jan. 2013 314-320*
- Clocks**
- An Integrated High-Precision Probe System in 0.18- μm CMOS for Near-Field Magnetic Measurements on Cryptographic LSIs. *Mai-Khanh, N. N.*, +, *JSEN July 2013 2675-2682*
- Closed loop systems**
- A Closed-Loop Remote Powering Link for Wireless Cortical Implants. *Silay, K. M.*, +, *JSEN Sept. 2013 3226-3235*
- Experimental Study and Implementation of a Novel Digital Closed-Loop Control System for Coriolis Mass Flowmeter. *Hu, C.*, +, *JSEN Aug. 2013 3032-3038*
- High-Performance Closed-Loop Interface Circuit for High-Q Capacitive Microaccelerometers. *Ye, Z.*, +, *JSEN May 2013 1425-1433*
- Light-Harvesting Wireless Sensors for Indoor Lighting Control. *Pandhari-pande, A.*, +, *JSEN Dec. 2013 4599-4606*
- Signal Detection for Optical AC and DC Voltage Sensors Based on Pockels Effect. *Li, H.*, +, *JSEN June 2013 2245-2252*
- Two-Mass MEMS Velocity Sensor: Internal Feedback Loop Design. *Alshehri, A.*, +, *JSEN March 2013 1003-1011*
- Clothing**
- An Attachable Clothing Sensor System for Measuring Knee Joint Angles. *Bergmann, J. H. M.*, +, *JSEN Oct. 2013 4090-4097*
- Thermoelectric Energy Harvesting of Human Body Heat for Wearable Sensors. *Leonov, V.*, +, *JSEN June 2013 2284-2291*
- Clothing industry**
- A Flexible and Robust Large Scale Capacitive Tactile System for Robots. *Maiolino, P.*, +, *JSEN Oct. 2013 3910-3917*
- Clustering algorithms**
- Distributed Clustering With Directional Antennas for Wireless Sensor Networks. *Chen, Y.-C.*, +, *JSEN June 2013 2166-2180*
- Clutches**
- Gearbox Speed Sensor Design and Performance Optimization. *Manyala, J. O.*, +, *JSEN Feb. 2013 629-636*
- Clutter**
- A Design and Assessment of a Direction Finding Proximity Fuzze Sensor. *Choi, J.-H.*, +, *JSEN Aug. 2013 3079-3089*
- CMOS analog integrated circuits**
- A CMOS Sensor for Measurement of Cerebral Optical Coefficients Using Non-Invasive Frequency Domain Near Infrared Spectroscopy. *Sthalekar, C. C.*, +, *JSEN Sept. 2013 3166-3174*
- A CMOS-MEMS Resonator Integrated System for Oscillator Application. *Pachkawade, V.*, +, *JSEN Aug. 2013 2882-2889*
- An Integrated High-Precision Probe System in 0.18- μm CMOS for Near-Field Magnetic Measurements on Cryptographic LSIs. *Mai-Khanh, N. N.*, +, *JSEN July 2013 2675-2682*
- Comparison of Two CMOS Front-End Transimpedance Amplifiers for Optical Biosensors. *Trabelsi, A.*, +, *JSEN Feb. 2013 657-663*
- Design of A CMOS Intelligent Light Sensing Chip for Automatic Brightness Tuning Applications. *Chiang, C.-T.*, +, *JSEN Dec. 2013 4955-4961*
- On-Chip MOSFET Temperature Sensor for Electrical Characterization of RF Circuits. *Reverter, F.*, +, *JSEN Sept. 2013 3343-3344*
- Very Low 1/f Noise and Radiation-Hardened CMOS Preamplifier for High-Sensitivity Search Coil Magnetometers. *Rhouni, A.*, +, *JSEN Jan. 2013 159-166*
- CMOS digital integrated circuits**
- Design of CMOS Monolithic Digitized Light Transducer With Calibration Technique for Ambient Light Sensor Applications. *Chiang, C.-T.*, +, *JSEN May 2013 1931-1940*
- Low-Power Circuits and Energy Harvesting for Structural Health Monitoring of Bridges. *Wardlaw, J. L.*, +, *JSEN Feb. 2013 709-722*
- CMOS image sensors**
- A 768-Channel CMOS Microelectrode Array With Angle Sensitive Pixels for Neuronal Recording. *Johnson, B.*, +, *JSEN Sept. 2013 3211-3218*
- A Dual Probe STM Imaging System and a Low Noise Switched-Capacitor Transimpedance Amplifier. *Tang, Y.*, +, *JSEN Aug. 2013 2984-2992*
- A Low Noise Wide Dynamic Range CMOS Image Sensor With Low-Noise Transistors and 17b Column-Parallel ADCs. *Seo, M.-W.*, +, *JSEN Aug. 2013 2922-2929*
- An Adaptive Integration Time CMOS Image Sensor With Multiple Readout Channels. *Qian, X.*, +, *JSEN Dec. 2013 4931-4939*
- Biologically Inspired CMOS Image Sensor for Fast Motion and Polarization Detection. *Sarkar, M.*, +, *JSEN March 2013 1065-1073*
- CMOS Demodulation Image Sensor for Nanosecond Optical Waveform Analysis. *Bonjour, L.-E.*, +, *JSEN May 2013 1487-1497*
- Investigations on an Ultra-Thin Bendable Monolithic Si CMOS Image Sensor. *Dogiamis, G. C.*, +, *JSEN Oct. 2013 3892-3900*
- New Flash ADC Scheme With Maximal 13 Bit Variable Resolution and Reduced Clipped Noise for High-Performance Imaging Sensor. *Jin, X.*, +, *JSEN Jan. 2013 167-171*
- Novel Single-Slope ADC Design for Full Well Capacity Expansion of CMOS Image Sensor. *Yeh, S.-F.*, +, *JSEN March 2013 1012-1017*
- Photodetection With Gate-Controlled Lateral BJTs From Standard CMOS Technology. *Campos, F. S.*, +, *JSEN May 2013 1554-1563*
- CMOS integrated circuits**
- 2-D Differential Folded Vertical Hall Device Fabricated on a P-Type Substrate Using CMOS Technology. *Sung, G.-M.*, +, *JSEN June 2013 2253-2262*
- A Bio-Inspired APS for Selective Visual Attention. *Cottini, N.*, +, *JSEN Sept. 2013 3341-3342*
- A Capacitive Humidity Sensor Suitable for CMOS Integration. *Saeidi, N.*, +, *JSEN Nov. 2013 4487-4495*

- A CMOS Magnitude/Phase Measurement Chip for Impedance Spectroscopy. *Kassanos, P.*, +, *JSEN June 2013 2229-2236*
- A CMOS MEMS Capacitive Flow Sensor for Respiratory Monitoring. *Liao, S.-H.*, +, *JSEN May 2013 1401-1402*
- A Low-Power Directional Gamma-Ray Sensor System for Long-Term Radiation Monitoring. *Schrage, C.*, +, *JSEN July 2013 2610-2618*
- A Robust Low Power Carbon Nanotube Sensor Interface Circuit in 180 nm CMOS Technology. *Ren, S.*, +, *JSEN Dec. 2013 4786-4795*
- An Integrated Amplifier With Passive Neutralization of Myoelectric Interference From Neural Recording Tripoles. *Demosthenous, A.*, +, *JSEN Sept. 2013 3236-3248*
- CMOS Sensor Arrays for High Resolution Die Stress Mapping in Packaged Integrated Circuits. *Chen, Y.*, +, *JSEN June 2013 2066-2076*
- Design and Characterization of High-Voltage NMOS Structures in a 0.5 μm Standard CMOS Process. *Lee, T.-H.*, +, *JSEN Aug. 2013 2906-2913*
- High-Performance Closed-Loop Interface Circuit for High-Q Capacitive Microaccelerometers. *Ye, Z.*, +, *JSEN May 2013 1425-1433*
- High-Performance Interface Electronic System for a 13×13 Flexible Biomechanical Ground Reaction Sensor Array Achieving a Gait Ground Velocity Resolution of 100 $\mu\text{m}/\text{sec}$. *Guo, Q.*, +, *JSEN Nov. 2013 4496-4505*
- Humidity-to-Frequency Sensor in CMOS Technology With Wireless Readout. *Cirmirakis, D.*, +, *JSEN March 2013 900-908*
- Liquid Phase Deposition Based SnO_2 Gas Sensor Integrated With TaN Heater on a Micro-Hotplate. *Chiou, J.-C.*, +, *JSEN June 2013 2466-2473*
- Low-Power CMOS Smart Temperature Sensor With a Batch-Calibrated Inaccuracy of $\pm 0.25^\circ\text{C}$ ($\pm 3\sigma$) From -70°C to 130°C . *Aita, A. L.*, +, *JSEN May 2013 1840-1848*
- Model-Based Low-Noise Readout Integrated Circuit Design for Uncooled Microbolometers. *Lv, J.*, +, *JSEN April 2013 1207-1215*
- Optimization of the Local Evanescent Array-Coupled Optoelectronic Sensing Chip for Enhanced, Portable, Real-Time Sensing. *Erickson, T. A.*, +, *JSEN May 2013 1905-1913*
- Post-CMOS and Post-MEMS Compatible Flexible Skin Technologies: A Review. *Xu, Y.*, +, *JSEN Oct. 2013 3962-3975*
- Ratiometric Voltage-to-Frequency Converter for Long-Life Autonomous Portable Equipment. *Azcona, C.*, +, *JSEN June 2013 2382-2390*
- SWNT Based Nanosensors for Wireless Detection of Explosives and Chemical Warfare Agents. *Liu, Y.*, +, *JSEN Jan. 2013 202-210*
- Terahertz Detection With Nanoscale Semiconductor Rectifiers. *Chen, R.*, +, *JSEN Jan. 2013 24-30*
- Coaxial cables**
- Wire Fault Location in Coaxial Cables by Impedance Spectroscopy. *Shi, Q.*, +, *JSEN Nov. 2013 4465-4473*
- Code division multiplexing**
- Coded Corrugated Microfluidic Sidewalls for Code Division Multiplexing. *Javanmard, M.*, +, *JSEN May 2013 1399-1400*
- Cognition**
- An Innovative Strategy for Correctly Interpreting Simultaneous Acquisition of EEG Signals and fMRI Images. *Fabbiano, L.*, +, *JSEN Sept. 2013 3175-3181*
- Cognitive radio**
- A Novel Sensing Nodes and Decision Node Selection Method for Energy Efficiency of Cooperative Spectrum Sensing in Cognitive Sensor Networks. *Najimi, M.*, +, *JSEN May 2013 1610-1621*
- Optimal Truncated Ordered Sequential Cooperative Spectrum Sensing in Cognitive Radio. *Nguyen-Thanh, N.*, +, *JSEN Nov. 2013 4188-4195*
- Spectrum Sensing in Opportunity-Heterogeneous Cognitive Sensor Networks: How to Cooperate?. *Ding, G.*, +, *JSEN Nov. 2013 4247-4255*
- Coils**
- A Fully Integrated Hall Sensor Microsystem for Contactless Current Measurement. *Ajbl, A.*, +, *JSEN June 2013 2271-2278*
- A Wireless Passive Sensor for Temperature Compensated Remote pH Monitoring. *Bhadra, S.*, +, *JSEN June 2013 2428-2436*
- An Integrated High-Precision Probe System in 0.18- μm CMOS for Near-Field Magnetic Measurements on Cryptographic LSIs. *Mai-Khanh, N. N.*, +, *JSEN July 2013 2675-2682*
- An Optically-Interrogated Rogowski Coil for Passive, Multiplexable Current Measurement. *Orr, P.*, +, *JSEN June 2013 2053-2054*
- Autocalibration Method for Anisotropic Magnetoresistive Sensors Using Offset Coils. *Mohamadabadi, K.*, +, *JSEN Feb. 2013 772-776*
- Coil Optimization Method for Electromagnetic Induction Systems. *Reed, M. A.*, +, *JSEN Nov. 2013 4506-4512*
- Design of a Four-Channel Surface Receiver Coil Array Without Preamplifiers for the Decoupling Between Elements: Validation for High-Resolution Rat Knee MR Imaging. *Perrier, A.-L.*, +, *JSEN June 2013 2450-2458*
- Dual-Resonant Search Coil for Natural Electromagnetic Waves in the Near-Earth Environment. *Ozaki, M.*, +, *JSEN Feb. 2013 644-650*
- Humidity-to-Frequency Sensor in CMOS Technology With Wireless Readout. *Cirmirakis, D.*, +, *JSEN March 2013 900-908*
- Modeling of High-Frequency Electromagnetic Effects on an Ironless Inductive Position Sensor. *Danisi, A.*, +, *JSEN Dec. 2013 4663-4670*
- Parameters Identification and Modeling of High-Frequency Current Transducer for Partial Discharge Measurements. *Shafiq, M.*, +, *JSEN March 2013 1081-1091*
- Performance Improvement of Slow-Wave Rogowski Coils for High Impulse Current Measurement. *Metwally, I. A.*, +, *JSEN Feb. 2013 538-547*
- Very Low 1/f Noise and Radiation-Hardened CMOS Preamplifier for High-Sensitivity Search Coil Magnetometers. *Rhouni, A.*, +, *JSEN Jan. 2013 159-166*
- Wireless Energy and Data Transfer for In-Vivo Epileptic Focus Localization. *Yilmaz, G.*, +, *JSEN Nov. 2013 4172-4179*
- Collision avoidance**
- Cooperative Robotic Structure Mapping Using Wireless Measurements—A Comparison of Random and Coordinated Sampling Patterns. *Gonzalez-Ruiz, A.*, +, *JSEN July 2013 2571-2580*
- Flexible and Surface-Mountable Piezoelectric Sensor Arrays for Underwater Sensing in Marine Vehicles. *Asadnia, M.*, +, *JSEN Oct. 2013 3918-3925*
- Colloids**
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- Colorimetry**
- Assembly of Gold Nanorods for Highly Sensitive Detection of Mercury Ions. *Placido, T.*, +, *JSEN Aug. 2013 2834-2841*
- Combinatorial mathematics**
- Comparative Study of Task Allocation Strategies in Multirobot Systems. *Hatime, H.*, +, *JSEN Jan. 2013 253-262*
- Phase Transition Analysis of Target Coverage Problem in Wireless Sensor Networks. *Mini, S.*, +, *JSEN July 2013 2742-2749*
- Comparators (circuits)**
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- Compensation**
- A Closed-Loop Hydrogel-Based Chemical Sensor. *Schulz, V.*, +, *JSEN March 2013 994-1002*
- Frequency Response Improvement for Inertial Magnetoelectric Velocity Sensor Using Frequency-Selected Compensation Network. *Chen, X.*, +, *JSEN Nov. 2013 4141-4146*
- Novel Type of Temperature Self-Compensating Acceleration Transducer Based on OFBG. *Wang, C.*, +, *JSEN Aug. 2013 3012-3013*
- Study of Digital Dissolved Oxygen Analytical Sensor of ppb-Level. *Qi, X.*, +, *JSEN Nov. 2013 4279-4286*
- Complex networks**
- Modern Methods for the Description of Complex Couplings in the Neurophysiology of Respiration. *Jablonski, I.*, +, *JSEN Sept. 2013 3182-3192*
- Composite materials**
- Multi-Walled Carbon Nanotubes/Graphene Oxide Composites for Humidity Sensing. *Li, X.*, +, *JSEN Dec. 2013 4749-4756*
- Piezoelectricity of Well-Aligned Electrospun Fiber Composites. *Liu, Z.-H.*, +, *JSEN Oct. 2013 4098-4103*
- ZnO-Cellulose Composite for UV Sensing. *Gimenez, A. J.*, +, *JSEN April 2013 1301-1306*
- Compressed sensing**
- Aliasing-Free Moving Target Detection in Random Pulse Repetition Interval Radar Based on Compressed Sensing. *Liu, Z.*, +, *JSEN July 2013 2523-2534*
- Analysis of Energy Efficiency of Compressive Sensing in Wireless Sensor Networks. *Karakus, C.*, +, *JSEN May 2013 1999-2008*
- Enhanced Compressibility of EEG Signal in Alzheimer's Disease Patients. *Morabito, F. C.*, +, *JSEN Sept. 2013 3255-3262*
- Infrared Camera Using a Single Nano-Photodetector. *Chen, H.*, +, *JSEN March 2013 949-958*
- Nonuniform Compressive Sensing for Heterogeneous Wireless Sensor Networks. *Shen, Y.*, +, *JSEN June 2013 2120-2128*

Compressive strength

Embedded Flexible Force Sensor for In-Situ Tire-Road Interaction Measurements. *Zhang, Y.*, +, *JSEN May 2013 1756-1765*

Computability

Phase Transition Analysis of Target Coverage Problem in Wireless Sensor Networks. *Mini, S.*, +, *JSEN July 2013 2742-2749*

Computational complexity

Coverage-Enhancing Algorithm Based on Overlap-Sense Ratio in Wireless Multimedia Sensor Networks. *Chen, J.*, +, *JSEN June 2013 2077-2083*

Discrete-Time H_∞ Filtering for Mobile Robot Localization Using Wireless Sensor Network. *Hur, H.*, +, *JSEN Jan. 2013 245-252*

Two New Estimation Algorithms for Sensor Gain and Phase Errors Based on Different Data Models. *Jiang, J.*, +, *JSEN May 2013 1921-1930*

Computational fluid dynamics

Three-Dimensional Flexible Thermal Sensor for Intravascular Flow Monitoring. *Tang, R.*, +, *JSEN Oct. 2013 3991-3998*

Computational geometry

A Tessellation-Based Localized Chain Construction Scheme for Chain-Oriented Sensor Networks. *Mamun, Q.*, +, *JSEN July 2013 2648-2658*

Computer network security

The Impact of Rank Attack on Network Topology of Routing Protocol for Low-Power and Lossy Networks. *Le, A.*, +, *JSEN Oct. 2013 3685-3692*

Computer vision

A System-Prototype Representing 3D Space via Alternative-Sensing for Visually Impaired Navigation. *Bourbakis, N.*, +, *JSEN July 2013 2535-2547*

Biologically Inspired CMOS Image Sensor for Fast Motion and Polarization Detection. *Sarkar, M.*, +, *JSEN March 2013 1065-1073*

Geometrical Analysis of Localization Error in Stereo Vision Systems. *Fooladgar, F.*, +, *JSEN Nov. 2013 4236-4246*

Vision-Based Displacement Sensor for Monitoring Dynamic Response Using Robust Object Search Algorithm. *Fukuda, Y.*, +, *JSEN Dec. 2013 4725-4732*

Computerized instrumentation

Geometrical Analysis of Localization Error in Stereo Vision Systems. *Fooladgar, F.*, +, *JSEN Nov. 2013 4236-4246*

High-Resolution Touch Floor System Using Particle Swarm Optimization Neural Network. *Kim, H.*, +, *JSEN June 2013 2084-2093*

Historical-Log Recording System for Crack Opening and Growth Based on Mechanoluminescent Flexible Sensor. *Terasaki, N.*, +, *JSEN Oct. 2013 3999-4004*

Improving Performance of GMR Sensors. *Bernieri, A.*, +, *JSEN Nov. 2013 4513-4521*

Mobile Application for Impedance-Based Biomimetic Sensor Readout. *Broeders, J.*, +, *JSEN July 2013 2659-2665*

Recovering Amplitudes and Phases From Saturated Multifrequency Sinusoidal Signals. *Hu, C.*, +, *JSEN Nov. 2013 4569-4575*

Rough-Set-Based Feature Selection and Classification for Power Quality Sensing Device Employing Correlation Techniques. *Dalai, S.*, +, *JSEN Feb. 2013 563-573*

Sensing as a Service: Challenges, Solutions and Future Directions. *Sheng, X.*, +, *JSEN Oct. 2013 3733-3741*

THz SPICE for Modeling Detectors and Nonquadratic Response at Large Input Signal. *Gutin, A.*, +, *JSEN Jan. 2013 55-62*

Computerized monitoring

A Low-Power Directional Gamma-Ray Sensor System for Long-Term Radiation Monitoring. *Schrage, C.*, +, *JSEN July 2013 2610-2618*

A Mote Interface for Fiber Optic Spectral Sensing With Real-Time Monitoring of the Marine Environment. *O'Connell, E.*, +, *JSEN July 2013 2619-2625*

A Wireless Passive Sensor for Temperature Compensated Remote pH Monitoring. *Bhadra, S.*, +, *JSEN June 2013 2428-2436*

Architecture of Noninvasive Real Time Visual Monitoring System for Dial Type Measuring Instrument. *Jaffery, Z. A.*, +, *JSEN April 2013 1236-1244*

Environmental Monitoring Systems: A Review. *Kumar, A.*, +, *JSEN April 2013 1329-1339*

Online Monitoring of Geological CO₂ Storage and Leakage Based on Wireless Sensor Networks. *Yang, H.*, +, *JSEN Feb. 2013 556-562*

Vision-Based Displacement Sensor for Monitoring Dynamic Response Using Robust Object Search Algorithm. *Fukuda, Y.*, +, *JSEN Dec. 2013 4725-4732*

Computerized tomography

Concentration and Temperature Tomography at Elevated Pressures. *Wood, M. P.*, +, *JSEN Aug. 2013 3060-3066*

Data Pattern With ECT Sensor and Its Impact on Image Reconstruction. *Yang, Y.*, +, *JSEN May 2013 1582-1593*

Evaluation of Electrical Capacitance Tomography Sensors for Concentric Annulus. *Ye, J.*, +, *JSEN Feb. 2013 446-456*

Parallel-Data Reconstruction for Limited Views Tomography Sensors by Sinusoidal Hough Transform. *Cantoral-Ceballos, J. A.*, +, *JSEN Feb. 2013 581-588*

Concave programming

New Semidefinite Relaxation Method for Acoustic Energy-Based Source Localization. *Wang, G.*, +, *JSEN May 2013 1514-1521*

Concrete

Analysis and Back-Analysis for Temperature Field of Concrete Arch Dam During Construction Period Based on Temperature Data Measured by DTS. *Su, H.*, +, *JSEN May 2013 1403-1412*

Fiber Optic Strain Monitoring for Long-Term Evaluation of a Concrete Foot-bridge Under Extended Test Conditions. *Surre, F.*, +, *JSEN March 2013 1036-1043*

Condition monitoring

An Embroidered Two-Dimensional Chipless Strain Sensor for Wireless Structural Deformation Monitoring. *Vena, A.*, +, *JSEN Dec. 2013 4627-4637*

Architecture Exploration for a High-Performance and Low-Power Wireless Vibration Analyzer. *Shahzad, K.*, +, *JSEN Feb. 2013 670-682*

Commissioning and Evaluation of a Fiber-Optic Sensor System for Bridge Monitoring. *Scott, R. H.*, +, *JSEN July 2013 2555-2562*

Detecting Mechanoluminescence From ZnS:Mn Powder Using a High Speed Camera. *Kobakhidze, L.*, +, *JSEN Aug. 2013 3053-3059*

Fiber Optic Strain Monitoring for Long-Term Evaluation of a Concrete Foot-bridge Under Extended Test Conditions. *Surre, F.*, +, *JSEN March 2013 1036-1043*

Harvesting Energy From Magnetic Fields to Power Condition Monitoring Sensors. *Roscoe, N. M.*, +, *JSEN June 2013 2263-2270*

Historical-Log Recording System for Crack Opening and Growth Based on Mechanoluminescent Flexible Sensor. *Terasaki, N.*, +, *JSEN Oct. 2013 3999-4004*

Low-Power Circuits and Energy Harvesting for Structural Health Monitoring of Bridges. *Wardlaw, J. L.*, +, *JSEN Feb. 2013 709-722*

MEMS Force Sensor in a Flexible Substrate Using Nichrome Piezoresistors. *Ahmed, M.*, +, *JSEN Oct. 2013 4081-4089*

Monitoring of Actuation Conditions in a Micro-Turbo-Generator. *Beyaz, M. I.*, +, *JSEN Aug. 2013 2937-2943*

Novel Type of Temperature Self-Compensating Acceleration Transducer Based on OFBG. *Wang, C.*, +, *JSEN Aug. 2013 3012-3013*

Parameters Identification and Modeling of High-Frequency Current Transducer for Partial Discharge Measurements. *Shafiq, M.*, +, *JSEN March 2013 1081-1091*

Spatial Sensing Using Electrical Impedance Tomography. *Loyola, B. R.*, +, *JSEN June 2013 2357-2367*

Use of Tapered Optical Fiber Sensors in Study of the Hydration Process of Cement Paste. *Luo, D.*, +, *JSEN Sept. 2013 3415-3420*

Validation of Strain Gauges for Structural Health Monitoring With Bayesian Belief Networks. *Liu, Z.*, +, *JSEN Jan. 2013 400-407*

Vision-Based Displacement Sensor for Monitoring Dynamic Response Using Robust Object Search Algorithm. *Fukuda, Y.*, +, *JSEN Dec. 2013 4725-4732*

Wheel Flat Detection in High-Speed Railway Systems Using Fiber Bragg Gratings. *Filigrano, M. L.*, +, *JSEN Dec. 2013 4808-4816*

Wireless Temperature Sensor for Condition Monitoring of Bearings Operating Through Thick Metal Plates. *Gupta, L. A.*, +, *JSEN June 2013 2292-2298*

Conducting materials

Spatial and Time Patterns Extraction of Eddy Current Pulsed Thermography Using Blind Source Separation. *Bai, L.*, +, *JSEN June 2013 2094-2101*

Conducting polymers

Aerosol-Printed Strain Sensor Using PEDOT:PSS. *Thompson, B.*, +, *JSEN Nov. 2013 4256-4263*

Paper-Based Flexible Taxel Device Using Electrical Contact Resistance Variation for Elasticity Measurement on Biological Objects. *Shiau, C.-C.*, +, *JSEN Oct. 2013 4038-4044*

Polypropylene-Carbon Nanofiber Composites as Strain-Gauge Sensor. *Rocha, J. G.*, +, *JSEN July 2013 2603-2609*

Sensitive Detection of Nitroaromatics With Colloidal Conjugated Polymer Nanoparticles. *Satapathi, S.*, +, *JSEN June 2013 2329-2333*

Confined flow

Nondestructive Evaluation of Diesel Spray Holes Using Piezoresistive Sensors. *Peiner, E.*, +, *JSEN Feb. 2013 701-708*

Contact angle

Design and Modeling of a Wide Dynamic-Range Hardness Sensor for Biological Tissue Assessment. *Zhao, S.*, +, *JSEN Dec. 2013 4613-4620*

Containers

Contactless Liquid-Level Measurement With Frequency-Modulated Millimeter Wave Through Opaque Container. *Nakagawa, T.*, +, *JSEN March 2013 926-933*

Control engineering computing

Eye Control System Base on Ameliorated Hough Transform Algorithm. *Xiong, J.*, +, *JSEN Sept. 2013 3421-3429*

Control nonlinearities

Piezoelectric Vibratory-Cantilever Force Sensors and Axial Sensitivity Analysis for Individual Triaxial Tactile Sensing. *Yamashita, K.*, +, *JSEN March 2013 1074-1080*

Control system synthesis

Two-Mass MEMS Velocity Sensor: Internal Feedback Loop Design. *Alshehri, A.*, +, *JSEN March 2013 1003-1011*

Convection

Three-Dimensional Flexible Thermal Sensor for Intravascular Flow Monitoring. *Tang, R.*, +, *JSEN Oct. 2013 3991-3998*

Convex programming

A Novel Sensing Nodes and Decision Node Selection Method for Energy Efficiency of Cooperative Spectrum Sensing in Cognitive Sensor Networks. *Najimi, M.*, +, *JSEN May 2013 1610-1621*

Coil Optimization Method for Electromagnetic Induction Systems. *Reed, M. A.*, +, *JSEN Nov. 2013 4506-4512*

Cooperative communication

A Novel Sensing Nodes and Decision Node Selection Method for Energy Efficiency of Cooperative Spectrum Sensing in Cognitive Sensor Networks. *Najimi, M.*, +, *JSEN May 2013 1610-1621*

Cross-Layer Solutions for Extended-Range Wireless Sensor Networks. *Lin, C.-K.*, +, *JSEN March 2013 1044-1054*

Distributed Fuzzy Logic-Based Relay Selection Algorithm for Cooperative Wireless Sensor Networks. *Brante, G.*, +, *JSEN Nov. 2013 4375-4386*

Spectrum Sensing in Opportunity-Heterogeneous Cognitive Sensor Networks: How to Cooperate?. *Ding, G.*, +, *JSEN Nov. 2013 4247-4255*

Cooperative systems

EPS: An Efficient and Privacy-Preserving Service Searching Scheme for Smart Community. *Liang, X.*, +, *JSEN Oct. 2013 3702-3710*

Coplanar waveguides

Design of a Coplanar Sensor for RF Characterization of Thin Dielectric Samples. *Shete, M.*, +, *JSEN Dec. 2013 4706-4715*

Displacement Sensor Based on Diamond-Shaped Tapered Split Ring Resonator. *Horestani, A. K.*, +, *JSEN April 2013 1153-1160*

Rotation Sensor Based on Horn-Shaped Split Ring Resonator. *Horestani, A. K.*, +, *JSEN Aug. 2013 3014-3015*

Copper

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Copper alloys

Metal-Silver Based Electrodes as Sensitive Surfaces for Electrochemical Detection of Thio-Heterocycles. *Lai-Hao, W.*, +, *JSEN Sept. 2013 3442-3448*

Correlation methods

A Detailed Evaluation of the Correlation-Based Method Used for Estimation of the Brillouin Frequency Shift in BOTDA Sensors. *Farahani, M. A.*, +, *JSEN Dec. 2013 4589-4598*

A Rapid and Cost Effective Method for Measurement of Cyclosporine. *Mirmohseni, A.*, +, *JSEN Nov. 2013 4542-4545*

Rough-Set-Based Feature Selection and Classification for Power Quality Sensing Device Employing Correlation Techniques. *Dalai, S.*, +, *JSEN Feb. 2013 563-573*

Corrosion

Corrosion Energy: A Novel Source to Power the Wireless Sensor. *Qiao, G.*, +, *JSEN April 2013 1141-1142*

Corrosion protection

Capacitive Sensor for Measuring the Filled of Post-Tensioned Ducts. Experimental Setup, Modeling and Signal Processing. *Bore, T.*, +, *JSEN Feb. 2013 457-465*

Cosmic ray apparatus

Adaptive Neuro-Fuzzy Inference System-Based Remote Bulk Soil Moisture Estimation: Using CosmOz Cosmic Ray Sensor. *Dutta, R.*, +, *JSEN June 2013 2374-2381*

Cost reduction

Time Horizon Selection Using Feature Feedback for the Implementation of an E-Nose System. *Jeong, G.-M.*, +, *JSEN May 2013 1575-1581*

Crack detection

Dynamics-Based Stereo Visual Inspection Using Multidimensional Modal Analysis. *Yang, H.*, +, *JSEN Dec. 2013 4831-4843*

Flexible Wireless Antenna Sensor: A Review. *Huang, H.*, +, *JSEN Oct. 2013 3865-3872*

Historical-Log Recording System for Crack Opening and Growth Based on Mechanoluminescent Flexible Sensor. *Terasaki, N.*, +, *JSEN Oct. 2013 3999-4004*

RFID Tag Antenna-Based Sensing for Pervasive Surface Crack Detection. *Kalansuriya, P.*, +, *JSEN May 2013 1564-1570*

Spatial and Time Patterns Extraction of Eddy Current Pulsed Thermography Using Blind Source Separation. *Bai, L.*, +, *JSEN June 2013 2094-2101*

Cracks

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Crops

An Associative Relational Impact of Water Quality on Crop Yield: A Comprehensive Index Analysis Using LISS-III Sensor. *Singh, K.*, +, *JSEN Dec. 2013 4912-4917*

Cryogenic electronics

Phase-Sensitive Terahertz Self-Heterodyne System Based on Photodiode and Low-Temperature-Grown GaAs Photoconductor at 1.55 μm . *Hisatake, S.*, +, *JSEN Jan. 2013 31-36*

Cryptographic protocols

Efficient ASIC Implementation and Analysis of Two EPC-C1G2 RFID Authentication Protocols. *Martin, H.*, +, *JSEN Oct. 2013 3537-3547*

Cryptography

An Integrated High-Precision Probe System in 0.18- μm CMOS for Near-Field Magnetic Measurements on Cryptographic LSIs. *Mai-Khanh, N. N.*, +, *JSEN July 2013 2675-2682*

Crystal growth from solution

A Wide Range Conductometric pH Sensor Made With Titanium Dioxide/Multiwall Carbon Nanotube/Cellulose Hybrid Nanocomposite. *Chen, Y.*, +, *JSEN Nov. 2013 4157-4162*

Crystal resonators

Highly Sensitive Lateral Field Excited Piezoelectric Film Acoustic Enzyme Biosensor. *Chen, D.*, +, *JSEN June 2013 2217-2222*

Passive Wireless Sensor Platform Utilizing a Mechanical Resonator. *Viikari, V.*, +, *JSEN April 2013 1180-1186*

Scalar Differential Equation for Slowly-Varying Thickness-Shear Modes in AT-Cut Quartz Resonators With Surface Impedance for Acoustic Wave Sensor Application. *He, H.*, +, *JSEN Nov. 2013 4349-4355*

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Piezoelectricity of Well-Aligned Electrospun Fiber Composites. *Liu, Z.-H.*, +, *JSEN Oct. 2013 4098-4103*

Curing

Use of Tapered Optical Fiber Sensors in Study of the Hydration Process of Cement Paste. *Luo, D.*, +, *JSEN Sept. 2013 3415-3420*

Current measurement

A Fully Integrated Hall Sensor Microsystem for Contactless Current Measurement. *Ajbl, A.*, +, *JSEN June 2013 2271-2278*

Current mirrors

CMOS Sensor Arrays for High Resolution Die Stress Mapping in Packaged Integrated Circuits. *Chen, Y.*, +, *JSEN June 2013 2066-2076*

Current transformers

Performance Improvement of Slow-Wave Rogowski Coils for High Impulse Current Measurement. *Metwally, I. A.*, +, *JSEN Feb. 2013 538-547*

Curvature measurement

Highly Sensitive Curvature Sensor Using an In-Fiber Mach-Zehnder Interferometer. *Wang, R.*, +, *JSEN May 2013 1766-1770*

CW radar

A Deramping-Based Multiband Radar Sensor Concept With Enhanced ISAR Capabilities. *Munoz-Ferreras, J.-M.*, +, *JSEN Sept. 2013 3361-3368*

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D

Dams

Analysis and Back-Analysis for Temperature Field of Concrete Arch Dam During Construction Period Based on Temperature Data Measured by DTS. *Su, H.*, +, *JSEN May 2013 1403-1412*

Fiber Optic Bending Sensor for Water Level Monitoring: Development and Field Test: A Review. *Rosolem, J. B.*, +, *JSEN Nov. 2013 4113-4120*

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Data acquisition

Acceleration of Measurements in BOTDA Sensors Using Adaptive Linear Prediction. *Farahani, M. A.*, +, *JSEN Jan. 2013 263-272*

Spatial Resolution Improvement of Distributed Raman Temperature Measurement System. *Wang, Z. L.*, +, *JSEN Nov. 2013 4271-4278*

Data communication

Hazardless Biomedical Sensing Data Transmission Using VLC. *Cheong, Y.-K.*, +, *JSEN Sept. 2013 3347-3348*

Stretchable Conductors Enabled by Metal Coated Polymer Spheres. *Vardoy, A.-S. B.*, +, *JSEN Oct. 2013 4049-4055*

Wireless Energy and Data Transfer for In-Vivo Epileptic Focus Localization. *Yilmaz, G.*, +, *JSEN Nov. 2013 4172-4179*

Data compression

Edge Mining the Internet of Things. *Gaura, E. I.*, +, *JSEN Oct. 2013 3816-3825*

Data gloves

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Data loggers

Historical-Log Recording System for Crack Opening and Growth Based on Mechanoluminescent Flexible Sensor. *Terasaki, N.*, +, *JSEN Oct. 2013 3999-4004*

Data mining

Edge Mining the Internet of Things. *Gaura, E. I.*, +, *JSEN Oct. 2013 3816-3825*

QoI-Aware Energy-Efficient Participatory Crowdsourcing. *Liu, C. H.*, +, *JSEN Oct. 2013 3742-3753*

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Two New Estimation Algorithms for Sensor Gain and Phase Errors Based on Different Data Models. *Jiang, J.*, +, *JSEN May 2013 1921-1930*

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Edge Mining the Internet of Things. *Gaura, E. I.*, +, *JSEN Oct. 2013 3816-3825*

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Modern Methods for the Description of Complex Couplings in the Neurophysiology of Respiration. *Jablonski, I.*, +, *JSEN Sept. 2013 3182-3192*

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Data structures

eCushion: A Textile Pressure Sensor Array Design and Calibration for Sitting Posture Analysis. *Xu, W.*, +, *JSEN Oct. 2013 3926-3934*

Information Abstraction for Heterogeneous Real World Internet Data. *Ganz, F.*, +, *JSEN Oct. 2013 3793-3805*

DC-DC power converters

Design of A CMOS Intelligent Light Sensing Chip for Automatic Brightness Tuning Applications. *Chiang, C.-T.*, +, *JSEN Dec. 2013 4955-4961*

Optimization of Voltage Doublers for Energy Harvesting Applications. *Roscoe, N. M.*, +, *JSEN Dec. 2013 4904-4911*

Decision making

QoI-Aware Energy-Efficient Participatory Crowdsourcing. *Liu, C. H.*, +, *JSEN Oct. 2013 3742-3753*

Sensor Fusion and Target Tracking Using Evidential Data Association. *Dallil, A.*, +, *JSEN Jan. 2013 285-293*

Decision support systems

Performance Evaluation of South Esk Hydrological Sensor Web: Unsupervised Machine Learning and Semantic Linked Data Approach. *Dutta, R.*, +, *JSEN Oct. 2013 3806-3815*

Decomposition

Robust Classification Scheme for Airplane Targets With Low Resolution Radar Based on EMD-CLEAN Feature Extraction Method. *Du, L.*, +, *JSEN Dec. 2013 4648-4662*

Deconvolution

Improving the Spatial Resolution of Magneto Resistive Sensors via Deconvolution. *Holzl, P. A.*, +, *JSEN Nov. 2013 4296-4304*

Stick-On Piezoelectromagnetic AC Current Monitoring of Circuit Breaker Panels. *Xu, Q. R.*, +, *JSEN March 2013 1055-1064*

Deformation

A Flexible Multifunctional Sensor Based on Carbon Nanotube/Polyurethane Composite. *Slobodian, P.*, +, *JSEN Oct. 2013 4045-4048*

An Embroidered Two-Dimensional Chipless Strain Sensor for Wireless Structural Deformation Monitoring. *Vena, A.*, +, *JSEN Dec. 2013 4627-4637*

Organic Bendable and Stretchable Field Effect Devices for Sensing Applications. *Loi, A.*, +, *JSEN Dec. 2013 4764-4772*

Piezoelectric Force Response of Novel 2D Textile Based PVDF Sensors. *Krajewski, A. S.*, +, *JSEN Dec. 2013 4743-4748*

W-Shaped Cantilevers for Scanning Force Microscopy. *Le Rouzic, J.*, +, *JSEN April 2013 1340-1346*

Delay circuits

A Novel Closed-Loop Readout Topology for Monolithically Integrated Surface Acoustic Wave Sensors. *Rakshit, S.*, +, *JSEN Nov. 2013 4264-4270*

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GaN-Based S₀-Wave Sensors on Silicon for Chemical and Biological Sensing in Liquid Environments. *Lu, X.*, +, *JSEN April 2013 1245-1251*

Demodulation

CMOS Demodulation Image Sensor for Nanosecond Optical Waveform Analysis. *Bonjour, L.-E.*, +, *JSEN May 2013 1487-1497*

Novel Optimization Algorithm to Demodulate a PZT-FBG Sensor in AC High Voltage Measurements. *de Assumpcao Ribeiro, B.*, +, *JSEN April 2013 1259-1264*

Pulse Detection by Gated Synchronous Demodulation. *Efthymiou, S.*, +, *JSEN Sept. 2013 3349-3360*

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Wireless Energy and Data Transfer for In-Vivo Epileptic Focus Localization. *Yilmaz, G.*, +, *JSEN Nov. 2013 4172-4179*

Dendrites

Metal-Silver Based Electrodes as Sensitive Surfaces for Electrochemical Detection of Thio-Heterocycles. *Lai-Hao, W.*, +, *JSEN Sept. 2013 3442-3448*

Dendritic structure

Metal-Silver Based Electrodes as Sensitive Surfaces for Electrochemical Detection of Thio-Heterocycles. *Lai-Hao, W.*, +, *JSEN Sept. 2013 3442-3448*

Density measurement

Inkjet Printed All-Polymer Flexural Plate Wave Sensors. *Sielmann, C. J.*, +, *JSEN Oct. 2013 4005-4013*

Dentistry

Fiber Optic Displacement Sensor Using Multimode Plastic Fiber Probe and Tooth Surface. *Rahman, H. A.*, +, *JSEN Jan. 2013 294-298*

Force Sensor Design and Measurement for Endodontic Therapy. *Tsao, C.-C.*, +, *JSEN July 2013 2636-2642*

Design engineering

Gearbox Speed Sensor Design and Performance Optimization. *Manyala, J. O.*, +, *JSEN Feb. 2013 629-636*

Design of experiments

Fast Design Space Exploration of Vibration-Based Energy Harvesting Wireless Sensors. *Kazmierski, T. J.*, +, *JSEN Nov. 2013 4393-4401*

Desorption

A Micropreconcentrator Design Using Low Temperature Cofired Ceramics Technology for Acetone Detection Applications. *Rydosz, A.*, +, *JSEN May 2013 1889-1896*

Physical-Based Characterization of Noise Responses in Metal-Oxide Gas Sensors. *Contaret, T.*, +, *JSEN March 2013 980-986*

Detonation

Sensing the Thermal History of High-Explosive Detonations Using Thermoluminescent Microparticles. *Mah, M. L.*, +, *JSEN May 2013 1742-1747*

Dexterous manipulators

Artificial Sense of Slip—A Review. *Francomano, M. T.*, +, *JSEN July 2013 2489-2498*

Development of a Flexible 3-D Tactile Sensor System for Anthropomorphic Artificial Hand. *Zhang, T.*, +, *JSEN Feb. 2013 510-518*

- Friction in Totally Optical Robotic Finger Oriented on Shear Force Measurement. *Massaro, A.*, +, *JSEN Feb. 2013 548-555*
- Diamagnetic materials**
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- Diamond**
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- Diaphragms**
All Fiber-Optic Sensor for Monitoring Pressure Fluctuations in ON/OFF State. *Nath, P.*, +, *JSEN April 2013 1148-1152*
- Dielectric properties**
Modern Resonator Spectroscopy at Submillimeter Wavelengths. *Parshin, V. V.*, +, *JSEN Jan. 2013 18-23*
- Dielectric thin films**
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- Diesel engines**
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- Differential amplifiers**
An Integrated High-Precision Probe System in 0.18- μm CMOS for Near-Field Magnetic Measurements on Cryptographic LSIs. *Mai-Khanh, N. N.*, +, *JSEN July 2013 2675-2682*
- Differential equations**
Scalar Differential Equation for Slowly-Varying Thickness-Shear Modes in AT-Cut Quartz Resonators With Surface Impedance for Acoustic Wave Sensor Application. *He, H.*, +, *JSEN Nov. 2013 4349-4355*
- Diffraction gratings**
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Coded Corrugated Microfluidic Sidewalls for Code Division Multiplexing. *Javanmard, M.*, +, *JSEN May 2013 1399-1400*
Detection of Fuel Adulteration With High Sensitivity Using Turnaround Point Long Period Fiber Gratings in B/Ge Doped Fibers. *Kher, S.*, +, *JSEN Nov. 2013 4482-4486*
Theory and Design of a Novel Integrated Polarimetric Sensor Utilizing a Light Sorting Metamaterial Grating. *Mandel, I.*, +, *JSEN Feb. 2013 618-625*
- Digital control**
Experimental Study and Implementation of a Novel Digital Closed-Loop Control System for Coriolis Mass Flowmeter. *Hu, C.*, +, *JSEN Aug. 2013 3032-3038*
- Digital filters**
Efficient Signal Conditioning Techniques for Brain Activity in Remote Health Monitoring Network. *Karthik, G. V. S.*, +, *JSEN Sept. 2013 3276-3283*
Improving the Spatial Resolution of Magneto Resistive Sensors via Deconvolution. *Holz, P. A.*, +, *JSEN Nov. 2013 4296-4304*
- Digital readout**
Humidity-to-Frequency Sensor in CMOS Technology With Wireless Readout. *Cirmirakis, D.*, +, *JSEN March 2013 900-908*
Model-Based Low-Noise Readout Integrated Circuit Design for Uncooled Microbolometers. *Lv, J.*, +, *JSEN April 2013 1207-1215*
- Digital signatures**
Classification of Animals and People Ultrasonic Signatures. *Damarla, T.*, +, *JSEN MAY 2013 1464-1472*
- Digital-analog conversion**
Experimental Study and Implementation of a Novel Digital Closed-Loop Control System for Coriolis Mass Flowmeter. *Hu, C.*, +, *JSEN Aug. 2013 3032-3038*
- Direction-of-arrival estimation**
A Design and Assessment of a Direction Finding Proximity Fuze Sensor. *Choi, J.-H.*, +, *JSEN Aug. 2013 3079-3089*
DuRT: Dual RSSI Trend Based Localization for Wireless Sensor Networks. *Sahu, P. K.*, +, *JSEN Aug. 2013 3115-3123*
Mixed Near-Field and Far-Field Sources Localization Using the Uniform Linear Sensor Array. *Jiang, J.-J.*, +, *JSEN Aug. 2013 3136-3143*
On the Use of Modified Crámér-Rao Bound in Sensor Deployment. *Pino-Povedano, S.*, +, *JSEN Nov. 2013 4163-4171*
Particle Filtering for Acoustic Source Tracking in Impulsive Noise With Alpha-Stable Process. *Zhong, X.*, +, *JSEN Feb. 2013 589-600*
- Two New Estimation Algorithms for Sensor Gain and Phase Errors Based on Different Data Models. *Jiang, J.*, +, *JSEN May 2013 1921-1930*
- Directional antennas**
Distributed Clustering With Directional Antennas for Wireless Sensor Networks. *Chen, Y.-C.*, +, *JSEN June 2013 2166-2180*
- Directive antennas**
Cross-Layer Solutions for Extended-Range Wireless Sensor Networks. *Lin, C.-K.*, +, *JSEN March 2013 1044-1054*
Distributed Clustering With Directional Antennas for Wireless Sensor Networks. *Chen, Y.-C.*, +, *JSEN June 2013 2166-2180*
- Disc drives**
Integration of Thin Film Strain Sensors Into Hard Drives for Active Feedback Vibration Suppression. *Felix, S.*, +, *JSEN May 2013 1708-1715*
- Discrete Fourier transforms**
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- Discrete time systems**
Discrete-Time H_∞ Filtering for Mobile Robot Localization Using Wireless Sensor Network. *Hur, H.*, +, *JSEN Jan. 2013 245-252*
- Discrete wavelet transforms**
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Novel Wavelet-mFCM Algorithm for Environmental Sensor Drift Correction. *Dutta, R.*, +, *JSEN July 2013 2519-2520*
- Diseases**
A Novel Flexible Thermoelectric Sensor for Intravascular Flow Assessment. *van der Horst, A.*, +, *JSEN Oct. 2013 3883-3891*
Comparison of Low-Cost and Noninvasive Optical Sensors for Cardiovascular Monitoring. *Pereira, T.*, +, *JSEN May 2013 1434-1441*
Design of Pervasive Rehabilitation Monitoring for Chronic Obstructive Pulmonary Disease. *Wu, M.-F.*, +, *JSEN Nov. 2013 4413-4422*
Detection of Hepatitis B DNA Sequences on Polyelectrolyte Based Non-Covalently Functionalized Flexible Plastic Substrates. *Goudar, V. S.*, +, *JSEN Dec. 2013 4817-4823*
Development of a Non-Contact Sensing Method for Scratching Activity Measurement. *Kurihara, Y.*, +, *JSEN Sept. 2013 3325-3330*
Enhanced Compressibility of EEG Signal in Alzheimer's Disease Patients. *Morabito, F. C.*, +, *JSEN Sept. 2013 3255-3262*
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Evaluation of Oxidized-Low-Density Lipoproteins Using Kelvin Force Microscopy. *Takeda, S.*, +, *JSEN Sept. 2013 3449-3453*
Ion Sensor for the Quantification of Sodium in Sweat Samples. *Wujcik, E. K.*, +, *JSEN Sept. 2013 3430-3436*
Mechanomyography Sensor Development, Related Signal Processing, and Applications: A Systematic Review. *Islam, M. A.*, +, *JSEN July 2013 2499-2516*
Ocular Biometric Measurements to Diagnose Neurological Disorders Due to Wilson Disease. *Morello, R.*, +, *JSEN Sept. 2013 3203-3210*
Quantum-Dot-Based Aptamer Beacons for K⁺ Detection. *Wu, T.-C.*, +, *JSEN May 2013 1549-1553*
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- Displacement measurement**
Application of a Fiber Bragg Grating-Based Sensing System on Investigating Dynamic Behaviors of a Cantilever Beam Under Impact or Moving Mass Loadings. *Chuang, K.-C.*, +, *JSEN Jan. 2013 389-399*
Design and Analysis of an Embedded Accelerometer Coupled Self-Mixing Laser Displacement Sensor. *Zabit, U.*, +, *JSEN June 2013 2200-2207*
Displacement Sensor Based on Diamond-Shaped Tapered Split Ring Resonator. *Horestani, A. K.*, +, *JSEN April 2013 1153-1160*
Dynamics-Based Stereo Visual Inspection Using Multidimensional Modal Analysis. *Yang, H.*, +, *JSEN Dec. 2013 4831-4843*
Fiber Optic Displacement Sensor Using Multimode Plastic Fiber Probe and Tooth Surface. *Rahman, H. A.*, +, *JSEN 2013 294-298*
Interferometric Interrogation of the Inclination and Displacement of Tapered Fiber Mach-Zehnder Interferometers. *Chen, N.-K.*, +, *JSEN Sept. 2013 3437-3441*
Microwave Displacement Sensor for Hydraulic Devices. *Fericean, S.*, +, *JSEN Dec. 2013 4682-4689*
Performance of a New Bundle Fiber Sensor of 1000 RF in Comparison With 16 RF Probe. *Abdullah, M.*, +, *JSEN Nov. 2013 4522-4526*

- Self-Mixing Laser Sensor for Large Displacements: Signal Recovery in the Presence of Speckle. *Zabit, U.*, +, *JSEN Feb. 2013 824-831*
- Study of Laser Feedback Phase Under Self-Mixing Leading to Improved Phase Unwrapping for Vibration Sensing. *Bernal, O. D.*, +, *JSEN Dec. 2013 4962-4971*
- Tidal Volume Measurement Through Non-Contact Doppler Radar With DC Reconstruction. *Massagram, W.*, +, *JSEN Sept. 2013 3397-3404*
- Truly Nonintrusive Liquid-Level-Sensing Method Based on Lateral Displacement Effect of Light Rays. *Singh, H. K.*, +, *JSEN Feb. 2013 801-806*
- Vision-Based Displacement Sensor for Monitoring Dynamic Response Using Robust Object Search Algorithm. *Fukuda, Y.*, +, *JSEN Dec. 2013 4725-4732*
- Distance measurement**
- A Stereo Vision-Based Self-Localization System. *Chiang, J.-S.*, +, *JSEN May 2013 1677-1689*
- Distance Measurement Utilizing Image-Based Triangulation. *Liebe, C. C.*, +, *JSEN Jan. 2013 234-244*
- Distortion**
- Performance Improvement of Slow-Wave Rogowski Coils for High Impulse Current Measurement. *Metwally, I. A.*, +, *JSEN Feb. 2013 538-547*
- Distributed algorithms**
- Data Persistency in Wireless Sensor Networks Using Distributed Luby Transform Codes. *Jafarizadeh, S.*, +, *JSEN Dec. 2013 4880-4890*
- On Design of Collaborative Mobile Sensor Networks for Deadline-Sensitive Mobile Target Detection. *Hsu, C.-C.*, +, *JSEN Aug. 2013 2962-2972*
- Distributed feedback lasers**
- Distributed Feedback Laser Biosensor Noise Reduction. *Tan, Y.*, +, *JSEN May 2013 1972-1978*
- Distributed sensors**
- Analysis and Back-Analysis for Temperature Field of Concrete Arch Dam During Construction Period Based on Temperature Data Measured by DTS. *Su, H.*, +, *JSEN May 2013 1403-1412*
- Ant-Search Strategy Based on Likelihood Trail Intensity Modification for Multiple-Fault Diagnosis in Sensor Networks. *Arpaia, P.*, +, *JSEN Jan. 2013 148-158*
- Performance Evaluation of South Esk Hydrological Sensor Web: Unsupervised Machine Learning and Semantic Linked Data Approach. *Dutta, R.*, +, *JSEN Oct. 2013 3806-3815*
- Spatial Resolution Improvement of Distributed Raman Temperature Measurement System. *Wang, Z. L.*, +, *JSEN Nov. 2013 4271-4278*
- Distribution networks**
- Harvesting Energy From Magnetic Fields to Power Condition Monitoring Sensors. *Roscoe, N. M.*, +, *JSEN June 2013 2263-2270*
- Diversity reception**
- Spectrum Sensing in Opportunity-Heterogeneous Cognitive Sensor Networks: How to Cooperate?. *Ding, G.*, +, *JSEN Nov. 2013 4247-4255*
- Divide and conquer methods**
- Effective Data Collection Via Satellite-Routed Sensor System (SRSS) to Realize Global-Scaled Internet of Things. *Kawamoto, Y.*, +, *JSEN Oct. 2013 3645-3654*
- DNA**
- Constructing a Novel Asymmetric Dielectric Structure Toward the Realization of High-Performance Surface Plasmon Resonance Biosensors. *Chiu, N.-F.*, +, *JSEN Sept. 2013 3483-3489*
- Deoxyribonucleic Acid Functionalized Carbon Nanotube Network as Humidity Sensors. *Paul, A.*, +, *JSEN May 2013 1806-1816*
- Detection of Hepatitis B DNA Sequences on Polyelectrolyte Based Non-Covalently Functionalized Flexible Plastic Substrates. *Goudar, V. S.*, +, *JSEN Dec. 2013 4817-4823*
- Droplet-Based Sensing: Optical Microresonator Sensors Embedded in Digital Electrowetting Microfluidics Systems. *Royal, M. W.*, +, *JSEN Dec. 2013 4733-4742*
- Modeling and Estimating Simulated DNA Nanopore Translocation Signals. *Qiu, W.*, +, *JSEN April 2013 1216-1222*
- Optical Detection of Lead(II) Ions Using DNA-Based Nanosensor. *Brenneman, K. L.*, +, *JSEN May 2013 1783-1786*
- Quantum-Dot-Based Aptamer Beacons for K^+ Detection. *Wu, T.-C.*, +, *JSEN May 2013 1549-1553*
- Domestic appliances**
- Analytical Modeling of Square Microhotplate for Gas Sensing Application. *Saxena, G.*, +, *JSEN Dec. 2013 4851-4859*
- Doping**
- Characteristics of an Optical Fiber Hydrogen Gas Sensor Based on a Palladium and Yttrium Alloy Thin Film. *Liu, Y.*, +, *JSEN July 2013 2699-2704*
- Doping Characteristics of Polycrystalline Silicon Deposited by Chemical Transport at Atmospheric Pressure and its Application to MEMS Sensor. *Naito, T.*, +, *JSEN Aug. 2013 2899-2905*
- Doppler effect**
- Classification of Animals and People Ultrasonic Signatures. *Damarla, T.*, +, *JSEN MAY 2013 1464-1472*
- Doppler measurement**
- Contactless Liquid-Level Measurement With Frequency-Modulated Millimeter Wave Through Opaque Container. *Nakagawa, T.*, +, *JSEN March 2013 926-933*
- Estimating Colloidal Concentration Using Acoustic Backscatter. *Fuller, C. B.*, +, *JSEN Nov. 2013 4546-4555*
- Doppler radar**
- Aliasing-Free Moving Target Detection in Random Pulse Repetition Interval Radar Based on Compressed Sensing. *Liu, Z.*, +, *JSEN July 2013 2523-2534*
- Cancellation of Unwanted Doppler Radar Sensor Motion Using Empirical Mode Decomposition. *Mostafanezhad, I.*, +, *JSEN May 2013 1897-1904*
- Fish Heart Rate Monitoring by Body-Contact Doppler Radar. *Hafner, N.*, +, *JSEN Jan. 2013 408-414*
- Tidal Volume Measurement Through Non-Contact Doppler Radar With DC Reconstruction. *Massagram, W.*, +, *JSEN Sept. 2013 3397-3404*
- Drops**
- Droplet-Based Sensing: Optical Microresonator Sensors Embedded in Digital Electrowetting Microfluidics Systems. *Royal, M. W.*, +, *JSEN Dec. 2013 4733-4742*
- Improvement of Odor Blender Using Electroosmotic Pumps and SAW Atomizer for Low-Volatile Scents. *Ariyakul, Y.*, +, *JSEN Dec. 2013 4918-4923*
- Drugs**
- A Linear Approach to Multi-Panel Sensing in Personalized Therapy for Cancer Treatment. *Baj-Rossi, C.*, +, *JSEN Dec. 2013 4860-4865*
- A Rapid and Cost Effective Method for Measurement of Cyclosporine. *Mir-mohseni, A.*, +, *JSEN Nov. 2013 4542-4545*
- Isotropically Etched Silicon Microarrays for Rapid Breast Cancer Cell Capture. *Nikkhah, M.*, +, *JSEN March 2013 1125-1132*
- Studies on Influence of (2-Hydroxypropyl)- β -Cyclodextrin on Properties of a New Indomethacin Electrode. *Lenik, J.*, +, *JSEN Dec. 2013 4638-4647*
- Ducts**
- Capacitive Sensor for Measuring the Filled of Post-Tensioned Ducts. Experimental Setup, Modeling and Signal Processing. *Bore, T.*, +, *JSEN Feb. 2013 457-465*
- Dyes**
- New Potentiometric Carbon Paste Electrode for Determination of Reactive Yellow 160 Dye Concentration in Textile Wastewater. *Ghalwa, N. A.*, +, *JSEN Dec. 2013 4757-4763*
- Simultaneous Single Detector Measurement of Multiple Fluorescent Sources. *Dixit, R.*, +, *JSEN May 2013 1965-1971*
- Dynamic response**
- Flexible Sputter-Deposited Carbon Strain Sensor. *Tata, U.*, +, *JSEN Feb. 2013 444-445*
- Vision-Based Displacement Sensor for Monitoring Dynamic Response Using Robust Object Search Algorithm. *Fukuda, Y.*, +, *JSEN Dec. 2013 4725-4732*
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- Wireless Temperature Sensor for Condition Monitoring of Bearings Operating Through Thick Metal Plates. *Gupta, L. A.*, +, *JSEN June 2013 2292-2298*

E

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Low Power Wireless Sensor Network for Building Monitoring. *Torfs, T.*, +, *JSEN March 2013 909-915*

Echo

Issues in Wall Tracking With a CTFM Ultrasonic Sensor. *Antoun, S. M.*, +, *JSEN Dec. 2013 4671-4681*

Eddy current testing

Spatial and Time Patterns Extraction of Eddy Current Pulsed Thermography Using Blind Source Separation. *Bai, L.*, +, *JSEN June 2013 2094-2101*

Edge detection

Constant-Hue-Based Color Filter Array Demosaicking Sensor for Digital Still Camera Implementation. *Fan, Y.-C.*, +, *JSEN July 2013 2586-2594*

- EDF-Based Edge-Filter Interrogation Scheme for FBG Sensors. *Tiwari, U.*, +, *JSEN April 2013 1315-1319*
- Eigenvalues and eigenfunctions**
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- Elastic moduli measurement**
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- Elasticity**
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Paper-Based Flexible Taxel Device Using Electrical Contact Resistance Variation for Elasticity Measurement on Biological Objects. *Shiau, C.-C.*, +, *JSEN Oct. 2013 4038-4044*
- Elastomers**
A Soft Strain Sensor Based on Ionic and Metal Liquids. *Chossat, J.-B.*, +, *JSEN Sept. 2013 3405-3414*
Fiber Optic Bending Sensor for Water Level Monitoring: Development and Field Test: A Review. *Rosolem, J. B.*, +, *JSEN Nov. 2013 4113-4120*
Modeling and Characterization of Extensible Wearable Textile-Based Electrogoniometers. *Lorussi, F.*, +, *JSEN Jan. 2013 217-228*
Piezoelectric Vibratory-Cantilever Force Sensors and Axial Sensitivity Analysis for Individual Triaxial Tactile Sensing. *Yamashita, K.*, +, *JSEN March 2013 1074-1080*
- Electrets**
Charge Retention in a Patterned $\text{SiO}_2/\text{Si}_3\text{N}_4$ Electret. *Leonov, V.*, +, *JSEN Sept. 2013 3369-3376*
- Electric current measurement**
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Development of a Fiber-Optic Current Sensor With Range-Changing Facility Using Shunt Configuration. *Ghosh, A.*, +, *JSEN April 2013 1347-1354*
Performance Improvement of Slow-Wave Rogowski Coils for High Impulse Current Measurement. *Metwally, I. A.*, +, *JSEN Feb. 2013 538-547*
Ratio-Based Temperature-Sensing Technique Hardened Against Nanometer Process Variations. *Ituero, P.*, +, *JSEN Feb. 2013 442-443*
Stick-On Piezoelectromagnetic AC Current Monitoring of Circuit Breaker Panels. *Xu, Q. R.*, +, *JSEN March 2013 1055-1064*
- Electric field measurement**
On the Design of Video-Bandwidth Electric Field Sensing Systems Using Dielectric LiNbO_3 Electro-Optic Sensors and Optical Delays as Signal Carriers. *Gutierrez-Martinez, C.*, +, *JSEN Nov. 2013 4196-4203*
- Electric fields**
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- Electric generators**
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- Electric heating**
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- Electric impedance imaging**
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- Electric impedance measurement**
A CMOS Magnitude/Phase Measurement Chip for Impedance Spectroscopy. *Kassanos, P.*, +, *JSEN June 2013 2229-2236*
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- Electric locomotives**
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- Electric machines**
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- Electric moments**
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- Electric potential**
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- Electric properties**
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- Electric resistance**
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- Electric sensing devices**
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Dynamically Reconfigurable Hardware With a Novel Scheduling Strategy in Energy-Harvesting Sensor Networks. *Li, Y.*, +, *JSEN May 2013 2032-2038*
eCushion: A Textile Pressure Sensor Array Design and Calibration for Sitting Posture Analysis. *Xu, W.*, +, *JSEN Oct. 2013 3926-3934*
Electrolocation Sensors in Conducting Water Bio-Inspired by Electric Fish. *Servagent, N.*, +, *JSEN May 2013 1865-1882*
Frequency Response Improvement for Inertial Magnetolectric Velocity Sensor Using Frequency-Selected Compensation Network. *Chen, X.*, +, *JSEN Nov. 2013 4141-4146*
Harvesting Energy From Magnetic Fields to Power Condition Monitoring Sensors. *Roscoe, N. M.*, +, *JSEN June 2013 2263-2270*
Investigations on an Ultra-Thin Bendable Monolithic Si CMOS Image Sensor. *Dogiamis, G. C.*, +, *JSEN Oct. 2013 3892-3900*
Piezoelectric Force Response of Novel 2D Textile Based PVDF Sensors. *Krajewski, A. S.*, +, *JSEN Dec. 2013 4743-4748*
Rough-Set-Based Feature Selection and Classification for Power Quality Sensing Device Employing Correlation Techniques. *Dalai, S.*, +, *JSEN Feb. 2013 563-573*
Signal Detection for Optical AC and DC Voltage Sensors Based on Pockels Effect. *Li, H.*, +, *JSEN June 2013 2245-2252*
- Electrical conductivity**
Comparison of Acoustic Wave Sensors With Different Cut LiNbO_3 Working on Pseudo-LFE Mode. *Zhang, Z.*, +, *JSEN June 2013 2109-2114*
Physical-Based Characterization of Noise Responses in Metal-Oxide Gas Sensors. *Contaret, T.*, +, *JSEN March 2013 980-986*
- Electrical contacts**
Paper-Based Flexible Taxel Device Using Electrical Contact Resistance Variation for Elasticity Measurement on Biological Objects. *Shiau, C.-C.*, +, *JSEN Oct. 2013 4038-4044*
Theory and Design of a Novel Integrated Polarimetric Sensor Utilizing a Light Sorting Metamaterial Grating. *Mandel, I.*, +, *JSEN Feb. 2013 618-625*
- Electro-optical devices**
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On the Design of Video-Bandwidth Electric Field Sensing Systems Using Dielectric LiNbO_3 Electro-Optic Sensors and Optical Delays as Signal Carriers. *Gutierrez-Martinez, C.*, +, *JSEN Nov. 2013 4196-4203*
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- Electro-optical effects**
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- Electro-optical modulation**
Novel Optimization Algorithm to Demodulate a PZT-FBG Sensor in AC High Voltage Measurements. *de Assumpcao Ribeiro, B.*, +, *JSEN April 2013 1259-1264*
- Electrocardiography**
Empirical Mode Decomposition vs. Wavelet Decomposition for the Extraction of Respiratory Signal From Single-Channel ECG: A Comparison. *Labate, D.*, +, *JSEN July 2013 2666-2674*
Fish Heart Rate Monitoring by Body-Contact Doppler Radar. *Hafner, N.*, +, *JSEN Jan. 2013 408-414*
Multispectrum Approach in Quantitative EEG: Accuracy and Physical Effort. *Lay-Ekuakille, A.*, +, *JSEN Sept. 2013 3331-3340*

Wireless Medical-Embedded Systems: A Review of Signal-Processing Techniques for Classification. *Ghasemzadeh, H.*, +, *JSEN Feb. 2013 423-437*

Electrochemical analysis

A Wide Range Conductometric pH Sensor Made With Titanium Dioxide/Multiwall Carbon Nanotube/Cellulose Hybrid Nanocomposite. *Chen, Y.*, +, *JSEN Nov. 2013 4157-4162*

Effects of Al(III) and Nano-Al₁₃ on Aldehyde Dehydrogenase Activity on Reduced Graphene Oxide Modified Electrode. *Li, L.*, +, *JSEN Jan. 2013 314-320*

High Polarization and Low-Repulsion HfO₂ Thin Film for Alkali Metal Ion Detections by Plasma System With a Complementary Filter. *Huang, C.-H.*, +, *JSEN June 2013 2459-2465*

Electrochemical electrodes

A Miniaturized pH Sensor With an Embedded Counter Electrode and a Readout Circuit. *Veeramani, M. S.*, +, *JSEN May 2013 1941-1948*

A Robust Flexible Electrochemical Gas Sensor Using Room Temperature Ionic Liquid. *Mu, X.*, +, *JSEN Oct. 2013 3976-3981*

A Wireless Passive Sensor for Temperature Compensated Remote pH Monitoring. *Bhadra, S.*, +, *JSEN June 2013 2428-2436*

An Electromechanical System Based on Carbon Nanotube Sensors to Detect Apnea. *Liu, H.-C.*, +, *JSEN July 2013 2737-2741*

Application of Microfluidic Device for Lactic Biosensor. *Chou, J.-C.*, +, *JSEN April 2013 1363-1370*

Fish Freshness Monitoring Using an E-Tongue Based on Polypyrrole Modified Screen-Printed Electrodes. *Apetrei, I. M.*, +, *JSEN July 2013 2548-2554*

Flexible and Surface-Mountable Piezoelectric Sensor Arrays for Underwater Sensing in Marine Vehicles. *Asadnia, M.*, +, *JSEN Oct. 2013 3918-3925*

Metal-Silver Based Electrodes as Sensitive Surfaces for Electrochemical Detection of Thio-Heterocycles. *Lai-Hao, W.*, +, *JSEN Sept. 2013 3442-3448*

New Potentiometric Carbon Paste Electrode for Determination of Reactive Yellow 160 Dye Concentration in Textile Wastewater. *Ghalwa, N. A.*, +, *JSEN Dec. 2013 4757-4763*

Room Temperature Ionic Liquid/Multiwalled Carbon Nanotube/Chitosan-Modified Glassy Carbon Electrode as a Sensor for Simultaneous Determination of Ascorbic Acid, Uric Acid, Acetaminophen, and Mefenamic Acid. *Kianipour, S.*, +, *JSEN July 2013 2690-2698*

Sol-Gel Iridium Oxide-Based pH Sensor Array on Flexible Polyimide Substrate. *Nguyen, C. M.*, +, *JSEN Oct. 2013 3857-3864*

Study of Digital Dissolved Oxygen Analytical Sensor of ppb-Level. *Qi, X.*, +, *JSEN Nov. 2013 4279-4286*

Electrochemical impedance spectroscopy

Metal-Silver Based Electrodes as Sensitive Surfaces for Electrochemical Detection of Thio-Heterocycles. *Lai-Hao, W.*, +, *JSEN Sept. 2013 3442-3448*

Electrochemical sensors

A Robust Flexible Electrochemical Gas Sensor Using Room Temperature Ionic Liquid. *Mu, X.*, +, *JSEN Oct. 2013 3976-3981*

An Electromechanical System Based on Carbon Nanotube Sensors to Detect Apnea. *Liu, H.-C.*, +, *JSEN July 2013 2737-2741*

Application of Microfluidic Device for Lactic Biosensor. *Chou, J.-C.*, +, *JSEN April 2013 1363-1370*

Dynamic Calibration of Electrochemical Sensor for Accelerated Analyte Quantification. *Yang, F.*, +, *JSEN April 2013 1192-1199*

Environmental Monitoring Systems: A Review. *Kumar, A.*, +, *JSEN April 2013 1329-1339*

Metal-Silver Based Electrodes as Sensitive Surfaces for Electrochemical Detection of Thio-Heterocycles. *Lai-Hao, W.*, +, *JSEN Sept. 2013 3442-3448*

New Potentiometric Carbon Paste Electrode for Determination of Reactive Yellow 160 Dye Concentration in Textile Wastewater. *Ghalwa, N. A.*, +, *JSEN Dec. 2013 4757-4763*

Remote System for Monitoring Animal Models With Single-Metabolite Bio-Nano-Sensors. *Carrara, S.*, +, *JSEN March 2013 1018-1024*

Study of Digital Dissolved Oxygen Analytical Sensor of ppb-Level. *Qi, X.*, +, *JSEN Nov. 2013 4279-4286*

The Novel Carbon Nanomaterials Electrochemical Sensor for Determination of Trace Aluminum in Human Body Fluids With 8-Hydroxyquinoline. *Tang, Y.-Z.*, +, *JSEN Sept. 2013 3270-3275*

Electrodeposits

Metal-Silver Based Electrodes as Sensitive Surfaces for Electrochemical Detection of Thio-Heterocycles. *Lai-Hao, W.*, +, *JSEN Sept. 2013 3442-3448*

Electrodes

A Portable Sensor With Disposable Electrodes for Water Bacterial Quality Assessment. *Grossi, M.*, +, *JSEN May 2013 1775-1782*

Characterization of Low Dark-Current Lateral Amorphous-Selenium Metal-Semiconductor-Metal Photodetectors. *Abbaszadeh, S.*, +, *JSEN May 2013 1452-1458*

Corrosion Energy: A Novel Source to Power the Wireless Sensor. *Qiao, G.*, +, *JSEN April 2013 1141-1142*

Data Pattern With ECT Sensor and Its Impact on Image Reconstruction. *Yang, Y.*, +, *JSEN May 2013 1582-1593*

Designing Sensitive Wearable Capacitive Sensors for Activity Recognition. *Cheng, J.*, +, *JSEN Oct. 2013 3935-3947*

Evaluation of Electrical Capacitance Tomography Sensors for Concentric Annulus. *Ye, J.*, +, *JSEN Feb. 2013 446-456*

Multielectrode Differential Capacitive Sensors—Model Simulation With Design Application. *Huang, B.*, +, *JSEN April 2013 1371-1379*

Electrodynamics

Optimization and Microfabrication of High Performance Silicon-Based MEMS Microspeaker. *Shahosseini, I.*, +, *JSEN Jan. 2013 273-284*

Electroencephalography

An Innovative Strategy for Correctly Interpreting Simultaneous Acquisition of EEG Signals and fMRI Images. *Fabbiano, L.*, +, *JSEN Sept. 2013 3175-3181*

Efficient Signal Conditioning Techniques for Brain Activity in Remote Health Monitoring Network. *Karthik, G. V. S.*, +, *JSEN Sept. 2013 3276-3283*

Enhanced Compressibility of EEG Signal in Alzheimer's Disease Patients. *Morabito, F. C.*, +, *JSEN Sept. 2013 3255-3262*

Entropic Measures of EEG Complexity in Alzheimer's Disease Through a Multivariate Multiscale Approach. *Labate, D.*, +, *JSEN Sept. 2013 3284-3292*

Multispectrum Approach in Quantitative EEG: Accuracy and Physical Effort. *Lay-Ekuakille, A.*, +, *JSEN Sept. 2013 3331-3340*

Electrolytes

A Miniaturized pH Sensor With an Embedded Counter Electrode and a Readout Circuit. *Veeramani, M. S.*, +, *JSEN May 2013 1941-1948*

Electromagnetic devices

Behavior of Low Frequency Signal Through Stainless Steel Enclosures in Noncontact Safety Switch Application. *Farrak, M.*, +, *JSEN Jan. 2013 299-305*

Dual-Resonant Search Coil for Natural Electromagnetic Waves in the Near-Earth Environment. *Ozaki, M.*, +, *JSEN Feb. 2013 644-650*

Novel Miniature Airflow Energy Harvester for Wireless Sensing Applications in Buildings. *Zhu, D.*, +, *JSEN Feb. 2013 691-700*

Electromagnetic induction

2-D Differential Folded Vertical Hall Device Fabricated on a P-Type Substrate Using CMOS Technology. *Sung, G.-M.*, +, *JSEN June 2013 2253-2262*

Coil Optimization Method for Electromagnetic Induction Systems. *Reed, M. A.*, +, *JSEN Nov. 2013 4506-4512*

Modeling of High-Frequency Electromagnetic Effects on an Ironless Inductive Position Sensor. *Danisi, A.*, +, *JSEN Dec. 2013 4663-4670*

Electromagnetic shielding

A Flexible Multifunctional Sensor Based on Carbon Nanotube/Polyurethane Composite. *Slobodian, P.*, +, *JSEN Oct. 2013 4045-4048*

Electromagnetic wave polarization

Microwave Nondestructive Testing of Wood Anisotropy and Scatter. *Bo-gosanovic, M.*, +, *JSEN Jan. 2013 306-313*

Electromagnetic wave propagation

Dual-Resonant Search Coil for Natural Electromagnetic Waves in the Near-Earth Environment. *Ozaki, M.*, +, *JSEN Feb. 2013 644-650*

Electromagnetic wave scattering

Active Millimeter Wave Sensor for Standoff Concealed Threat Detection. *Andrews, D. A.*, +, *JSEN Dec. 2013 4948-4954*

Microwave Nondestructive Testing of Wood Anisotropy and Scatter. *Bo-gosanovic, M.*, +, *JSEN Jan. 2013 306-313*

Electromagnetic wave transmission

Behavior of Low Frequency Signal Through Stainless Steel Enclosures in Noncontact Safety Switch Application. *Farrak, M.*, +, *JSEN Jan. 2013 299-305*

Electromagnetic waves

Hazardless Biomedical Sensing Data Transmission Using VLC. *Cheong, Y.-K.*, +, *JSEN Sept. 2013 3347-3348*

Electromechanical effects

Electromechanical Energy Scavenging From Current-Carrying Conductors. *Paprotny, I.*, +, *JSEN Jan. 2013 190-201*

Electromechanical sensors

Corrections to "An electromechanical system based on carbon nanotube sensors to detect apnea" [Jul 13 2737-2741]. *Liu, H.-C.*, +, *JSEN Dec. 2013 4992*

Electromechanical systems

Corrections to "An electromechanical system based on carbon nanotube sensors to detect apnea" [Jul 13 2737-2741]. *Liu, H.-C.*, +, *JSEN Dec. 2013 4992*

Electrometers

MEMS Electrometer With Femtoampere Resolution for Aerosol Particulate Measurements. *Jaramillo, G.*, +, *JSEN Aug. 2013 2993-3000*

Electromyography

Capacitive Measurement of Facial Activity Intensity. *Rantanen, V.*, +, *JSEN Nov. 2013 4329-4338*

Surface EMG Based Hand Manipulation Identification Via Nonlinear Feature Extraction and Classification. *Ju, Z.*, +, *JSEN Sept. 2013 3302-3311*

Wireless Surface Electromyography Probes With Four High-Speed Channels. *Imperatori, G.*, +, *JSEN Aug. 2013 2954-2961*

Electron beam lithography

Droplet-Based Sensing: Optical Microresonator Sensors Embedded in Digital Electrowetting Microfluidics Systems. *Royal, M. W.*, +, *JSEN Dec. 2013 4733-4742*

Electron device noise

Selective Sensing of Individual Gases Using Graphene Devices. *Rumyantsev, S.*, +, *JSEN Aug. 2013 2818-2822*

Electronic noses

Electronic Nose System Based on Quartz Crystal Microbalance Sensor for Blood Glucose and HbA1c Levels From Exhaled Breath Odor. *Saraoglu, H. M.*, +, *JSEN Nov. 2013 4229-4235*

Game Theoretic Pattern Analysis for Identification of Odors/Gases Using Response of a Poorly Selective Sensor Array. *Kumar, R.*, +, *JSEN March 2013 1110-1116*

Improvement of Odor Approximation Using Mass Spectrometry. *Nakamoto, T.*, +, *JSEN Nov. 2013 4305-4311*

Improvement of Odor Blender Using Electroosmotic Pumps and SAW Atomizer for Low-Volatile Scents. *Ariyakul, Y.*, +, *JSEN Dec. 2013 4918-4923*

Time Horizon Selection Using Feature Feedback for the Implementation of an E-Nose System. *Jeong, G.-M.*, +, *JSEN May 2013 1575-1581*

Electronic speckle pattern interferometry

Dealing With Speckle Effects in Self-Mixing Interferometry Measurements. *Atashkhouei, R.*, +, *JSEN May 2013 1641-1647*

Electronic tongues

Electronic Tongues—A Review. *Tahara, Y.*, +, *JSEN Aug. 2013 3001-3011*

Fish Freshness Monitoring Using an E-Tongue Based on Polypyrrole Modified Screen-Printed Electrodes. *Apetrei, I. M.*, +, *JSEN July 2013 2548-2554*

Sensor Array for Water Analysis Based on Interdigitated Electrodes Modified With Fiber Films of Poly(Lactic Acid)/Multiwalled Carbon Nanotubes. *Oliveira, J. E.*, +, *JSEN Feb. 2013 759-766*

Electronics packaging

Design and Modeling of a Wide Dynamic-Range Hardness Sensor for Biological Tissue Assessment. *Zhao, S.*, +, *JSEN Dec. 2013 4613-4620*

Integration of f-MWCNT Sensor and Printed Circuits on Paper Substrate. *Xie, L.*, +, *JSEN Oct. 2013 3948-3956*

Electrophoresis

Improvement of Odor Blender Using Electroosmotic Pumps and SAW Atomizer for Low-Volatile Scents. *Ariyakul, Y.*, +, *JSEN Dec. 2013 4918-4923*

Electrospinning

Piezoelectricity of Well-Aligned Electrospun Fiber Composites. *Liu, Z.-H.*, +, *JSEN Oct. 2013 4098-4103*

Electrostatic actuators

Two-Mass MEMS Velocity Sensor: Internal Feedback Loop Design. *Alshehri, A.*, +, *JSEN March 2013 1003-1011*

Wideband Visible Wavelength Range MEMS Fabry–Perot Tunable Filter With Highly Accurate Calibration System. *Hirokubo, N.*, +, *JSEN Aug. 2013 2930-2936*

Electrostatics

MEMS Electrometer With Femtoampere Resolution for Aerosol Particulate Measurements. *Jaramillo, G.*, +, *JSEN Aug. 2013 2993-3000*

Elemental semiconductors

A Novel Closed-Loop Readout Topology for Monolithically Integrated Surface Acoustic Wave Sensors. *Rakshit, S.*, +, *JSEN Nov. 2013 4264-4270*

A Simple Low Power Electronic Readout for Rapid Bacteria Detection With Impedance Biosensor. *Samanta, N.*, +, *JSEN Dec. 2013 4716-4724*

Design and Modeling of a Wide Dynamic-Range Hardness Sensor for Biological Tissue Assessment. *Zhao, S.*, +, *JSEN Dec. 2013 4613-4620*

Flex-to-Rigid (F2R): A Generic Platform for the Fabrication and Assembly of Flexible Sensors for Minimally Invasive Instruments. *Mimoun, B.*, +, *JSEN Oct. 2013 3873-3882*

GaN-Based S₀-Wave Sensors on Silicon for Chemical and Biological Sensing in Liquid Environments. *Lu, X.*, +, *JSEN April 2013 1245-1251*

High-Efficient Chip to Wafer Self-Alignment and Bonding Applicable to MEMS-IC Flexible Integration. *Lu, J.*, +, *JSEN Feb. 2013 651-656*

Investigations on an Ultra-Thin Bendable Monolithic Si CMOS Image Sensor. *Dogiamis, G. C.*, +, *JSEN Oct. 2013 3892-3900*

Isotropically Etched Silicon Microarrays for Rapid Breast Cancer Cell Capture. *Nikkah, M.*, +, *JSEN March 2013 1125-1132*

Microfluidic Chip With Integrated a-Si:H Photodiodes for Chemiluminescence-Based Bioassays. *Caputo, D.*, +, *JSEN July 2013 2595-2602*

Nondestructive Evaluation of Diesel Spray Holes Using Piezoresistive Sensors. *Peiner, E.*, +, *JSEN Feb. 2013 701-708*

Optimization and Microfabrication of High Performance Silicon-Based MEMS Microspeaker. *Shahosseini, I.*, +, *JSEN Jan. 2013 273-284*

Post-CMOS and Post-MEMS Compatible Flexible Skin Technologies: A Review. *Xu, Y.*, +, *JSEN Oct. 2013 3962-3975*

Sensor for Thermal Gas Analysis Based on Micromachined Silicon-Microwires. *Kliche, K.*, +, *JSEN July 2013 2626-2635*

Stability of Silicon Microelectromechanical Systems Resonant Thermometers. *Ng, E. J.*, +, *JSEN March 2013 987-993*

Thermal Sensor Using Poly-Si Thin-Film Transistors With Self-Aligned and Offset Gate Structures. *Kimura, M.*, +, *JSEN May 2013 1771-1774*

Weak Adsorption-Induced Surface Stress for Streptavidin Binding to Biotin Tethered to Silicon Microcantilever Arrays. *Ness, S. J.*, +, *JSEN March 2013 959-968*

Embedded systems

A Portable Sensor With Disposable Electrodes for Water Bacterial Quality Assessment. *Grossi, M.*, +, *JSEN May 2013 1775-1782*

Gearbox Speed Sensor Design and Performance Optimization. *Manyala, J. O.*, +, *JSEN Feb. 2013 629-636*

Rough-Set-Based Feature Selection and Classification for Power Quality Sensing Device Employing Correlation Techniques. *Dalai, S.*, +, *JSEN Feb. 2013 563-573*

Emergency services

Inertial Sensor Based Indoor Localization and Monitoring System for Emergency Responders. *Zhang, R.*, +, *JSEN Feb. 2013 838-848*

EMTP

Parameters Identification and Modeling of High-Frequency Current Transducer for Partial Discharge Measurements. *Shafiq, M.*, +, *JSEN March 2013 1081-1091*

Emulsions

Sensitive Detection of Nitroaromatics With Colloidal Conjugated Polymer Nanoparticles. *Satapathi, S.*, +, *JSEN June 2013 2329-2333*

Encapsulation

Investigations on an Ultra-Thin Bendable Monolithic Si CMOS Image Sensor. *Dogiamis, G. C.*, +, *JSEN Oct. 2013 3892-3900*

Energy conservation

A Novel Sensing Nodes and Decision Node Selection Method for Energy Efficiency of Cooperative Spectrum Sensing in Cognitive Sensor Networks. *Najimi, M.*, +, *JSEN May 2013 1610-1621*

An Intelligent Hybrid MAC With Traffic-Differentiation-Based QoS for Wireless Sensor Networks. *Arifuzzaman, M.*, +, *JSEN June 2013 2391-2399*

Environmental Monitoring Systems: A Review. *Kumar, A.*, +, *JSEN April 2013 1329-1339*

QoI-Aware Energy-Efficient Participatory Crowdsourcing. *Liu, C. H.*, +, *JSEN Oct. 2013 3742-3753*

Energy consumption

Design of a Fiber-Optic Sensing Mosquito Trap. *Biswas, A. K.*, +, *JSEN Nov. 2013 4423-4431*

- Environmental Monitoring Systems: A Review. *Kumar, A.*, +, *JSEN April 2013 1329-1339*
- Tradeoff Between Throughput and Energy Consumption in Multirate Wireless Sensor Networks. *Xie, D.*, +, *JSEN Oct. 2013 3667-3676*
- Energy harvesting**
- Ambient RF Energy Harvesting Sensor Device With Capacitor-Leakage-Aware Duty Cycle Control. *Shigeta, R.*, +, *JSEN Aug. 2013 2973-2983*
- Corrosion Energy: A Novel Source to Power the Wireless Sensor. *Qiao, G.*, +, *JSEN April 2013 1141-1142*
- Different Scale Confinements of PVDF-TrFE as Functional Material of Piezoelectric Devices. *Canavese, G.*, +, *JSEN June 2013 2237-2244*
- Dynamically Reconfigurable Hardware With a Novel Scheduling Strategy in Energy-Harvesting Sensor Networks. *Li, Y.*, +, *JSEN May 2013 2032-2038*
- Electromechanical Energy Scavenging From Current-Carrying Conductors. *Paprotny, I.*, +, *JSEN Jan. 2013 190-201*
- Fast Design Space Exploration of Vibration-Based Energy Harvesting Wireless Sensors. *Kazmierski, T. J.*, +, *JSEN Nov. 2013 4393-4401*
- Harvesting Energy From Magnetic Fields to Power Condition Monitoring Sensors. *Roscoe, N. M.*, +, *JSEN June 2013 2263-2270*
- Joint Modeling of Piezoelectric Transducers and Power Conversion Circuits for Energy Harvesting Applications. *Romani, A.*, +, *JSEN March 2013 916-925*
- Low-Power Circuits and Energy Harvesting for Structural Health Monitoring of Bridges. *Wardlaw, J. L.*, +, *JSEN Feb. 2013 709-722*
- Novel Miniature Airflow Energy Harvester for Wireless Sensing Applications in Buildings. *Zhu, D.*, +, *JSEN Feb. 2013 691-700*
- Optimization of Voltage Doublers for Energy Harvesting Applications. *Roscoe, N. M.*, +, *JSEN Dec. 2013 4904-4911*
- Quality-Driven Energy-Neutralized Power and Relay Selection for Smart Grid Wireless Multimedia Sensor Based IoTs. *Yao, R.*, +, *JSEN Oct. 2013 3637-3644*
- Thermoelectric Energy Harvesting of Human Body Heat for Wearable Sensors. *Leonov, V.*, +, *JSEN June 2013 2284-2291*
- Enhanced magnetoresistance**
- Autocalibration Method for Anisotropic Magnetoresistive Sensors Using Offset Coils. *Mohamadabadi, K.*, +, *JSEN Feb. 2013 772-776*
- Entropy**
- Entropy Measures of EEG Complexity in Alzheimer's Disease Through a Multivariate Multiscale Approach. *Labate, D.*, +, *JSEN Sept. 2013 3284-3292*
- Environmental factors**
- Fiber Optic Strain Monitoring for Long-Term Evaluation of a Concrete Footbridge Under Extended Test Conditions. *Surre, F.*, +, *JSEN March 2013 1036-1043*
- Performance Evaluation of South Esk Hydrological Sensor Web: Unsupervised Machine Learning and Semantic Linked Data Approach. *Dutta, R.*, +, *JSEN Oct. 2013 3806-3815*
- Quality-Driven Energy-Neutralized Power and Relay Selection for Smart Grid Wireless Multimedia Sensor Based IoTs. *Yao, R.*, +, *JSEN Oct. 2013 3637-3644*
- Environmental monitoring (geophysics)**
- Dynamic Calibration of Electrochemical Sensor for Accelerated Analyte Quantification. *Yang, F.*, +, *JSEN April 2013 1192-1199*
- MEMS-Integrated Load Cell for Measuring Pressure, Erosion, and Deposition in Dynamic Environmental Flows. *Hobby, M. J.*, +, *JSEN Feb. 2013 492-500*
- PassFit: Participatory Sensing and Filtering for Identifying Truthful Urban Pollution Sources. *Xiang, C.*, +, *JSEN Oct. 2013 3721-3732*
- Towards the Implementation of IoT for Environmental Condition Monitoring in Homes. *Kelly, S. D. T.*, +, *JSEN Oct. 2013 3846-3853*
- Environmental science computing**
- Environmental Monitoring Systems: A Review. *Kumar, A.*, +, *JSEN April 2013 1329-1339*
- Performance Evaluation of South Esk Hydrological Sensor Web: Unsupervised Machine Learning and Semantic Linked Data Approach. *Dutta, R.*, +, *JSEN Oct. 2013 3806-3815*
- Enzymes**
- A Linear Approach to Multi-Panel Sensing in Personalized Therapy for Cancer Treatment. *Baj-Rossi, C.*, +, *JSEN Dec. 2013 4860-4865*
- Effects of Al(III) and Nano-Al₁₃ on Aldehyde Dehydrogenase Activity on Reduced Graphene Oxide Modified Electrode. *Li, L.*, +, *JSEN Jan. 2013 314-320*
- Highly Sensitive Lateral Field Excited Piezoelectric Film Acoustic Enzyme Biosensor. *Chen, D.*, +, *JSEN June 2013 2217-2222*
- Microfluidic Chip With Integrated a-Si:H Photodiodes for Chemiluminescence-Based Bioassays. *Caputo, D.*, +, *JSEN July 2013 2595-2602*
- NADH-Fluorometric Biochemical Gas Sensor (Bio-Sniffer) for Evaluation of Indoor Air Quality. *Kudo, H.*, +, *JSEN Aug. 2013 2828-2833*
- Equivalent circuits**
- Design of Highly Selective Metamaterials for Sensing Platforms. *Song, K.*, +, *JSEN Sept. 2013 3377-3385*
- Effects of the Set Phase Position on the Response of a SAW Resonator Oscillator Based Chemical Sensor. *Kshetrimayum, R.*, +, *JSEN May 2013 1662-1668*
- Model-Based Low-Noise Readout Integrated Circuit Design for Uncooled Microbolometers. *Lv, J.*, +, *JSEN April 2013 1207-1215*
- Erbium**
- A Switchable Erbium Doped Fiber Ring Laser System for Temperature Sensors Multiplexing. *Rota-Rodrigo, S.*, +, *JSEN June 2013 2279-2283*
- EDF-Based Edge-Filter Interrogation Scheme for FBG Sensors. *Tiwari, U.*, +, *JSEN April 2013 1315-1319*
- Interferometric Interrogation of the Inclination and Displacement of Tapered Fiber Mach-Zehnder Interferometers. *Chen, N.-K.*, +, *JSEN Sept. 2013 3437-3441*
- Ergonomics**
- eCushion: A Textile Pressure Sensor Array Design and Calibration for Sitting Posture Analysis. *Xu, W.*, +, *JSEN Oct. 2013 3926-3934*
- Subject-Specific Wrist Model Calibration and Application to Ergonomic Design of Exoskeletons. *Esmaeili, M.*, +, *JSEN Sept. 2013 3293-3301*
- Erosion**
- MEMS-Integrated Load Cell for Measuring Pressure, Erosion, and Deposition in Dynamic Environmental Flows. *Hobby, M. J.*, +, *JSEN Feb. 2013 492-500*
- Error statistics**
- Distributed Block Arithmetic Coding for Equiprobable Sources. *Zhou, J.*, +, *JSEN July 2013 2750-2756*
- Optimal Truncated Ordered Sequential Cooperative Spectrum Sensing in Cognitive Radio. *Nguyen-Thanh, N.*, +, *JSEN Nov. 2013 4188-4195*
- Tradeoff Between Throughput and Energy Consumption in Multirate Wireless Sensor Networks. *Xie, D.*, +, *JSEN Oct. 2013 3667-3676*
- Estimation theory**
- Geometrical Analysis of Localization Error in Stereo Vision Systems. *Fooladgar, F.*, +, *JSEN Nov. 2013 4236-4246*
- On Network Lifetime Expectancy With Realistic Sensing and Traffic Generation Model in Wireless Sensor Networks. *Chakraborty, A.*, +, *JSEN July 2013 2771-2779*
- Etching**
- A Capacitive Humidity Sensor Suitable for CMOS Integration. *Saeidi, N.*, +, *JSEN Nov. 2013 4487-4495*
- A Flexible Transparent Touch Panel Based on Ionic Liquid Channel. *Shikida, M.*, +, *JSEN Sept. 2013 3490-3495*
- Fiber-Optic Refractive Index Sensor Based on the Cone-Based Round Structure. *Jeong, H.-H.*, +, *JSEN Jan. 2013 351-358*
- Strain Transfer Analysis of Surface-Bonded MEMS Strain Sensors. *Moradi, M.*, +, *JSEN Feb. 2013 637-643*
- Tapered Plastic Optical Fiber Coated With HEC/PVDF for Measurement of Relative Humidity. *Batumalay, M.*, +, *JSEN Dec. 2013 4702-4705*
- Thermal Regeneration in Etched-Core Fiber Bragg Grating. *Yang, H.*, +, *JSEN July 2013 2581-2585*
- Evolutionary computation**
- A Bipopulation-Based Evolutionary Algorithm for Solving Full Area Coverage Problems. *Seok, J.-H.*, +, *JSEN Dec. 2013 4796-4807*
- Expectation-maximization algorithm**
- PassFit: Participatory Sensing and Filtering for Identifying Truthful Urban Pollution Sources. *Xiang, C.*, +, *JSEN Oct. 2013 3721-3732*
- Explosive detection**
- A Lateral-Field-Excited Acoustic Wave Peroxide Based Explosive Sensor. *Duy, W. S. D.*, +, *JSEN Dec. 2013 4780-4785*
- Continuous Wave Spectroscopic Terahertz Imaging With InGaAs Bow-Tie Diodes at Room Temperature. *Kasalynas, I.*, +, *JSEN Jan. 2013 50-54*
- Integrated Impactor/Detector for a High-Throughput Explosive-Trace Detection Portal. *Fulghum, M. R.*, +, *JSEN April 2013 1252-1258*
- Nitro-Aromatic Explosive Sensing Using GaN Nanowire-Titanium Nanocluster Hybrids. *Aluri, G. S.*, +, *JSEN May 2013 1883-1888*
- Portable Passive Millimeter-Wave Sensor for Detecting Concealed Weapons and Explosives Hidden on a Human Body. *Kapilevich, B.*, +, *JSEN Nov. 2013 4224-4228*

Preparation and Characteristics of Rat Anti-1,3,5-Trinitroperhydro-1,3,5-Triazine (RDX) Monoclonal Antibody and Detection of RDX Using Surface Plasmon Resonance Immunosensor. *Tanaka, Y.*, +, *JSEN Nov. 2013 4452-4458*

Pressure-Sensitive Sampling Wands for Homeland Security Applications. *Staymates, M. E.*, +, *JSEN Dec. 2013 4844-4850*

SWNT Based Nanosensors for Wireless Detection of Explosives and Chemical Warfare Agents. *Liu, Y.*, +, *JSEN Jan. 2013 202-210*

Explosives

Sensing the Thermal History of High-Explosive Detonations Using Thermoluminescent Microparticles. *Mah, M. L.*, +, *JSEN May 2013 1742-1747*

Extinction coefficients

Interferometric Interrogation of the Inclination and Displacement of Tapered Fiber Mach-Zehnder Interferometers. *Chen, N.-K.*, +, *JSEN Sept. 2013 3437-3441*

Eye

A Calibration Method for Eye-Gaze Estimation Systems Based on 3D Geometrical Optics. *Lee, H.*, +, *JSEN Sept. 2013 3219-3225*

Eye Control System Based on Ameliorated Hough Transform Algorithm. *Xiong, J.*, +, *JSEN Sept. 2013 3421-3429*

Ocular Biometric Measurements to Diagnose Neurological Disorders Due to Wilson Disease. *Morello, R.*, +, *JSEN Sept. 2013 3203-3210*

Eye protection

Self Contained Adaptable Optical Wireless Communications System for Stroke Rate During Swimming. *Hagem, R. M.*, +, *JSEN Aug. 2013 3144-3151*

F

Fabrics

A Flexible and Robust Large Scale Capacitive Tactile System for Robots. *Maiolino, P.*, +, *JSEN Oct. 2013 3910-3917*

An Embroidered Two-Dimensional Chipless Strain Sensor for Wireless Structural Deformation Monitoring. *Vena, A.*, +, *JSEN Dec. 2013 4627-4637*

Flexible Fabric Sensor Toward a Humanoid Robot's Skin: Fabrication, Characterization, and Perceptions. *Ho, V. A.*, +, *JSEN Oct. 2013 4065-4080*

Piezoelectric Force Response of Novel 2D Textile Based PVDF Sensors. *Krajewski, A. S.*, +, *JSEN Dec. 2013 4743-4748*

Stretchable Conductors Enabled by Metal Coated Polymer Spheres. *Vardoy, A.-S. B.*, +, *JSEN Oct. 2013 4049-4055*

Woven Temperature and Humidity Sensors on Flexible Plastic Substrates for E-Textile Applications. *Mattana, G.*, +, *JSEN Oct. 2013 3901-3909*

Fabry-Perot interferometers

A Hybrid Fiber Interferometer for Simultaneous Refractive Index and Temperature Measurements Based on Fabry-Perot/Michelson Interference. *Sun, H.*, +, *JSEN May 2013 2039-2044*

An Active Temperature Compensated Fiber-Optic Fabry-Perot Accelerometer System for Simultaneous Measurement of Vibration and Temperature. *Jia, P.-G.*, +, *JSEN June 2013 2334-2340*

Fabry-Perot resonators

Modern Resonator Spectroscopy at Submillimeter Wavelengths. *Parshin, V. V.*, +, *JSEN Jan. 2013 18-23*

Fading channels

DuRT: Dual RSSI Trend Based Localization for Wireless Sensor Networks. *Sahu, P. K.*, +, *JSEN Aug. 2013 3115-3123*

Power Constrained Partially Coherent Distributed Detection Over Fading Multiaccess Channels. *Xu, Z.*, +, *JSEN July 2013 2729-2736*

Failure analysis

Bendable Ultra-Thin Chips on Flexible Foils. *Dahiya, R. S.*, +, *JSEN Oct. 2013 4030-4037*

Distributed Reference-Free Fault Detection Method for Autonomous Wireless Sensor Networks. *Lo, C.*, +, *JSEN May 2013 2009-2019*

Faraday effect

Compensation for Temperature-Dependence of the Faraday Effect by Optical Activity Temperature Shift. *Mihailovic, P. M.*, +, *JSEN Feb. 2013 832-837*

Development of a Fiber-Optic Current Sensor With Range-Changing Facility Using Shunt Configuration. *Ghosh, A.*, +, *JSEN April 2013 1347-1354*

Fatigue cracks

Spatial and Time Patterns Extraction of Eddy Current Pulsed Thermography Using Blind Source Separation. *Bai, L.*, +, *JSEN June 2013 2094-2101*

Fault diagnosis

Ant-Search Strategy Based on Likelihood Trail Intensity Modification for Multiple-Fault Diagnosis in Sensor Networks. *Arpaia, P.*, +, *JSEN Jan. 2013 148-158*

Architecture Exploration for a High-Performance and Low-Power Wireless Vibration Analyzer. *Shahzad, K.*, +, *JSEN Feb. 2013 670-682*

Design and Application of Surface Wave Sensors for Nonintrusive Power Line Fault Detection. *Alam, M. N.*, +, *JSEN Jan. 2013 339-347*

Distributed Reference-Free Fault Detection Method for Autonomous Wireless Sensor Networks. *Lo, C.*, +, *JSEN May 2013 2009-2019*

Fault Node Recovery Algorithm for a Wireless Sensor Network. *Shih, H.-C.*, +, *JSEN July 2013 2683-2689*

Measurement Theory and Experimental Study of Fault-Tolerant Fully Pre-Stressed Parallel Six-Component Force Sensor. *Yao, J.*, +, *JSEN Sept. 2013 3472-3482*

Fault location

Advanced Forward Methods for Complex Wire Fault Modeling. *Lundquist, E. J.*, +, *JSEN April 2013 1172-1179*

Wire Fault Location in Coaxial Cables by Impedance Spectroscopy. *Shi, Q.*, +, *JSEN Nov. 2013 4465-4473*

Fault tolerance

Measurement Theory and Experimental Study of Fault-Tolerant Fully Pre-Stressed Parallel Six-Component Force Sensor. *Yao, J.*, +, *JSEN Sept. 2013 3472-3482*

Feature extraction

A Bio-Inspired APS for Selective Visual Attention. *Cottini, N.*, +, *JSEN Sept. 2013 3341-3342*

Architecture of Noninvasive Real Time Visual Monitoring System for Dial Type Measuring Instrument. *Jaffery, Z. A.*, +, *JSEN April 2013 1236-1244*

HMM-Based Human Fall Detection and Prediction Method Using Tri-Axial Accelerometer. *Tong, L.*, +, *JSEN May 2013 1849-1856*

Novel Wavelet-mFCM Algorithm for Environmental Sensor Drift Correction. *Dutta, R.*, +, *JSEN July 2013 2519-2520*

Portable Passive Millimeter-Wave Sensor for Detecting Concealed Weapons and Explosives Hidden on a Human Body. *Kapilevich, B.*, +, *JSEN Nov. 2013 4224-4228*

Recovered Paperboard Samples Identification by Means of Mid-Infrared Sensors. *Riba, J.-R.*, +, *JSEN July 2013 2763-2770*

Robust Classification Scheme for Airplane Targets With Low Resolution Radar Based on EMD-CLEAN Feature Extraction Method. *Du, L.*, +, *JSEN Dec. 2013 4648-4662*

Rough-Set-Based Feature Selection and Classification for Power Quality Sensing Device Employing Correlation Techniques. *Dalai, S.*, +, *JSEN Feb. 2013 563-573*

Spatial and Time Patterns Extraction of Eddy Current Pulsed Thermography Using Blind Source Separation. *Bai, L.*, +, *JSEN June 2013 2094-2101*

Surface EMG Based Hand Manipulation Identification Via Nonlinear Feature Extraction and Classification. *Ju, Z.*, +, *JSEN Sept. 2013 3302-3311*

Vision-Based Displacement Sensor for Monitoring Dynamic Response Using Robust Object Search Algorithm. *Fukuda, Y.*, +, *JSEN Dec. 2013 4725-4732*

Wireless Medical-Embedded Systems: A Review of Signal-Processing Techniques for Classification. *Ghasemzadeh, H.*, +, *JSEN Feb. 2013 423-437*

Feedback

Integration of Thin Film Strain Sensors Into Hard Drives for Active Feedback Vibration Suppression. *Felix, S.*, +, *JSEN May 2013 1708-1715*

Light-Harvesting Wireless Sensors for Indoor Lighting Control. *Pandharipande, A.*, +, *JSEN Dec. 2013 4599-4606*

Time Horizon Selection Using Feature Feedback for the Implementation of an E-Nose System. *Jeong, G.-M.*, +, *JSEN May 2013 1575-1581*

Two-Mass MEMS Velocity Sensor: Internal Feedback Loop Design. *Alshehri, A.*, +, *JSEN March 2013 1003-1011*

Ferromagnetic materials

Non-Intrusive Piston Position Measurement System Using Magnetic Field Measurements. *Taghvaeeyan, S.*, +, *JSEN Aug. 2013 3106-3114*

FETs

Subharmonic Mixing With Field-Effect Transistors: Theory and Experiment at 639 GHz High Above f_T . *Lisauskas, A.*, +, *JSEN Jan. 2013 124-132*

Fiber lasers

A Switchable Erbium Doped Fiber Ring Laser System for Temperature Sensors Multiplexing. *Rota-Rodrigo, S.*, +, *JSEN June 2013 2279-2283*

Dual-Channel Self-Mixing Vibration Measurement System in a Linear Cavity Fiber Laser. *Lu, L.*, +, *JSEN Nov. 2013 4387-4392*

- Remotely-Interrogated Three-Axis Fiber Laser Magnetometer. *Cranch, G. A.*, +, *JSEN March 2013 890-899*
- Fiber optic gyroscopes**
- Autonomous Detection of Angle Random Walk and Quantization Noise of Fiber Optic Gyro in Attitude Determination System of Satellite. *Yuan, R.*, +, *JSEN Jan. 2013 211-216*
- Fiber optic sensors**
- A Fiber Bragg Grating RMS Current Transducer Based on the Magnetostriction Effect Using a Terfenol-D Toroidal-Shaped Modulator. *Cremonezi, A. O.*, +, *JSEN Feb. 2013 683-690*
- A Highly Sensitive and Low-Cost Sagnac Loop Based Pressure Sensor. *Cho, L.-H.*, +, *JSEN Aug. 2013 3073-3078*
- A Hollow Core Fiber-Based Intermodal Interferometer for Measurement of Strain and Temperature. *Qi, F.*, +, *JSEN Sept. 2013 3468-3471*
- A Hybrid Fiber Interferometer for Simultaneous Refractive Index and Temperature Measurements Based on Fabry–Perot/Michelson Interference. *Sun, H.*, +, *JSEN May 2013 2039-2044*
- A Mote Interface for Fiber Optic Spectral Sensing With Real-Time Monitoring of the Marine Environment. *O’Connell, E.*, +, *JSEN July 2013 2619-2625*
- A Polyaniline-Coated Integrated Microfiber Resonator for UV Detection. *Lim, K.-S.*, +, *JSEN May 2013 2020-2025*
- A Switchable Erbium Doped Fiber Ring Laser System for Temperature Sensors Multiplexing. *Rota-Rodrigo, S.*, +, *JSEN June 2013 2279-2283*
- Acceleration of Measurements in BOTDA Sensors Using Adaptive Linear Prediction. *Farahani, M. A.*, +, *JSEN Jan. 2013 263-272*
- All Fiber-Optic Sensor for Monitoring Pressure Fluctuations in ON/OFF State. *Nath, P.*, +, *JSEN April 2013 1148-1152*
- All-Fiber Modal Interferometer Based on a Joint-Taper-Joint Fiber Structure for Refractive Index Sensing With High Sensitivity. *Chen, J.*, +, *JSEN July 2013 2780-2785*
- All-Fiber Optic Humidity Sensor Based on Photonic Bandgap Fiber and Digital WMS Detection. *Noor, M. Y. M.*, +, *JSEN May 2013 1817-1823*
- All-Metal Optical Fiber Accelerometer With Low Transverse Sensitivity for Seismic Monitoring. *Jiang, D.*, +, *JSEN Nov. 2013 4556-4560*
- An In-Fiber Mach–Zehnder Interferometer Based on Arc-Induced Tapers for High Sensitivity Humidity Sensing. *Shao, M.*, +, *JSEN May 2013 2026-2031*
- An Optically-Interrogated Rogowski Coil for Passive, Multiplexable Current Measurement. *Orr, P.*, +, *JSEN June 2013 2053-2054*
- Analysis and Back-Analysis for Temperature Field of Concrete Arch Dam During Construction Period Based on Temperature Data Measured by DTS. *Su, H.*, +, *JSEN May 2013 1403-1412*
- Analysis of Polyimide-Coated Optical Fiber Long-Period Grating-Based Relative Humidity Sensor. *Alwis, L.*, +, *JSEN Feb. 2013 767-771*
- Analysis of the Characteristics of PVA-Coated LPG-Based Sensors to Coating Thickness and Changes in the External Refractive Index. *Alwis, L.*, +, *JSEN March 2013 1117-1124*
- Application of a Fiber Bragg Grating-Based Sensing System on Investigating Dynamic Behaviors of a Cantilever Beam Under Impact or Moving Mass Loadings. *Chuang, K.-C.*, +, *JSEN Jan. 2013 389-399*
- Characteristics of an Optical Fiber Hydrogen Gas Sensor Based on a Palladium and Yttrium Alloy Thin Film. *Liu, Y.*, +, *JSEN July 2013 2699-2704*
- Commissioning and Evaluation of a Fiber-Optic Sensor System for Bridge Monitoring. *Scott, R. H.*, +, *JSEN July 2013 2555-2562*
- Compact Fiber Sensor With High Spatial Resolution for Simultaneous Strain and Temperature Measurement. *Cao, Z.*, +, *JSEN May 2013 1447-1451*
- Comparative Study of Microfiber and Side-Polished Optical Fiber Sensors for Refractometry in Microfluidics. *Dudus, A.*, +, *JSEN May 2013 1594-1601*
- Compensation for Temperature-Dependence of the Faraday Effect by Optical Activity Temperature Shift. *Mihailovic, P. M.*, +, *JSEN Feb. 2013 832-837*
- Considerations for Lossy-Mode Resonance-Based Optical Fiber Sensor. *Sanchez, P.*, +, *JSEN April 2013 1167-1171*
- Design Evaluation of a High Birefringence Single Mode Optical Fiber-Based Sensor for Lateral Pressure Monitoring Applications. *Karimi, M.*, +, *JSEN Nov. 2013 4459-4464*
- Design of a Fiber-Optic Sensing Mosquito Trap. *Biswas, A. K.*, +, *JSEN Nov. 2013 4423-4431*
- Detection of Fuel Adulteration With High Sensitivity Using Turnaround Point Long Period Fiber Gratings in B/Ge Doped Fibers. *Kher, S.*, +, *JSEN Nov. 2013 4482-4486*
- Development of a Fiber-Optic Current Sensor With Range-Changing Facility Using Shunt Configuration. *Ghosh, A.*, +, *JSEN April 2013 1347-1354*
- Dual-Channel Self-Mixing Vibration Measurement System in a Linear Cavity Fiber Laser. *Lu, L.*, +, *JSEN Nov. 2013 4387-4392*
- EDF-Based Edge-Filter Interrogation Scheme for FBG Sensors. *Tiwari, U.*, +, *JSEN April 2013 1315-1319*
- Effects of Polymer Coatings on Temperature Sensitivity of Brillouin Frequency Shift Within Double-Coated Fibers. *Gu, H.*, +, *JSEN Feb. 2013 864-869*
- Embedded Fiber Optic Sensors Within Additive Layer Manufactured Components. *Maier, R. R. J.*, +, *JSEN March 2013 969-979*
- Enhanced Refractometer Based on Periodically Tapered Small Core Single-mode Fiber. *Wang, P.*, +, *JSEN Jan. 2013 180-185*
- Fiber Bragg Grating Strain Sensor Incorporated to Monitor Patient Vital Signs During MRI. *Dziuda, L.*, +, *JSEN Dec. 2013 4986-4991*
- Fiber Optic Bending Sensor for Water Level Monitoring: Development and Field Test: A Review. *Rosolem, J. B.*, +, *JSEN Nov. 2013 4113-4120*
- Fiber Optic Displacement Sensor Using Multimode Plastic Fiber Probe and Tooth Surface. *Rahman, H. A.*, +, *JSEN Jan. 2013 294-298*
- Fiber Optic Hybrid Device for Simultaneous Measurement of Humidity and Temperature. *Mathew, J.*, +, *JSEN May 2013 1632-1636*
- Fiber Optic Strain Monitoring for Long-Term Evaluation of a Concrete Foot-bridge Under Extended Test Conditions. *Surre, F.*, +, *JSEN March 2013 1036-1043*
- Fiber-Optic Refractive Index Sensor Based on the Cone-Based Round Structure. *Jeong, H.-H.*, +, *JSEN Jan. 2013 351-358*
- Fiber-Optic Volumetric Sensor Based on Beer-Lambert Principle. *Husain, I.*, +, *JSEN Sept. 2013 3345-3346*
- High Sensitivity Force and Pressure Measurements Using Etched Single-mode Polymer Fiber Bragg Gratings. *Rajan, G.*, +, *JSEN May 2013 1794-1800*
- Highly Sensitive Curvature Sensor Using an In-Fiber Mach–Zehnder Interferometer. *Wang, R.*, +, *JSEN May 2013 1766-1770*
- Humidity Sensor With a PVA-Coated Photonic Crystal Fiber Interferometer. *Li, T.*, +, *JSEN June 2013 2214-2216*
- Induction Brazing of Type-I Fiber Bragg Gratings Into Kovar Ferrules Exploiting Curie Transition. *Perry, M.*, +, *JSEN Feb. 2013 816-823*
- Inline Microfiber Mach–Zehnder Interferometer for High Temperature Sensing. *Jasim, A. A.*, +, *JSEN Feb. 2013 626-628*
- Intensity-Encoded Polymer Optical Fiber Accelerometer. *Antunes, P. F. C.*, +, *JSEN May 2013 1716-1720*
- Interferometric Interrogation of the Inclination and Displacement of Tapered Fiber Mach-Zehnder Interferometers. *Chen, N.-K.*, +, *JSEN Sept. 2013 3437-3441*
- Liquid Refractive Index Sensor Based on a Polarization-Maintaining Fiber Loop Mirror. *Wang, J.*, +, *JSEN May 2013 1721-1724*
- Long Period Fiber Grating Humidity Sensor With Gelatin/Cobalt Chloride Coating. *Nidhi, N.*, +, *JSEN Nov. 2013 4139-4140*
- Micro-Ball Lensed Fiber-Based Glucose Sensor. *Harun, S. W.*, +, *JSEN Jan. 2013 348-350*
- NADH-Fluorometric Biochemical Gas Sensor (Bio-Sniffer) for Evaluation of Indoor Air Quality. *Kudo, H.*, +, *JSEN Aug. 2013 2828-2833*
- Novel Optimization Algorithm to Demodulate a PZT-FBG Sensor in AC High Voltage Measurements. *de Assumpcao Ribeiro, B.*, +, *JSEN April 2013 1259-1264*
- Novel Type of Temperature Self-Compensating Acceleration Transducer Based on OFBG. *Wang, C.*, +, *JSEN Aug. 2013 3012-3013*
- Performance of a New Bundle Fiber Sensor of 1000 RF in Comparison With 16 RF Probe. *Abdullah, M.*, +, *JSEN Nov. 2013 4522-4526*
- Pressure Sensitization of Brillouin Frequency Shift in Optical Fibers With Double-Layer Polymer Coatings. *Zhang, G.*, +, *JSEN June 2013 2437-2441*
- Reflective Fiber-Optic Refractometer Based on a Compact Hi-Bi Fiber Tip. *Rong, Q.*, +, *JSEN May 2013 1473-1477*
- Reflective Refractometer Based on a Thin-Core Fiber Tailored Multimode Fiber Bragg Grating. *Rong, Q.*, +, *JSEN Nov. 2013 4356-4360*
- Simple Fiber-Optic Refractive Index Sensor Based On Fresnel Reflection and Optical Switch. *Xu, W.*, +, *JSEN May 2013 1571-1574*
- Single-Mode-Multimode Fiber Structure Based Sensor for Simultaneous Measurement of Refractive Index and Temperature. *Xue, H.*, +, *JSEN Nov. 2013 4220-4223*
- Soft Fiber Optic Sensors for Precision Measurement of Shear Stress and Pressure. *Zhang, Z. F.*, +, *JSEN May 2013 1478-1482*
- Spatial Resolution Improvement of Distributed Raman Temperature Measurement System. *Wang, Z. L.*, +, *JSEN Nov. 2013 4271-4278*

- Tapered Plastic Optical Fiber Coated With HEC/PVDF for Measurement of Relative Humidity. *Batumalay, M.*, +, *JSEN Dec. 2013 4702-4705*
- Thermal Regeneration in Etched-Core Fiber Bragg Grating. *Yang, H.*, +, *JSEN July 2013 2581-2585*
- Use of Tapered Optical Fiber Sensors in Study of the Hydration Process of Cement Paste. *Luo, D.*, +, *JSEN Sept. 2013 3415-3420*
- Wheel Flat Detection in High-Speed Railway Systems Using Fiber Bragg Gratings. *Filigrano, M. L.*, +, *JSEN Dec. 2013 4808-4816*
- Field effect transistors**
- Hydrogen-Sensing Properties of a Pd/AlGaIn/GaN-Based Field-Effect Transistor Under a Nitrogen Ambience. *Hsu, C.-S.*, +, *JSEN May 2013 1787-1793*
- THz SPICE for Modeling Detectors and Nonquadratic Response at Large Input Signal. *Gutin, A.*, +, *JSEN Jan. 2013 55-62*
- Field emission ion microscopy**
- Selective Capacitive Sensor for Ammonia Hydroxide at Room Temperature. *Das, A.*, +, *JSEN July 2013 2757-2762*
- Field programmable gate arrays**
- A CMOS Sensor for Measurement of Cerebral Optical Coefficients Using Non-Invasive Frequency Domain Near Infrared Spectroscopy. *Sthalekar, C. C.*, +, *JSEN Sept. 2013 3166-3174*
- An Integrated High-Precision Probe System in 0.18- μm CMOS for Near-Field Magnetic Measurements on Cryptographic LSIs. *Mai-Khanh, N. N.*, +, *JSEN July 2013 2675-2682*
- Arrow-Pointer Sensor Design for Low-Cost Water Meter. *Hsia, S.-C.*, +, *JSEN April 2013 1281-1287*
- Parallel-Data Reconstruction for Limited Views Tomography Sensors by Sinusoidal Hough Transform. *Cantoral-Ceballos, J. A.*, +, *JSEN Feb. 2013 581-588*
- File servers**
- Online Monitoring of Geological CO₂ Storage and Leakage Based on Wireless Sensor Networks. *Yang, H.*, +, *JSEN Feb. 2013 556-562*
- Filled polymers**
- A Magnetic Membrane Actuator in Composite Technology Utilizing Diamagnetic Levitation. *Hilber, W.*, +, *JSEN July 2013 2786-2791*
- Ion Sensor for the Quantification of Sodium in Sweat Samples. *Wujcik, E. K.*, +, *JSEN Sept. 2013 3430-3436*
- Polypropylene-Carbon Nanofiber Composites as Strain-Gauge Sensor. *Rocha, J. G.*, +, *JSEN July 2013 2603-2609*
- Tapered Plastic Optical Fiber Coated With HEC/PVDF for Measurement of Relative Humidity. *Batumalay, M.*, +, *JSEN Dec. 2013 4702-4705*
- Filtering theory**
- Discrete-Time H_{∞} Filtering for Mobile Robot Localization Using Wireless Sensor Network. *Hur, H.*, +, *JSEN Jan. 2013 245-252*
- New Image Quality Assessment Algorithms for CFA Demosaicing. *Maschal, R. A.*, +, *JSEN Jan. 2013 371-378*
- Sensor Fusion and Target Tracking Using Evidential Data Association. *Dallil, A.*, +, *JSEN Jan. 2013 285-293*
- Filtration**
- High Polarization and Low-Repulsion HfO₂ Thin Film for Alkali Metal Ion Detections by Plasma System With a Complementary Filter. *Huang, C.-H.*, +, *JSEN June 2013 2459-2465*
- Fine structure**
- High Sensitivity, Miniature, Full 2-D Anemometer Based on MEMS Hot-Film Sensors. *Liu, H.-B.*, +, *JSEN May 2013 1914-1920*
- Finite difference methods**
- Advanced Forward Methods for Complex Wire Fault Modeling. *Lundquist, E. J.*, +, *JSEN April 2013 1172-1179*
- Optimization of the Local Evanescent Array-Coupled Optoelectronic Sensing Chip for Enhanced, Portable, Real-Time Sensing. *Erickson, T. A.*, +, *JSEN May 2013 1905-1913*
- Finite difference time-domain analysis**
- Characterizing the Sensitivity of UHF Partial Discharge Sensors Using FDTD Modeling. *Ishak, A. M.*, +, *JSEN Aug. 2013 3025-3031*
- Detection of SiO₂ Thin Layer by Using a Metallic Mesh Sensor. *Suzuki, T.*, +, *JSEN Dec. 2013 4972-4976*
- High-Sensitive Double-Hole Defect Refractive Index Sensor Based on 2-D Photonic Crystal. *Shiramin, L. A.*, +, *JSEN May 2013 1483-1486*
- Sensitivity of Asymmetrically Necked Planar Millimeter-Wave Detectors. *Kancleris, Z.*, +, *JSEN April 2013 1143-1147*
- Wire Fault Location in Coaxial Cables by Impedance Spectroscopy. *Shi, Q.*, +, *JSEN Nov. 2013 4465-4473*
- Finite element analysis**
- A Capacitive Humidity Sensor Suitable for CMOS Integration. *Saeidi, N.*, +, *JSEN Nov. 2013 4487-4495*
- A CMOS-MEMS Resonator Integrated System for Oscillator Application. *Pachkawade, V.*, +, *JSEN Aug. 2013 2882-2889*
- A Microwave Resonant Sensor for Concentration Measurements of Liquid Solutions. *Gemarelli, G.*, +, *JSEN May 2013 1857-1864*
- All-Metal Optical Fiber Accelerometer With Low Transverse Sensitivity for Seismic Monitoring. *Jiang, D.*, +, *JSEN Nov. 2013 4556-4560*
- Analysis and Back-Analysis for Temperature Field of Concrete Arch Dam During Construction Period Based on Temperature Data Measured by DTS. *Su, H.*, +, *JSEN May 2013 1403-1412*
- Application of a Fiber Bragg Grating-Based Sensing System on Investigating Dynamic Behaviors of a Cantilever Beam Under Impact or Moving Mass Loadings. *Chuang, K.-C.*, +, *JSEN Jan. 2013 389-399*
- CMOS Sensor Arrays for High Resolution Die Stress Mapping in Packaged Integrated Circuits. *Chen, Y.*, +, *JSEN June 2013 2066-2076*
- Designing Sensitive Wearable Capacitive Sensors for Activity Recognition. *Cheng, J.*, +, *JSEN Oct. 2013 3935-3947*
- Evaluation of Electrical Capacitance Tomography Sensors for Concentric Annulus. *Ye, J.*, +, *JSEN Feb. 2013 446-456*
- Gearbox Speed Sensor Design and Performance Optimization. *Manyala, J. O.*, +, *JSEN Feb. 2013 629-636*
- Induction Brazing of Type-I Fiber Bragg Gratings Into Kovar Ferrules Exploiting Curie Transition. *Perry, M.*, +, *JSEN Feb. 2013 816-823*
- Influence of Semiconductor/Metal Interface Geometry in an EMR Sensor. *Sun, J.*, +, *JSEN Feb. 2013 664-669*
- Operation-State Monitoring and Energization-Status Identification for Underground Power Cables by Magnetic Field Sensing. *Sun, X.*, +, *JSEN Nov. 2013 4527-4533*
- Packageless AlN/ZnO/Si Structure for SAW Devices Applications. *Legrani, O.*, +, *JSEN Feb. 2013 487-491*
- PDMS Microcantilever-Based Flow Sensor Integration for Lab-on-a-Chip. *Nezhad, A. S.*, +, *JSEN Feb. 2013 601-609*
- Soft Fiber Optic Sensors for Precision Measurement of Shear Stress and Pressure. *Zhang, Z. F.*, +, *JSEN May 2013 1478-1482*
- Strain Transfer Analysis of Surface-Bonded MEMS Strain Sensors. *Moradi, M.*, +, *JSEN Feb. 2013 637-643*
- W-Shaped Cantilevers for Scanning Force Microscopy. *Le Rouzic, J.*, +, *JSEN April 2013 1340-1346*
- Finite state machines**
- A Novel Closed-Loop Readout Topology for Monolithically Integrated Surface Acoustic Wave Sensors. *Rakshit, S.*, +, *JSEN Nov. 2013 4264-4270*
- Fixed point arithmetic**
- A Low-Power Directional Gamma-Ray Sensor System for Long-Term Radiation Monitoring. *Schrage, C.*, +, *JSEN July 2013 2610-2618*
- Flames**
- Inline Microfiber Mach-Zehnder Interferometer for High Temperature Sensing. *Jasim, A. A.*, +, *JSEN Feb. 2013 626-628*
- Flexible displays**
- Bendable Ultra-Thin Chips on Flexible Foils. *Dahiya, R. S.*, +, *JSEN Oct. 2013 4030-4037*
- Flexible electronics**
- Characteristics of Flexible Thin-Film Transistors With ZnO Channels. *Ji, L.-W.*, +, *JSEN Dec. 2013 4940-4943*
- Guest Editorial: Special issue on flexible sensors and sensing systems. *Celik-Buller, Z.*, +, *JSEN Oct. 2013 3854-3856*
- Organic Bendable and Stretchable Field Effect Devices for Sensing Applications. *Loi, A.*, +, *JSEN Dec. 2013 4764-4772*
- Piezoelectric Force Response of Novel 2D Textile Based PVDF Sensors. *Krajewski, A. S.*, +, *JSEN Dec. 2013 4743-4748*
- Post-CMOS and Post-MEMS Compatible Flexible Skin Technologies: A Review. *Xu, Y.*, +, *JSEN Oct. 2013 3962-3975*
- Stretchable Conductors Enabled by Metal Coated Polymer Spheres. *Vardoy, A.-S. B.*, +, *JSEN Oct. 2013 4049-4055*
- Flicker noise**
- A 768-Channel CMOS Microelectrode Array With Angle Sensitive Pixels for Neuronal Recording. *Johnson, B.*, +, *JSEN Sept. 2013 3211-3218*
- Floors**
- High-Resolution Touch Floor System Using Particle Swarm Optimization Neural Network. *Kim, H.*, +, *JSEN June 2013 2084-2093*

Flow measurement

MEMS-Integrated Load Cell for Measuring Pressure, Erosion, and Deposition in Dynamic Environmental Flows. *Hobby, M. J.*, +, *JSEN Feb. 2013 492-500*

PDMS Microcantilever-Based Flow Sensor Integration for Lab-on-a-Chip. *Nezhad, A. S.*, +, *JSEN Feb. 2013 601-609*

Three-Dimensional Flexible Thermal Sensor for Intravascular Flow Monitoring. *Tang, R.*, +, *JSEN Oct. 2013 3991-3998*

Flow sensors

2-D Thermal Velocity Sensor for Submersible Navigation and Minute Flow Measurements. *Palmer, K.*, +, *JSEN Jan. 2013 359-370*

A CMOS MEMS Capacitive Flow Sensor for Respiratory Monitoring. *Liao, S.-H.*, +, *JSEN May 2013 1401-1402*

A Microwave Resonant Sensor for Concentration Measurements of Liquid Solutions. *Gennarelli, G.*, +, *JSEN May 2013 1857-1864*

A Novel Flexible Thermoelectric Sensor for Intravascular Flow Assessment. *van der Horst, A.*, +, *JSEN Oct. 2013 3883-3891*

An Electromechanical System Based on Carbon Nanotube Sensors to Detect Apnea. *Liu, H.-C.*, +, *JSEN July 2013 2737-2741*

Flex-to-Rigid (F2R): A Generic Platform for the Fabrication and Assembly of Flexible Sensors for Minimally Invasive Instruments. *Mimoun, B.*, +, *JSEN Oct. 2013 3873-3882*

Flexible and Surface-Mountable Piezoelectric Sensor Arrays for Underwater Sensing in Marine Vehicles. *Asadnia, M.*, +, *JSEN Oct. 2013 3918-3925*

MEMS-Integrated Load Cell for Measuring Pressure, Erosion, and Deposition in Dynamic Environmental Flows. *Hobby, M. J.*, +, *JSEN Feb. 2013 492-500*

Multiple Surface-Based Biosensors for Enhanced Molecular Detection in Fluid Flow Systems. *Abolfath-Beygi, M.*, +, *JSEN April 2013 1265-1273*

PDMS Microcantilever-Based Flow Sensor Integration for Lab-on-a-Chip. *Nezhad, A. S.*, +, *JSEN Feb. 2013 601-609*

Three-Dimensional Flexible Thermal Sensor for Intravascular Flow Monitoring. *Tang, R.*, +, *JSEN Oct. 2013 3991-3998*

Flowmeters

Experimental Study and Implementation of a Novel Digital Closed-Loop Control System for Coriolis Mass Flowmeter. *Hu, C.*, +, *JSEN Aug. 2013 3032-3038*

PDMS Microcantilever-Based Flow Sensor Integration for Lab-on-a-Chip. *Nezhad, A. S.*, +, *JSEN Feb. 2013 601-609*

Fluidic devices

Stability Characterization of High-Sensitivity Silicon-Based EUV Photodiodes in a Detrimental Environment. *Shi, L.*, +, *JSEN May 2013 1699-1707*

Fluorescence

Differentiation Between Analyte Adsorption and Homogenous Index Sensing in WGM Biodetection. *Charlebois, M.*, +, *JSEN Jan. 2013 229-233*

Effects of Al(III) and Nano-Al₁₃ on Aldehyde Dehydrogenase Activity on Reduced Graphene Oxide Modified Electrode. *Li, L.*, +, *JSEN Jan. 2013 314-320*

Emanation of Hydroxyl Radicals From Human Skin. *Che, D.-C.*, +, *JSEN April 2013 1223-1227*

On-Chip Light Modulation Applying Optofluidic Principles. *Weber, E.*, +, *JSEN Dec. 2013 4773-4779*

Fluorine

High Polarization and Low-Repulsion HfO₂ Thin Film for Alkali Metal Ion Detections by Plasma System With a Complementary Filter. *Huang, C.-H.*, +, *JSEN June 2013 2459-2465*

FM radar

A Deramping-Based Multiband Radar Sensor Concept With Enhanced ISAR Capabilities. *Munoz-Ferreras, J.-M.*, +, *JSEN Sept. 2013 3361-3368*

W-Band Chirp Radar Mock-Up Using a Glow Discharge Detector. *Rozban, D.*, +, *JSEN Jan. 2013 139-145*

Focal planes

Distance Measurement Utilizing Image-Based Triangulation. *Liebe, C. C.*, +, *JSEN Jan. 2013 234-244*

Model-Based Low-Noise Readout Integrated Circuit Design for Uncooled Microbolometers. *Lv, J.*, +, *JSEN April 2013 1207-1215*

Theory and Design of a Novel Integrated Polarimetric Sensor Utilizing a Light Sorting Metamaterial Grating. *Mandel, I.*, +, *JSEN Feb. 2013 618-625*

Focused ion beam technology

An Integrated High-Precision Probe System in 0.18- μm CMOS for Near-Field Magnetic Measurements on Cryptographic LSIs. *Mai-Khanh, N. N.*, +, *JSEN July 2013 2675-2682*

Food technology

Recovered Paperboard Samples Identification by Means of Mid-Infrared Sensors. *Riba, J.-R.*, +, *JSEN July 2013 2763-2770*

Footwear

High-Performance Interface Electronic System for a 13 \times 13 Flexible Biomechanical Ground Reaction Sensor Array Achieving a Gait Ground Velocity Resolution of 100 $\mu\text{m}/\text{sec}$. *Guo, Q.*, +, *JSEN Nov. 2013 4496-4505*

Force feedback

Analysis of an MRI Compatible Force Sensor for Sensitivity and Precision. *Turkseven, M.*, +, *JSEN Feb. 2013 476-486*

High-Performance Closed-Loop Interface Circuit for High-Q Capacitive Microaccelerometers. *Ye, Z.*, +, *JSEN May 2013 1425-1433*

Force measurement

Development of a Flexible 3-D Tactile Sensor System for Anthropomorphic Artificial Hand. *Zhang, T.*, +, *JSEN Feb. 2013 510-518*

Embedded Flexible Force Sensor for In-Situ Tire-Road Interaction Measurements. *Zhang, Y.*, +, *JSEN May 2013 1756-1765*

Force Sensor Design and Measurement for Endodontic Therapy. *Tsao, C.-C.*, +, *JSEN July 2013 2636-2642*

High Sensitivity Force and Pressure Measurements Using Etched Single-mode Polymer Fiber Bragg Gratings. *Rajan, G.*, +, *JSEN May 2013 1794-1800*

High-Performance Interface Electronic System for a 13 \times 13 Flexible Biomechanical Ground Reaction Sensor Array Achieving a Gait Ground Velocity Resolution of 100 $\mu\text{m}/\text{sec}$. *Guo, Q.*, +, *JSEN Nov. 2013 4496-4505*

Measurement of Tension in a String Using an Array of Capacitive Force Sensors. *Singal, K.*, +, *JSEN Feb. 2013 792-800*

Measurement Theory and Experimental Study of Fault-Tolerant Fully Pre-Stressed Parallel Six-Component Force Sensor. *Yao, J.*, +, *JSEN Sept. 2013 3472-3482*

Microsystem for Real Time High Resolution Measurement of Cell Forces. *Swierczewski, R.*, +, *JSEN May 2013 1602-1609*

Force sensors

A Flexible Transparent Touch Panel Based on Ionic Liquid Channel. *Shikida, M.*, +, *JSEN Sept. 2013 3490-3495*

Analysis of an MRI Compatible Force Sensor for Sensitivity and Precision. *Turkseven, M.*, +, *JSEN Feb. 2013 476-486*

Area-Efficient Three Axis MEMS Lorentz Force Magnetometer. *Rouf, V. T.*, +, *JSEN Nov. 2013 4474-4481*

Design and Characterization of a Soft Multi-Axis Force Sensor Using Embedded Microfluidic Channels. *Vogt, D. M.*, +, *JSEN Oct. 2013 4056-4064*

Design Evaluation of a High Birefringence Single Mode Optical Fiber-Based Sensor for Lateral Pressure Monitoring Applications. *Karimi, M.*, +, *JSEN Nov. 2013 4459-4464*

Effects of Wavelength and Optical Path Length in Design of Fingernail Touch Force Sensing. *Abu-Khalaf, J. M.*, +, *JSEN Feb. 2013 807-815*

Embedded Flexible Force Sensor for In-Situ Tire-Road Interaction Measurements. *Zhang, Y.*, +, *JSEN May 2013 1756-1765*

Force Sensor Design and Measurement for Endodontic Therapy. *Tsao, C.-C.*, +, *JSEN July 2013 2636-2642*

High Sensitivity Force and Pressure Measurements Using Etched Single-mode Polymer Fiber Bragg Gratings. *Rajan, G.*, +, *JSEN May 2013 1794-1800*

High-Resolution Touch Floor System Using Particle Swarm Optimization Neural Network. *Kim, H.*, +, *JSEN June 2013 2084-2093*

Integrated Long-Range Thermal Bimorph Actuators for Parallelizable Bio-AFM Applications. *Henriksson, J.*, +, *JSEN Aug. 2013 2849-2856*

Measurement of Tension in a String Using an Array of Capacitive Force Sensors. *Singal, K.*, +, *JSEN Feb. 2013 792-800*

Measurement Theory and Experimental Study of Fault-Tolerant Fully Pre-Stressed Parallel Six-Component Force Sensor. *Yao, J.*, +, *JSEN Sept. 2013 3472-3482*

MEMS Force Sensor in a Flexible Substrate Using Nichrome Piezoresistors. *Ahmed, M.*, +, *JSEN Oct. 2013 4081-4089*

Novel Online Re-Calibration Method for Multi-Axis Force/Torque Sensor of ITER Welding/Machining Robot. *Roobahani, H.*, +, *JSEN Nov. 2013 4432-4443*

- Piezoelectric Vibratory-Cantilever Force Sensors and Axial Sensitivity Analysis for Individual Triaxial Tactile Sensing. *Yamashita, K.*, +, *JSEN March 2013 1074-1080*
- Pressure-Sensitive Sampling Wands for Homeland Security Applications. *Staymates, M. E.*, +, *JSEN Dec. 2013 4844-4850*
- Fourier analysis**
- Effects of Mass Layer Stiffness and Imperfect Bonding on a Quartz Crystal Microbalance. *Li, X.*, +, *JSEN Feb. 2013 574-580*
- Fourier transform spectra**
- Recovered Paperboard Samples Identification by Means of Mid-Infrared Sensors. *Riba, J.-R.*, +, *JSEN July 2013 2763-2770*
- Room Temperature Methane Sensor Based on Graphene Nanosheets/ Polyaniline Nanocomposite Thin Film. *Wu, Z.*, +, *JSEN Feb. 2013 777-782*
- Fracture**
- Bendable Ultra-Thin Chips on Flexible Foils. *Dahiya, R. S.*, +, *JSEN Oct. 2013 4030-4037*
- Detecting Mechanoluminescence From ZnS:Mn Powder Using a High Speed Camera. *Kobakhidze, L.*, +, *JSEN Aug. 2013 3053-3059*
- Fiber Optic Strain Monitoring for Long-Term Evaluation of a Concrete Foot-bridge Under Extended Test Conditions. *Surre, F.*, +, *JSEN March 2013 1036-1043*
- Frequency converters**
- Ratiometric Voltage-to-Frequency Converter for Long-Life Autonomous Portable Equipment. *Azcona, C.*, +, *JSEN June 2013 2382-2390*
- Frequency measurement**
- Contactless Liquid-Level Measurement With Frequency-Modulated Mil-limeter Wave Through Opaque Container. *Nakagawa, T.*, +, *JSEN March 2013 926-933*
- Frequency Response Improvement for Inertial Magnetolectric Velocity Sensor Using Frequency-Selected Compensation Network. *Chen, X.*, +, *JSEN Nov. 2013 4141-4146*
- Selective Weighing of Individual Microparticles Using a Hybrid Micromanipulator-Nanomechanical Resonator System. *Chan, B.-D.*, +, *JSEN Aug. 2013 2857-2862*
- Frequency modulation**
- Contactless Liquid-Level Measurement With Frequency-Modulated Mil-limeter Wave Through Opaque Container. *Nakagawa, T.*, +, *JSEN March 2013 926-933*
- Design of Highly Selective Metamaterials for Sensing Platforms. *Song, K.*, +, *JSEN Sept. 2013 3377-3385*
- Versatile Sub-THz Spectrometer for Trace Gas Analysis. *Mouret, G.*, +, *JSEN Jan. 2013 133-138*
- Frequency response**
- Dual-Resonant Search Coil for Natural Electromagnetic Waves in the Near-Earth Environment. *Ozaki, M.*, +, *JSEN Feb. 2013 644-650*
- Frequency Response Improvement for Inertial Magnetolectric Velocity Sensor Using Frequency-Selected Compensation Network. *Chen, X.*, +, *JSEN Nov. 2013 4141-4146*
- Frequency stability**
- Stability of Silicon Microelectromechanical Systems Resonant Thermometers. *Ng, E. J.*, +, *JSEN March 2013 987-993*
- Frequency-domain analysis**
- A CMOS-MEMS Resonator Integrated System for Oscillator Application. *Pachkawade, V.*, +, *JSEN Aug. 2013 2882-2889*
- Cantilever Resonator With Integrated Actuation and Sensing Fabricated Using a Single Step Lithography. *Mohanasundaram, S. M.*, +, *JSEN Feb. 2013 440-441*
- Highly Resolved Sub-Terahertz Vibrational Spectroscopy of Biological Macromolecules and Cells. *Globus, T.*, +, *JSEN Jan. 2013 72-79*
- Fresnel diffraction**
- Utilization of Chitosan-Based Sensor Thin Films for the Detection of Lead Ion by Surface Plasmon Resonance Optical Sensor. *Fen, Y. W.*, +, *JSEN May 2013 1413-1418*
- Friction**
- Embedded Flexible Force Sensor for In-Situ Tire-Road Interaction Measurements. *Zhang, Y.*, +, *JSEN May 2013 1756-1765*
- Friction in Totally Optical Robotic Finger Oriented on Shear Force Measurement. *Massaro, A.*, +, *JSEN Feb. 2013 548-555*
- Fusion reactor instrumentation**
- Novel Online Re-Calibration Method for Multi-Axis Force/Torque Sensor of ITER Welding/Machining Robot. *Roobahani, H.*, +, *JSEN Nov. 2013 4432-4443*
- Fuzzy control**
- Design of Pervasive Rehabilitation Monitoring for Chronic Obstructive Pul-monary Disease. *Wu, M.-F.*, +, *JSEN Nov. 2013 4413-4422*
- Fuzzy logic**
- Distributed Fuzzy Logic-Based Relay Selection Algorithm for Cooperative Wireless Sensor Networks. *Brante, G.*, +, *JSEN Nov. 2013 4375-4386*
- Fuzzy reasoning**
- Adaptive Neuro-Fuzzy Inference System-Based Remote Bulk Soil Moisture Estimation: Using CosmOz Cosmic Ray Sensor. *Dutta, R.*, +, *JSEN June 2013 2374-2381*
- Fuzzy set theory**
- Novel Wavelet-mFCM Algorithm for Environmental Sensor Drift Correc-tion. *Dutta, R.*, +, *JSEN July 2013 2519-2520*
- Surface EMG Based Hand Manipulation Identification Via Nonlinear Fea-ture Extraction and Classification. *Ju, Z.*, +, *JSEN Sept. 2013 3302-3311*

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Gain

A Fully Integrated Hall Sensor Microsystem for Contactless Current Mea-surement. *Ajbl, A.*, +, *JSEN June 2013 2271-2278*

Gait analysis

Classification of Animals and People Ultrasonic Signatures. *Damarla, T.*, +, *JSEN MAY 2013 1464-1472*

Designing Sensitive Wearable Capacitive Sensors for Activity Recognition. *Cheng, J.*, +, *JSEN Oct. 2013 3935-3947*

High-Performance Interface Electronic System for a 13×13 Flexible Biomechanical Ground Reaction Sensor Array Achieving a Gait Ground Velocity Resolution of $100 \mu\text{m}/\text{sec}$. *Guo, Q.*, +, *JSEN Nov. 2013 4496-4505*

Gallium alloys

A Soft Strain Sensor Based on Ionic and Metal Liquids. *Chossat, J.-B.*, +, *JSEN Sept. 2013 3405-3414*

Gallium arsenide

Continuous Wave Spectroscopic Terahertz Imaging With InGaAs Bow-Tie Diodes at Room Temperature. *Kasalynas, I.*, +, *JSEN Jan. 2013 50-54*

InP- and GaAs-Based Plasmonic High-Electron-Mobility Transistors for Room-Temperature Ultrahigh-Sensitive Terahertz Sensing and Imaging. *Watanabe, T.*, +, *JSEN Jan. 2013 89-99*

Long Wavelength Low Temperature Grown GaAs and InP-Based Terahertz Photoconductors Devices. *Missous, M.*, +, *JSEN Jan. 2013 63-71*

Phase-Sensitive Terahertz Self-Heterodyne System Based on Photodiode and Low-Temperature-Grown GaAs Photoconductor at $1.55 \mu\text{m}$. *Hisatake, S.*, +, *JSEN Jan. 2013 31-36*

Gallium compounds

$\beta\text{-Ga}_2\text{O}_3$ Nanowires-Based Humidity Sensors Prepared on GaN/Sapphire Substrate. *Tsai, T.-Y.*, +, *JSEN Dec. 2013 4891-4896*

Ga_2O_3 Nanowire Photodetector Prepared on SiO_2/Si Template. *Wu, Y. L.*, +, *JSEN June 2013 2368-2373*

$\text{Ga}_2\text{O}_3/\text{AlGaIn}/\text{GaN}$ Heterostructure Ultraviolet Three-Band Photode-tector. *Huang, Z.-D.*, +, *JSEN Sept. 2013 3462-3467*

NO_2 Detection With AlGaIn/GaN 2DEG Channels for Air Quality Moni-toring. *Offermans, P.*, +, *JSEN Aug. 2013 2823-2827*

A Wireless-Transfer-Based Hydrogen Gas Sensing System With a Pd/AlGaIn/GaN Heterostructure Field-Effect Transistor (HFET). *Hsu, C.-S.*, +, *JSEN June 2013 2299-2304*

Detection of Transplant Rejection Chemokine Protein Biomarker in Physi-ological Salt Concentration. *Tulip, F. S.*, +, *JSEN Feb. 2013 438-439*

GaN-Based S_0 -Wave Sensors on Silicon for Chemical and Biological Sensing in Liquid Environments. *Lu, X.*, +, *JSEN April 2013 1245-1251*

Hydrogen-Sensing Properties of a Pd/AlGaIn/GaN-Based Field-Effect Tran-sistor Under a Nitrogen Ambience. *Hsu, C.-S.*, +, *JSEN May 2013 1787-1793*

InGaIn/GaN Multiquantum-Well Metal-Semiconductor-Metal Photodete-ctors With Beta- Ga_2O_3 Cap Layers. *Huang, Z.-D.*, +, *JSEN April 2013 1187-1191*

Nitro-Aromatic Explosive Sensing Using GaN Nanowire-Titania Nan-ocluster Hybrids. *Aluri, G. S.*, +, *JSEN May 2013 1883-1888*

THz Hot-Electron Micro-Bolometer Based on Low-Mobility 2-DEG in GaN Heterostructure. *Choi, J. K.*, +, *JSEN Jan. 2013 80-88*

Game theory

Game Theoretic Pattern Analysis for Identification of Odors/Gases Using Response of a Poorly Selective Sensor Array. *Kumar, R.*, +, *JSEN March 2013 1110-1116*

Gamma-ray detection

A Low-Power Directional Gamma-Ray Sensor System for Long-Term Radiation Monitoring. *Schrage, C.*, +, *JSEN July 2013 2610-2618*

Gamma-ray effects

Sensing the Thermal History of High-Explosive Detonations Using Thermoluminescent Microparticles. *Mah, M. L.*, +, *JSEN May 2013 1742-1747*

Gas sensors

NH₃ Sensing by *p*-ZnO Thin Films. *Balakrishnan, L. N.*, +, *JSEN June 2013 2055-2060*

NO₂ Detection With AlGaIn/GaN 2DEG Channels for Air Quality Monitoring. *Offermans, P.*, +, *JSEN Aug. 2013 2823-2827*

WO₃ Hydrogen Resistive Gas Sensor and Its Wide-Range Current-Mode Electronic Read-Out Circuit. *De Marcellis, A.*, +, *JSEN July 2013 2792-2798*

A Microconcentrator Design Using Low Temperature Cofired Ceramics Technology for Acetone Detection Applications. *Rydzos, A.*, +, *JSEN May 2013 1889-1896*

A Robust Flexible Electrochemical Gas Sensor Using Room Temperature Ionic Liquid. *Mu, X.*, +, *JSEN Oct. 2013 3976-3981*

A Wireless Passive Sensor for Temperature Compensated Remote pH Monitoring. *Bhadra, S.*, +, *JSEN June 2013 2428-2436*

A Wireless-Transfer-Based Hydrogen Gas Sensing System With a Pd/AlGaIn/GaN Heterostructure Field-Effect Transistor (HFET). *Hsu, C.-S.*, +, *JSEN June 2013 2299-2304*

Analytical Modeling of Square Microhotplate for Gas Sensing Application. *Saxena, G.*, +, *JSEN Dec. 2013 4851-4859*

Carbon Nanotubes With Adsorbed Au for Sensing Gas. *Lin, Z.-D.*, +, *JSEN June 2013 2423-2427*

Characteristics of an Optical Fiber Hydrogen Gas Sensor Based on a Palladium and Yttrium Alloy Thin Film. *Liu, Y.*, +, *JSEN July 2013 2699-2704*
Chemiluminescent Visualization for Evaluation of Gaseous Ethanol Distribution During 'La France' Pear Maturation. *Arakawa, T.*, +, *JSEN Aug. 2013 2842-2848*

Classification of Gases/Odors Using Dynamic Responses of Thick Film Gas Sensor Array. *Sunny, +*, *JSEN Dec. 2013 4924-4930*

Context-Adaptive Multimodal Wireless Sensor Network for Energy-Efficient Gas Monitoring. *Jelicic, V.*, +, *JSEN Jan. 2013 328-338*

Development of a Reusable Atomic Oxygen Sensor Using Zinc Oxide Thick Films. *Valer, J. C.*, +, *JSEN Aug. 2013 3046-3052*

Engineering the Sensitivity and Response Time of Edge-Emitting Laser Hydrogen Sensors. *Griffin, B. G.*, +, *JSEN Aug. 2013 3098-3105*

Epitaxial Single and Double Nanolayers of SnO₂ and TiO₂ for Resistive Gas Sensors. *Rosental, A.*, +, *JSEN May 2013 1648-1655*

Flexible Carbon Nanotube Based Gas Sensors Fabricated by Large-Scale Spray Deposition. *Abdellah, A.*, +, *JSEN Oct. 2013 4014-4021*

Gases/Odors Identification With Artificial Immune Recognition System Using Thick Film Gas Sensor Array Responses. *Sunny, +*, *JSEN Aug. 2013 3039-3045*

High Detection Performance of NDIR CO₂ Sensor Using Stair-Tapered Reflector. *Han, J.-H.*, +, *JSEN Aug. 2013 3090-3097*

High Dynamic Range Methanol Sensor Based on Aligned ZnO Nanorods. *Banerjee, N.*, +, *JSEN May 2013 1669-1676*

Improved Chemical Detection and Ultra-Fast Recovery Using Oxygen Functionalized Epitaxial Graphene Sensors. *Nagareddy, V. K.*, +, *JSEN Aug. 2013 2810-2817*

Influence of Substrate Temperature on H₂S Gas Sensing Properties of Nanocrystalline Zinc Oxide Thin Films Prepared by Advanced Spray Pyrolysis. *Shewale, P. S.*, +, *JSEN May 2013 1992-1998*

Integrated Impactor/Detector for a High-Throughput Explosive-Trace Detection Portal. *Fulghum, M. R.*, +, *JSEN April 2013 1252-1258*

Layer-by-Layer Structured AuNP Sensors for Terpene Vapor Detection. *Chen, B.*, +, *JSEN Nov. 2013 4212-4219*

Liquid Phase Deposition Based SnO₂ Gas Sensor Integrated With TaN Heater on a Micro-Hotplate. *Chiou, J.-C.*, +, *JSEN June 2013 2466-2473*

NADH-Fluorometric Biochemical Gas Sensor (Bio-Sniffer) for Evaluation of Indoor Air Quality. *Kudo, H.*, +, *JSEN Aug. 2013 2828-2833*

Photoactivated TiO₂ Gas Chromatograph Detector for Diverse Chemical Compounds Sensing at Room Temperature. *Tian, W.-C.*, +, *JSEN May 2013 1725-1729*

Physical-Based Characterization of Noise Responses in Metal-Oxide Gas Sensors. *Contaret, T.*, +, *JSEN March 2013 980-986*

Planar Optical Waveguide Platform for Gas Sensing Using Liquid Crystal. *Ho, W. F.*, +, *JSEN July 2013 2521-2522*

Polymer-Based Chemicapacitor Sensor for 1-Octanol and Relative Humidity Detections at Different Temperatures and Frequencies. *Emadi, T. A.*, +, *JSEN Feb. 2013 519-527*

Selective Sensing of Individual Gases Using Graphene Devices. *Rumyantsev, S.*, +, *JSEN Aug. 2013 2818-2822*

Sensor for Thermal Gas Analysis Based on Micromachined Silicon-Microwires. *Kliche, K.*, +, *JSEN July 2013 2626-2635*

Study on a Metal-Insulator-Silicon Hydrogen Sensor With LaTiON as Gate Insulator. *Yu, J.*, +, *JSEN May 2013 1534-1540*

Terpene Detection Based on Localized Surface Plasma Resonance of Thiolate-Modified Au Nanoparticles. *Chen, B.*, +, *JSEN April 2013 1307-1314*

Thermal-Piezoresistive Resonators and Self-Sustained Oscillators for Gas Recognition and Pressure Sensing. *Guo, X.*, +, *JSEN Aug. 2013 2863-2872*

THz Hot-Electron Micro-Bolometer Based on Low-Mobility 2-DEG in GaN Heterostructure. *Choi, J. K.*, +, *JSEN Jan. 2013 80-88*

Versatile Gas Detection System Based on Combined NDIR Transmission and Photoacoustic Absorption Measurements. *Kuhn, K.*, +, *JSEN March 2013 934-940*

Gaskets

Soft Fiber Optic Sensors for Precision Measurement of Shear Stress and Pressure. *Zhang, Z. F.*, +, *JSEN May 2013 1478-1482*

Gauges

Flash Flatness Measurement System Using Digital Dial Gauges. *Li, Q.*, +, *JSEN June 2013 2051-2052*

Gaussian noise

Pulse Detection by Gated Synchronous Demodulation. *Efthymiou, S.*, +, *JSEN Sept. 2013 3349-3360*

Gaussian processes

Active Millimeter Wave Sensor for Standoff Concealed Threat Detection. *Andrews, D. A.*, +, *JSEN Dec. 2013 4948-4954*

New Semidefinite Relaxation Method for Acoustic Energy-Based Source Localization. *Wang, G.*, +, *JSEN May 2013 1514-1521*

Performance of a New Bundle Fiber Sensor of 1000 RF in Comparison With 16 RF Probe. *Abdullah, M.*, +, *JSEN Nov. 2013 4522-4526*

Surface EMG Based Hand Manipulation Identification Via Nonlinear Feature Extraction and Classification. *Ju, Z.*, +, *JSEN Sept. 2013 3302-3311*

Gears

Gearbox Speed Sensor Design and Performance Optimization. *Manyala, J. O.*, +, *JSEN Feb. 2013 629-636*

Geiger counters

Development of Mobile Radiation Monitoring System Utilizing Smartphone and Its Field Tests in Fukushima. *Ishigaki, Y.*, +, *JSEN Oct. 2013 3520-3526*

Genetic algorithms

Fault Node Recovery Algorithm for a Wireless Sensor Network. *Shih, H.-C.*, +, *JSEN July 2013 2683-2689*

Wire Fault Location in Coaxial Cables by Impedance Spectroscopy. *Shi, Q.*, +, *JSEN Nov. 2013 4465-4473*

Genetics

Ocular Biometric Measurements to Diagnose Neurological Disorders Due to Wilson Disease. *Morello, R.*, +, *JSEN Sept. 2013 3203-3210*

Geographic information systems

Online Monitoring of Geological CO₂ Storage and Leakage Based on Wireless Sensor Networks. *Yang, H.*, +, *JSEN Feb. 2013 556-562*

Geometrical optics

A Calibration Method for Eye-Gaze Estimation Systems Based on 3D Geometrical Optics. *Lee, H.*, +, *JSEN Sept. 2013 3219-3225*

Geometry

Architecture of Noninvasive Real Time Visual Monitoring System for Dial Type Measuring Instrument. *Jaffery, Z. A.*, +, *JSEN April 2013 1236-1244*

UKF for Integrated Vision and Inertial Sensors Based on Three-View Geometry. *Fang, Q.*, +, *JSEN July 2013 2711-2719*

Geomorphology

MEMS-Integrated Load Cell for Measuring Pressure, Erosion, and Deposition in Dynamic Environmental Flows. *Hobby, M. J.*, +, *JSEN Feb. 2013 492-500*

Geophysical equipment

All-Metal Optical Fiber Accelerometer With Low Transverse Sensitivity for Seismic Monitoring. *Jiang, D.*, +, *JSEN Nov. 2013 4556-4560*

Online Monitoring of Geological CO₂ Storage and Leakage Based on Wireless Sensor Networks. *Yang, H.*, +, *JSEN Feb. 2013 556-562*

- Precise Moisture Monitoring for Various Soil Types Using Handheld Microwave-Sensor Meter. *You, K. Y.*, +, *JSEN July 2013 2563-2570*
- Geophysical fluid dynamics**
MEMS-Integrated Load Cell for Measuring Pressure, Erosion, and Deposition in Dynamic Environmental Flows. *Hobby, M. J.*, +, *JSEN Feb. 2013 492-500*
- Geophysical image processing**
An Efficient Hybrid Classification Approach for Land Use/Land Cover Analysis in a Semi-Desert Area Using ETM+ and LISS-III Sensor. *Kumar, P.*, +, *JSEN June 2013 2161-2165*
- Geophysical prospecting**
All-Metal Optical Fiber Accelerometer With Low Transverse Sensitivity for Seismic Monitoring. *Jiang, D.*, +, *JSEN Nov. 2013 4556-4560*
- Geophysical techniques**
An Efficient Hybrid Classification Approach for Land Use/Land Cover Analysis in a Semi-Desert Area Using ETM+ and LISS-III Sensor. *Kumar, P.*, +, *JSEN June 2013 2161-2165*
- Geophysics computing**
Adaptive Neuro-Fuzzy Inference System-Based Remote Bulk Soil Moisture Estimation: Using CosmOz Cosmic Ray Sensor. *Dutta, R.*, +, *JSEN June 2013 2374-2381*
Online Monitoring of Geological CO₂ Storage and Leakage Based on Wireless Sensor Networks. *Yang, H.*, +, *JSEN Feb. 2013 556-562*
Performance Evaluation of South Esk Hydrological Sensor Web: Unsupervised Machine Learning and Semantic Linked Data Approach. *Dutta, R.*, +, *JSEN Oct. 2013 3806-3815*
Systematic Underestimation of MODIS Global Chlorophyll-a Concentration Estimation Algorithm Associating With Scale Effect. *Chen, J.*, +, *JSEN May 2013 1656-1661*
- Geotechnical structures**
Fiber Optic Bending Sensor for Water Level Monitoring: Development and Field Test: A Review. *Rosolem, J. B.*, +, *JSEN Nov. 2013 4113-4120*
- Geriatrics**
Enhanced Compressibility of EEG Signal in Alzheimer's Disease Patients. *Morabito, F. C.*, +, *JSEN Sept. 2013 3255-3262*
- Germanium**
Detection of Fuel Adulteration With High Sensitivity Using Turnaround Point Long Period Fiber Gratings in B/Ge Doped Fibers. *Kher, S.*, +, *JSEN Nov. 2013 4482-4486*
- Giant magnetoresistance**
Characterization of an Optimized Off-Diagonal GMI-Based Magnetometer. *Dufay, B.*, +, *JSEN Jan. 2013 379-388*
Improving Performance of GMR Sensors. *Bernieri, A.*, +, *JSEN Nov. 2013 4513-4521*
- Glass**
A Miniaturized pH Sensor With an Embedded Counter Electrode and a Readout Circuit. *Veeramani, M. S.*, +, *JSEN May 2013 1941-1948*
Detection of Hepatitis B DNA Sequences on Polyelectrolyte Based Non-Covalently Functionalized Flexible Plastic Substrates. *Goudar, V. S.*, +, *JSEN Dec. 2013 4817-4823*
Influence of Substrate Temperature on H₂S Gas Sensing Properties of Nanocrystalline Zinc Oxide Thin Films Prepared by Advanced Spray Pyrolysis. *Shewale, P. S.*, +, *JSEN May 2013 1992-1998*
Miniature Fabry-Perot Fiber Optic Sensor for Intravascular Blood Temperature Measurements. *Zou, X.*, +, *JSEN June 2013 2155-2160*
- Glass fiber reinforced composites**
Spatial Sensing Using Electrical Impedance Tomography. *Loyola, B. R.*, +, *JSEN June 2013 2357-2367*
- Global Positioning System**
A Distributed Localization Algorithm for Wireless Sensor Networks Based on the Solutions of Spatially-Constrained Local Problems. *Cota-Ruiz, J.*, +, *JSEN June 2013 2181-2191*
Online Monitoring of Geological CO₂ Storage and Leakage Based on Wireless Sensor Networks. *Yang, H.*, +, *JSEN Feb. 2013 556-562*
- Glow discharges**
Characterization of a Glow Discharge Detector With Terahertz Time Domain Spectroscopy. *Cinar, K.*, +, *JSEN July 2013 2643-2647*
W-Band Chirp Radar Mock-Up Using a Glow Discharge Detector. *Rozban, D.*, +, *JSEN Jan. 2013 139-145*
- Gold**
A Miniaturized pH Sensor With an Embedded Counter Electrode and a Readout Circuit. *Veeramani, M. S.*, +, *JSEN May 2013 1941-1948*
Amperometric Acetylcholinesterase Biosensor Based on O-Carboxymethyl Chitosan-Gold Nanoparticle Nanocomposite by In-Situ Synthesis Method. *Sun, X.*, +, *JSEN Jan. 2013 172-179*
Assembly of Gold Nanorods for Highly Sensitive Detection of Mercury Ions. *Placido, T.*, +, *JSEN Aug. 2013 2834-2841*
Carbon Nanotubes With Adsorbed Au for Sensing Gas. *Lin, Z.-D.*, +, *JSEN June 2013 2423-2427*
Constructing a Novel Asymmetric Dielectric Structure Toward the Realization of High-Performance Surface Plasmon Resonance Biosensors. *Chiu, N.-F.*, +, *JSEN Sept. 2013 3483-3489*
Detection and Monitoring of Microparticles Under Skin by Optical Coherence Tomography as an Approach to Continuous Glucose Sensing Using Implanted Retroreflectors. *Wang, S.*, +, *JSEN Nov. 2013 4534-4541*
Fiber-Optic Refractive Index Sensor Based on the Cone-Based Round Structure. *Jeong, H.-H.*, +, *JSEN Jan. 2013 351-358*
High-Efficient Chip to Wafer Self-Alignment and Bonding Applicable to MEMS-IC Flexible Integration. *Lu, J.*, +, *JSEN Feb. 2013 651-656*
Highly Flexible Magneto-electronic Device Integrated With Embedded Ag Nanoparticle Electrode. *Oh, S.*, +, *JSEN Oct. 2013 3957-3961*
Iron Oxide-Gold Core-Shell Nanoparticles as Multimodal Imaging Contrast Agent. *Menichetti, L.*, +, *JSEN June 2013 2341-2347*
Large-Area Low-Cost Flexible Plastic Nanohole Arrays for Integrated Bio-Chemical Sensing. *Chuo, Y.*, +, *JSEN Oct. 2013 3982-3990*
Layer-by-Layer Structured AuNP Sensors for Terpene Vapor Detection. *Chen, B.*, +, *JSEN Nov. 2013 4212-4219*
Optical Detection of Lead(II) Ions Using DNA-Based Nanosensor. *Breneman, K. L.*, +, *JSEN May 2013 1783-1786*
SPR-Based Optical Fiber Sensors Using Gold-Silver Alloy Particles as the Active Sensing Material. *Tu, H.*, +, *JSEN June 2013 2192-2199*
Study of Digital Dissolved Oxygen Analytical Sensor of ppb-Level. *Qi, X.*, +, *JSEN Nov. 2013 4279-4286*
Terpene Detection Based on Localized Surface Plasma Resonance of Thiolate-Modified Au Nanoparticles. *Chen, B.*, +, *JSEN April 2013 1307-1314*
Weak Adsorption-Induced Surface Stress for Streptavidin Binding to Biotin Tethered to Silicon Microcantilever Arrays. *Ness, S. J.*, +, *JSEN March 2013 959-968*
- Goniometers**
An Attachable Clothing Sensor System for Measuring Knee Joint Angles. *Bergmann, J. H. M.*, +, *JSEN Oct. 2013 4090-4097*
Modeling and Characterization of Extensible Wearable Textile-Based Electrogoniometers. *Lorussi, F.*, +, *JSEN Jan. 2013 217-228*
- Graph theory**
Visual-Based Human Crowds Behavior Analysis Based on Graph Modeling and Matching. *Chen, D.-Y.*, +, *JSEN June 2013 2129-2138*
- Graphene**
Effects of Al(III) and Nano-Al₁₃ on Aldehyde Dehydrogenase Activity on Reduced Graphene Oxide Modified Electrode. *Li, L.*, +, *JSEN Jan. 2013 314-320*
Improved Chemical Detection and Ultra-Fast Recovery Using Oxygen Functionalized Epitaxial Graphene Sensors. *Nagareddy, V. K.*, +, *JSEN Aug. 2013 2810-2817*
Multi-Walled Carbon Nanotubes/Graphene Oxide Composites for Humidity Sensing. *Li, X.*, +, *JSEN Dec. 2013 4749-4756*
Room Temperature Methane Sensor Based on Graphene Nanosheets/Polyaniline Nanocomposite Thin Film. *Wu, Z.*, +, *JSEN Feb. 2013 777-782*
Selective Sensing of Individual Gases Using Graphene Devices. *Rumyantsev, S.*, +, *JSEN Aug. 2013 2818-2822*
The Novel Carbon Nanomaterials Electrochemical Sensor for Determination of Trace Aluminum in Human Body Fluids With 8-Hydroxyquinoline. *Tang, Y.-Z.*, +, *JSEN Sept. 2013 3270-3275*
- Graphical user interfaces**
A Novel Glove Monitoring System Used to Quantify Neurological Symptoms During Deep-Brain Stimulation Surgery. *Dai, H.*, +, *JSEN Sept. 2013 3193-3202*
- Graphs**
A Linear Approach to Multi-Panel Sensing in Personalized Therapy for Cancer Treatment. *Baj-Rossi, C.*, +, *JSEN Dec. 2013 4860-4865*
- Gravimeters**
Deploying Sensors for Gravity Measurement in a Body-Area Inertial Sensor Network. *Wu, C.-H.*, +, *JSEN May 2013 1522-1533*
Precise Moisture Monitoring for Various Soil Types Using Handheld Microwave-Sensor Meter. *You, K. Y.*, +, *JSEN July 2013 2563-2570*

Grid computing

Scalable Channel Allocation and Access Scheduling for Wireless Internet-of-Things. *Wu, D.*, +, *JSEN Oct. 2013 3596-3604*

Groundwater

An Associative Relational Impact of Water Quality on Crop Yield: A Comprehensive Index Analysis Using LISS-III Sensor. *Singh, K.*, +, *JSEN Dec. 2013 4912-4917*

Gyroscopes

Four Point Probe Micro-Optical Gyroscope With Self Calibration Control. *Mitatha, S.*, +, *JSEN July 2013 2705-2710*

Spectral Analysis of Vibratory Gyro Noise. *Kim, D.*, +, *JSEN Nov. 2013 4361-4374*

UKF for Integrated Vision and Inertial Sensors Based on Three-View Geometry. *Fang, Q.*, +, *JSEN July 2013 2711-2719*

H **H_∞ control**

Discrete-Time H_∞ Filtering for Mobile Robot Localization Using Wireless Sensor Network. *Hur, H.*, +, *JSEN Jan. 2013 245-252*

Hafnium compounds

Characteristics of Flexible Thin-Film Transistors With ZnO Channels. *Ji, L.-W.*, +, *JSEN Dec. 2013 4940-4943*

High Polarization and Low-Repulsion HfO₂ Thin Film for Alkali Metal Ion Detections by Plasma System With a Complementary Filter. *Huang, C.-H.*, +, *JSEN June 2013 2459-2465*

Hall effect

High Dynamic Range Methanol Sensor Based on Aligned ZnO Nanorods. *Banerjee, N.*, +, *JSEN May 2013 1669-1676*

Hall effect transducers

2-D Differential Folded Vertical Hall Device Fabricated on a P-Type Substrate Using CMOS Technology. *Sung, G.-M.*, +, *JSEN June 2013 2253-2262*

Wireless Temperature Sensor for Condition Monitoring of Bearings Operating Through Thick Metal Plates. *Gupta, L. A.*, +, *JSEN June 2013 2292-2298*

Hamming codes

Distributed Block Arithmetic Coding for Equiprobable Sources. *Zhou, J.*, +, *JSEN July 2013 2750-2756*

Handicapped aids

Eye Control System Base on Ameliorated Hough Transform Algorithm. *Xiong, J.*, +, *JSEN Sept. 2013 3421-3429*

Issues in Wall Tracking With a CTFM Ultrasonic Sensor. *Antoun, S. M.*, +, *JSEN Dec. 2013 4671-4681*

Hard discs

Integration of Thin Film Strain Sensors Into Hard Drives for Active Feedback Vibration Suppression. *Felix, S.*, +, *JSEN May 2013 1708-1715*

Hardness

Design and Modeling of a Wide Dynamic-Range Hardness Sensor for Biological Tissue Assessment. *Zhao, S.*, +, *JSEN Dec. 2013 4613-4620*

Hardware description languages

Parallel-Data Reconstruction for Limited Views Tomography Sensors by Sinusoidal Hough Transform. *Cantoral-Ceballos, J. A.*, +, *JSEN Feb. 2013 581-588*

Harmonics

Cantilever Resonator With Integrated Actuation and Sensing Fabricated Using a Single Step Lithography. *Mohanasundaram, S. M.*, +, *JSEN Feb. 2013 440-441*

Health care

Development and Evaluation of a Wristwatch-Type Photoplethysmography Array Sensor Module. *Lee, Y. K.*, +, *JSEN May 2013 1459-1463*

Hazardless Biomedical Sensing Data Transmission Using VLC. *Cheong, Y.-K.*, +, *JSEN Sept. 2013 3347-3348*

Intra-Mobility Support Solutions for Healthcare Wireless Sensor Networks—Handover Issues. *Caldeira, J. M. L. P.*, +, *JSEN Nov. 2013 4339-4348*

Non-Intrusive Healthcare System in Global Machine-to-Machine Networks. *Jung, S.-J.*, +, *JSEN Dec. 2013 4824-4830*

Wireless Machine-to-Machine Healthcare Solution Using Android Mobile Devices in Global Networks. *Jung, S.-J.*, +, *JSEN May 2013 1419-1424*

Health hazards

Hazardless Biomedical Sensing Data Transmission Using VLC. *Cheong, Y.-K.*, +, *JSEN Sept. 2013 3347-3348*

Heat radiation

Calculation Research on Infrared Radiation Characteristic on Flying Projectile in Sky-Screen. *Li, H.*, +, *JSEN May 2013 1959-1964*

Heat transfer

A Novel Flexible Thermoelectric Sensor for Intravascular Flow Assessment. *van der Horst, A.*, +, *JSEN Oct. 2013 3883-3891*

Polymer-Based Chemicapacitor Sensor for 1-Octanol and Relative Humidity Detections at Different Temperatures and Frequencies. *Emadi, T. A.*, +, *JSEN Feb. 2013 519-527*

Helicopters

Robust Classification Scheme for Airplane Targets With Low Resolution Radar Based on EMD-CLEAN Feature Extraction Method. *Du, L.*, +, *JSEN Dec. 2013 4648-4662*

Helmet mounted displays

Eye Control System Base on Ameliorated Hough Transform Algorithm. *Xiong, J.*, +, *JSEN Sept. 2013 3421-3429*

Hemodynamics

An Innovative Strategy for Correctly Interpreting Simultaneous Acquisition of EEG Signals and fMRI Images. *Fabbiano, L.*, +, *JSEN Sept. 2013 3175-3181*

Iron Oxide-Gold Core-Shell Nanoparticles as Multimodal Imaging Contrast Agent. *Menichetti, L.*, +, *JSEN June 2013 2341-2347*

Heterodyne detection

A CMOS Sensor for Measurement of Cerebral Optical Coefficients Using Non-Invasive Frequency Domain Near Infrared Spectroscopy. *Shahalekar, C. C.*, +, *JSEN Sept. 2013 3166-3174*

Phase-Sensitive Terahertz Self-Heterodyne System Based on Photodiode and Low-Temperature-Grown GaAs Photoconductor at 1.55 μm . *Hisatake, S.*, +, *JSEN Jan. 2013 31-36*

Hidden Markov models

HMM-Based Human Fall Detection and Prediction Method Using Tri-Axial Accelerometer. *Tong, L.*, +, *JSEN May 2013 1849-1856*

Log-Logistic Modeling of Sensory Flow Delays in Networked Telerobots. *Gago-Benitez, A.*, +, *JSEN Aug. 2013 2944-2953*

High electron mobility transistors

A Wireless-Transfer-Based Hydrogen Gas Sensing System With a Pd/AlGaIn/GaN Heterostructure Field-Effect Transistor (HFET). *Hsu, C.-S.*, +, *JSEN June 2013 2299-2304*

Detection of Transplant Rejection Chemokine Protein Biomarker in Physiological Salt Concentration. *Tulip, F. S.*, +, *JSEN Feb. 2013 438-439*

InP- and GaAs-Based Plasmonic High-Electron-Mobility Transistors for Room-Temperature Ultrahigh-Sensitive Terahertz Sensing and Imaging. *Watanabe, T.*, +, *JSEN Jan. 2013 89-99*

High-pass filters

Frequency Response Improvement for Inertial Magnetolectric Velocity Sensor Using Frequency-Selected Compensation Network. *Chen, X.*, +, *JSEN Nov. 2013 4141-4146*

High-speed optical techniques

“On-the-Fly” Monitoring With a Single-Shot Terahertz Time-Domain Spectrometer. *Jeunesse, P.*, +, *JSEN Jan. 2013 44-49*

High-temperature techniques

AlN/Sapphire: Promising Structure for High Temperature and High Frequency SAW Devices. *Blampain, E.*, +, *JSEN Dec. 2013 4607-4612*

Holey fibers

A Hybrid Fiber Interferometer for Simultaneous Refractive Index and Temperature Measurements Based on Fabry–Perot/Michelson Interference. *Sun, H.*, +, *JSEN May 2013 2039-2044*

Home automation

EPS: An Efficient and Privacy-Preserving Service Searching Scheme for Smart Community. *Liang, X.*, +, *JSEN Oct. 2013 3702-3710*

Towards the Implementation of IoT for Environmental Condition Monitoring in Homes. *Kelly, S. D. T.*, +, *JSEN Oct. 2013 3846-3853*

Homodyne detection

Interferometric Technique for Measuring Terahertz Antenna Phase Patterns. *Bowen, J. W.*, +, *JSEN Jan. 2013 100-110*

Hot carriers

THz Hot-Electron Micro-Bolometer Based on Low-Mobility 2-DEG in GaN Heterostructure. *Choi, J. K.*, +, *JSEN Jan. 2013 80-88*

Hough transforms

Eye Control System Base on Ameliorated Hough Transform Algorithm. *Xiong, J.*, +, *JSEN Sept. 2013 3421-3429*

Parallel-Data Reconstruction for Limited Views Tomography Sensors by Sinusoidal Hough Transform. *Cantoral-Ceballos, J. A.*, +, *JSEN Feb. 2013 581-588*

Human computer interaction

Environmental Monitoring Systems: A Review. *Kumar, A.*, +, *JSEN April 2013 1329-1339*

Human-robot interaction

Two-Dimensional Direction Recognition Using Uniaxial Tactile Arrays. *Wu, H.*, +, *JSEN Dec. 2013 4897-4903*

Humanoid robots

A Flexible and Robust Large Scale Capacitive Tactile System for Robots. *Maiolino, P.*, +, *JSEN Oct. 2013 3910-3917*

A Stereo Vision-Based Self-Localization System. *Chiang, J.-S.*, +, *JSEN May 2013 1677-1689*

Flexible Fabric Sensor Toward a Humanoid Robot's Skin: Fabrication, Characterization, and Perceptions. *Ho, V. A.*, +, *JSEN Oct. 2013 4065-4080*

Humidity

β -Ga₂O₃ Nanowires-Based Humidity Sensors Prepared on GaN/Sapphire Substrate. *Tsai, T.-Y.*, +, *JSEN Dec. 2013 4891-4896*

Humidity measurement

Analysis of Polyimide-Coated Optical Fiber Long-Period Grating-Based Relative Humidity Sensor. *Alwis, L.*, +, *JSEN Feb. 2013 767-771*

Fiber Optic Hybrid Device for Simultaneous Measurement of Humidity and Temperature. *Mathew, J.*, +, *JSEN May 2013 1632-1636*

Humidity-to-Frequency Sensor in CMOS Technology With Wireless Readout. *Cirmirakis, D.*, +, *JSEN March 2013 900-908*

Polymer-Based Chemicapacitor Sensor for 1-Octanol and Relative Humidity Detections at Different Temperatures and Frequencies. *Emadi, T. A.*, +, *JSEN Feb. 2013 519-527*

Tapered Plastic Optical Fiber Coated With HEC/PVDF for Measurement of Relative Humidity. *Batumalay, M.*, +, *JSEN Dec. 2013 4702-4705*

Humidity sensors

β -Ga₂O₃ Nanowires-Based Humidity Sensors Prepared on GaN/Sapphire Substrate. *Tsai, T.-Y.*, +, *JSEN Dec. 2013 4891-4896*

A Capacitive Humidity Sensor Suitable for CMOS Integration. *Saeidi, N.*, +, *JSEN Nov. 2013 4487-4495*

All-Fiber Optic Humidity Sensor Based on Photonic Bandgap Fiber and Digital WMS Detection. *Noor, M. Y. M.*, +, *JSEN May 2013 1817-1823*

An In-Fiber Mach-Zehnder Interferometer Based on Arc-Induced Tapers for High Sensitivity Humidity Sensing. *Shao, M.*, +, *JSEN May 2013 2026-2031*

Analysis of Polyimide-Coated Optical Fiber Long-Period Grating-Based Relative Humidity Sensor. *Alwis, L.*, +, *JSEN Feb. 2013 767-771*

Considerations for Lossy-Mode Resonance-Based Optical Fiber Sensor. *Sanchez, P.*, +, *JSEN April 2013 1167-1171*

Deoxyribonucleic Acid Functionalized Carbon Nanotube Network as Humidity Sensors. *Paul, A.*, +, *JSEN May 2013 1806-1816*

Humidity Sensor With a PVA-Coated Photonic Crystal Fiber Interferometer. *Li, T.*, +, *JSEN June 2013 2214-2216*

Humidity-to-Frequency Sensor in CMOS Technology With Wireless Readout. *Cirmirakis, D.*, +, *JSEN March 2013 900-908*

Integration of f-MWCNT Sensor and Printed Circuits on Paper Substrate. *Xie, L.*, +, *JSEN Oct. 2013 3948-3956*

Long Period Fiber Grating Humidity Sensor With Gelatin/Cobalt Chloride Coating. *Nidhi*, +, *JSEN Nov. 2013 4139-4140*

Multi-Walled Carbon Nanotubes/Graphene Oxide Composites for Humidity Sensing. *Li, X.*, +, *JSEN Dec. 2013 4749-4756*

Polymer-Based Chemicapacitor Sensor for 1-Octanol and Relative Humidity Detections at Different Temperatures and Frequencies. *Emadi, T. A.*, +, *JSEN Feb. 2013 519-527*

Printed Humidity Sensor With Memory Functionality for Passive RFID Tags. *Gao, J.*, +, *JSEN May 2013 1824-1834*

Relaxation Oscillator-Based Active Bridge Circuit for Linearly Converting Resistance to Frequency of Resistive Sensor. *Islam, T.*, +, *JSEN May 2013 1507-1513*

Tapered Plastic Optical Fiber Coated With HEC/PVDF for Measurement of Relative Humidity. *Batumalay, M.*, +, *JSEN Dec. 2013 4702-4705*

Woven Temperature and Humidity Sensors on Flexible Plastic Substrates for E-Textile Applications. *Mattana, G.*, +, *JSEN Oct. 2013 3901-3909*

HVAC

Novel Miniature Airflow Energy Harvester for Wireless Sensing Applications in Buildings. *Zhu, D.*, +, *JSEN Feb. 2013 691-700*

Hydraulic actuators

Microwave Displacement Sensor for Hydraulic Devices. *Fericean, S.*, +, *JSEN Dec. 2013 4682-4689*

Hydraulic drives

Microwave Displacement Sensor for Hydraulic Devices. *Fericean, S.*, +, *JSEN Dec. 2013 4682-4689*

Hydrocarbon reservoirs

All-Metal Optical Fiber Accelerometer With Low Transverse Sensitivity for Seismic Monitoring. *Jiang, D.*, +, *JSEN Nov. 2013 4556-4560*

Hydrogels

A Closed-Loop Hydrogel-Based Chemical Sensor. *Schulz, V.*, +, *JSEN March 2013 994-1002*

Hydrogen

WO₃ Hydrogen Resistive Gas Sensor and Its Wide-Range Current-Mode Electronic Read-Out Circuit. *De Marcellis, A.*, +, *JSEN July 2013 2792-2798*

A Wireless-Transfer-Based Hydrogen Gas Sensing System With a Pd/AlGaIn/GaN Heterostructure Field-Effect Transistor (HFET). *Hsu, C.-S.*, +, *JSEN June 2013 2299-2304*

Characteristics of an Optical Fiber Hydrogen Gas Sensor Based on a Palladium and Yttrium Alloy Thin Film. *Liu, Y.*, +, *JSEN July 2013 2699-2704*

Gases/Odors Identification With Artificial Immune Recognition System Using Thick Film Gas Sensor Array Responses. *Sunny*, +, *JSEN Aug. 2013 3039-3045*

Hydrogen-Sensing Properties of a Pd/AlGaIn/GaN-Based Field-Effect Transistor Under a Nitrogen Ambience. *Hsu, C.-S.*, +, *JSEN May 2013 1787-1793*

Microfluidic Chip With Integrated a-Si:H Photodiodes for Chemiluminescence-Based Bioassays. *Caputo, D.*, +, *JSEN July 2013 2595-2602*

Study on a Metal-Insulator-Silicon Hydrogen Sensor With LaTiON as Gate Insulator. *Yu, J.*, +, *JSEN May 2013 1534-1540*

Hydrogen compounds

Influence of Substrate Temperature on H₂S Gas Sensing Properties of Nanocrystalline Zinc Oxide Thin Films Prepared by Advanced Spray Pyrolysis. *Shewale, P. S.*, +, *JSEN May 2013 1992-1998*

Hydrological equipment

Adaptive Neuro-Fuzzy Inference System-Based Remote Bulk Soil Moisture Estimation: Using CosmOz Cosmic Ray Sensor. *Dutta, R.*, +, *JSEN June 2013 2374-2381*

MEMS-Integrated Load Cell for Measuring Pressure, Erosion, and Deposition in Dynamic Environmental Flows. *Hobby, M. J.*, +, *JSEN Feb. 2013 492-500*

Hydrological techniques

Adaptive Neuro-Fuzzy Inference System-Based Remote Bulk Soil Moisture Estimation: Using CosmOz Cosmic Ray Sensor. *Dutta, R.*, +, *JSEN June 2013 2374-2381*

Performance Evaluation of South Esk Hydrological Sensor Web: Unsupervised Machine Learning and Semantic Linked Data Approach. *Dutta, R.*, +, *JSEN Oct. 2013 3806-3815*

Hydrophilicity

High-Efficient Chip to Wafer Self-Alignment and Bonding Applicable to MEMS-IC Flexible Integration. *Lu, J.*, +, *JSEN Feb. 2013 651-656*

Hydrophobicity

High-Efficient Chip to Wafer Self-Alignment and Bonding Applicable to MEMS-IC Flexible Integration. *Lu, J.*, +, *JSEN Feb. 2013 651-656*

Hysteresis

A Flexible and Robust Large Scale Capacitive Tactile System for Robots. *Maiolino, P.*, +, *JSEN Oct. 2013 3910-3917*

Analysis of an MRI Compatible Force Sensor for Sensitivity and Precision. *Turkseven, M.*, +, *JSEN Feb. 2013 476-486*

Flexible Sputter-Deposited Carbon Strain Sensor. *Tata, U.*, +, *JSEN Feb. 2013 444-445*

I**IEEE publishing**

2013 Reviewers List. *JSEN Dec. 2013 4993-5001*

Image classification

An Efficient Hybrid Classification Approach for Land Use/Land Cover Analysis in a Semi-Desert Area Using ETM+ and LISS-III Sensor. *Kumar, P.*, +, *JSEN June 2013 2161-2165*

Classification of Animals and People Ultrasonic Signatures. *Damarla, T.*, +, *JSEN MAY 2013 1464-1472*

Robust Classification Scheme for Airplane Targets With Low Resolution Radar Based on EMD-CLEAN Feature Extraction Method. *Du, L.*, +, *JSEN Dec. 2013 4648-4662*

Image coding

Parallel-Data Reconstruction for Limited Views Tomography Sensors by Sinusoidal Hough Transform. *Cantoral-Ceballos, J. A.*, +, *JSEN Feb. 2013 581-588*

Image color analysis

Constant-Hue-Based Color Filter Array Demosaicking Sensor for Digital Still Camera Implementation. *Fan, Y.-C.*, +, *JSEN July 2013 2586-2594*

New Image Quality Assessment Algorithms for CFA Demosaicing. *Maschal, R. A.*, +, *JSEN Jan. 2013 371-378*

Image matching

Architecture of Noninvasive Real Time Visual Monitoring System for Dial Type Measuring Instrument. *Jaffery, Z. A.*, +, *JSEN April 2013 1236-1244*

Parallel-Data Reconstruction for Limited Views Tomography Sensors by Sinusoidal Hough Transform. *Cantoral-Ceballos, J. A.*, +, *JSEN Feb. 2013 581-588*

Image motion analysis

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Image reconstruction

"On-the-Fly" Monitoring With a Single-Shot Terahertz Time-Domain Spectrometer. *Jeunesse, P.*, +, *JSEN Jan. 2013 44-49*

Concentration and Temperature Tomography at Elevated Pressures. *Wood, M. P.*, +, *JSEN Aug. 2013 3060-3066*

Data Pattern With ECT Sensor and Its Impact on Image Reconstruction. *Yang, Y.*, +, *JSEN May 2013 1582-1593*

Evaluation of Electrical Capacitance Tomography Sensors for Concentric Annulus. *Ye, J.*, +, *JSEN Feb. 2013 446-456*

Parallel-Data Reconstruction for Limited Views Tomography Sensors by Sinusoidal Hough Transform. *Cantoral-Ceballos, J. A.*, +, *JSEN Feb. 2013 581-588*

Image resolution

Design of a Four-Channel Surface Receiver Coil Array Without Preamplifiers for the Decoupling Between Elements: Validation for High-Resolution Rat Knee MR Imaging. *Perrier, A.-L.*, +, *JSEN June 2013 2450-2458*

High-Resolution Touch Floor System Using Particle Swarm Optimization Neural Network. *Kim, H.*, +, *JSEN June 2013 2084-2093*

Infrared Camera Using a Single Nano-Photodetector. *Chen, H.*, +, *JSEN March 2013 949-958*

PDMS Microcantilever-Based Flow Sensor Integration for Lab-on-a-Chip. *Nezhad, A. S.*, +, *JSEN Feb. 2013 601-609*

Image sampling

Constant-Hue-Based Color Filter Array Demosaicking Sensor for Digital Still Camera Implementation. *Fan, Y.-C.*, +, *JSEN July 2013 2586-2594*

Parallel-Data Reconstruction for Limited Views Tomography Sensors by Sinusoidal Hough Transform. *Cantoral-Ceballos, J. A.*, +, *JSEN Feb. 2013 581-588*

Image scanners

An Automatic Evaluation Procedure for 3-D Scanners in Robotics Applications. *Moller, B.*, +, *JSEN Feb. 2013 870-878*

Image segmentation

Architecture of Noninvasive Real Time Visual Monitoring System for Dial Type Measuring Instrument. *Jaffery, Z. A.*, +, *JSEN April 2013 1236-1244*

Constant-Hue-Based Color Filter Array Demosaicking Sensor for Digital Still Camera Implementation. *Fan, Y.-C.*, +, *JSEN July 2013 2586-2594*

New Image Quality Assessment Algorithms for CFA Demosaicing. *Maschal, R. A.*, +, *JSEN Jan. 2013 371-378*

Ocular Biometric Measurements to Diagnose Neurological Disorders Due to Wilson Disease. *Morello, R.*, +, *JSEN Sept. 2013 3203-3210*

Image sensors

"On-the-Fly" Monitoring With a Single-Shot Terahertz Time-Domain Spectrometer. *Jeunesse, P.*, +, *JSEN Jan. 2013 44-49*

A Bio-Inspired APS for Selective Visual Attention. *Cottini, N.*, +, *JSEN Sept. 2013 3341-3342*

Architecture of Noninvasive Real Time Visual Monitoring System for Dial Type Measuring Instrument. *Jaffery, Z. A.*, +, *JSEN April 2013 1236-1244*

Constant-Hue-Based Color Filter Array Demosaicking Sensor for Digital Still Camera Implementation. *Fan, Y.-C.*, +, *JSEN July 2013 2586-2594*

Efficient Lens Distortion Correction for Decoupling in Calibration of Wide Angle Lens Cameras. *Ricolfe-Viala, C.*, +, *JSEN Feb. 2013 854-863*

Fast Automatic Target Detection System Based on a Visible Image Sensor and Ripple Algorithm. *Lan, J.*, +, *JSEN July 2013 2720-2728*

High-Resolution Touch Floor System Using Particle Swarm Optimization Neural Network. *Kim, H.*, +, *JSEN June 2013 2084-2093*

HMM-Based Human Fall Detection and Prediction Method Using Tri-Axial Accelerometer. *Tong, L.*, +, *JSEN May 2013 1849-1856*

Parallel-Data Reconstruction for Limited Views Tomography Sensors by Sinusoidal Hough Transform. *Cantoral-Ceballos, J. A.*, +, *JSEN Feb. 2013 581-588*

PDMS Microcantilever-Based Flow Sensor Integration for Lab-on-a-Chip. *Nezhad, A. S.*, +, *JSEN Feb. 2013 601-609*

Phase Algorithms for Reducing Axial Motion and Linearity Error in Indirect Time of Flight Cameras. *Drayton, B. M. M.*, +, *JSEN Sept. 2013 3386-3396*

Self-Mixing Interferometry With Terahertz Quantum Cascade Lasers. *Valavanis, A.*, +, *JSEN Jan. 2013 37-43*

Tri-Mode Smart Vision Sensor With 11-Transistors/Pixel for Wireless Sensor Networks. *Kim, D.*, +, *JSEN June 2013 2102-2108*

UKF for Integrated Vision and Inertial Sensors Based on Three-View Geometry. *Fang, Q.*, +, *JSEN July 2013 2711-2719*

Vision-Based Displacement Sensor for Monitoring Dynamic Response Using Robust Object Search Algorithm. *Fukuda, Y.*, +, *JSEN Dec. 2013 4725-4732*

Image sequences

A System-Prototype Representing 3D Space via Alternative-Sensing for Visually Impaired Navigation. *Bourbakis, N.*, +, *JSEN July 2013 2535-2547*

Spatial and Time Patterns Extraction of Eddy Current Pulsed Thermography Using Blind Source Separation. *Bai, L.*, +, *JSEN June 2013 2094-2101*

Impact (mechanical)

Application of a Fiber Bragg Grating-Based Sensing System on Investigating Dynamic Behaviors of a Cantilever Beam Under Impact or Moving Mass Loadings. *Chuang, K.-C.*, +, *JSEN Jan. 2013 389-399*

Impedance matching

Capacitive Sensing of Antenna Loading With an R-C Voltage Divider in a Tunable Antenna. *Huttunen, A.*, +, *JSEN Feb. 2013 849-853*

Optimization of Voltage Doublers for Energy Harvesting Applications. *Roscoe, N. M.*, +, *JSEN Dec. 2013 4904-4911*

Impulse noise

Particle Filtering for Acoustic Source Tracking in Impulsive Noise With Alpha-Stable Process. *Zhong, X.*, +, *JSEN Feb. 2013 589-600*

Indium alloys

A Soft Strain Sensor Based on Ionic and Metal Liquids. *Chossat, J.-B.*, +, *JSEN Sept. 2013 3405-3414*

Indium compounds

Continuous Wave Spectroscopic Terahertz Imaging With InGaAs Bow-Tie Diodes at Room Temperature. *Kasalynas, I.*, +, *JSEN Jan. 2013 50-54*

InGaN/GaN Multiquantum-Well Metal-Semiconductor-Metal Photodetectors With Beta-Ga₂O₃ Cap Layers. *Huang, Z.-D.*, +, *JSEN April 2013 1187-1191*

InP- and GaAs-Based Plasmonic High-Electron-Mobility Transistors for Room-Temperature Ultrahigh-Sensitive Terahertz Sensing and Imaging. *Watanabe, T.*, +, *JSEN Jan. 2013 89-99*

Long Wavelength Low Temperature Grown GaAs and InP-Based Terahertz Photoconductors Devices. *Missous, M.*, +, *JSEN Jan. 2013 63-71*

Indoor communication

Estimating Crowd Density in an RF-Based Dynamic Environment. *Yuan, Y.*, +, *JSEN Oct. 2013 3837-3845*

Intra-Mobility Support Solutions for Healthcare Wireless Sensor Networks—Handover Issues. *Caldeira, J. M. L. P.*, +, *JSEN Nov. 2013 4339-4348*

Indoor environment

Context-Adaptive Multimodal Wireless Sensor Network for Energy-Efficient Gas Monitoring. *Jelicic, V.*, +, *JSEN Jan. 2013 328-338*

NADH-Fluorometric Biochemical Gas Sensor (Bio-Sniffer) for Evaluation of Indoor Air Quality. *Kudo, H.*, +, *JSEN Aug. 2013 2828-2833*

Indoor radio

A Cyber Physical Test-Bed for Virtualization of RF Access Environment for Body Sensor Network. *He, J.*, +, *JSEN Oct. 2013 3826-3836*

Indoor Localization With Range-Based Measurements and Little Prior Information. *Arias-de-Reyna, E.*, +, *JSEN May 2013 1979-1987*

Novel Semi-Passive RFID System for Indoor Localization. *Athalye, A.*, +, *JSEN Feb. 2013 528-537*

Inductance

Dual-Resonant Search Coil for Natural Electromagnetic Waves in the Near-Earth Environment. *Ozaki, M.*, +, *JSEN Feb. 2013 644-650*

Performance Improvement of Slow-Wave Rogowski Coils for High Impulse Current Measurement. *Metwally, I. A.*, +, *JSEN Feb. 2013 538-547*

Inductive power transmission

- Humidity-to-Frequency Sensor in CMOS Technology With Wireless Readout. *Cirmirakis, D., +, JSEN March 2013 900-908*
- Wireless Energy and Data Transfer for In-Vivo Epileptic Focus Localization. *Yilmaz, G., +, JSEN Nov. 2013 4172-4179*

Inductive sensors

- A Wireless Passive Sensor for Temperature Compensated Remote pH Monitoring. *Bhadra, S., +, JSEN June 2013 2428-2436*
- Characterization of Magnetic Immunity of an Ironless Inductive Position Sensor. *Masi, A., +, JSEN March 2013 941-948*
- Design of Highly Selective Metamaterials for Sensing Platforms. *Song, K., +, JSEN Sept. 2013 3377-3385*
- Modeling of High-Frequency Electromagnetic Effects on an Ironless Inductive Position Sensor. *Danisi, A., +, JSEN Dec. 2013 4663-4670*
- Novel Optimization Algorithm to Demodulate a PZT-FBG Sensor in AC High Voltage Measurements. *de Assumpcao Ribeiro, B., +, JSEN April 2013 1259-1264*
- Parameters Identification and Modeling of High-Frequency Current Transducer for Partial Discharge Measurements. *Shafiq, M., +, JSEN March 2013 1081-1091*

Inductors

- A Wireless Passive Sensor for Temperature Compensated Remote pH Monitoring. *Bhadra, S., +, JSEN June 2013 2428-2436*
- An Integrated High-Precision Probe System in 0.18- μm CMOS for Near-Field Magnetic Measurements on Cryptographic LSIs. *Mai-Khanh, N. N., +, JSEN July 2013 2675-2682*

Industrial robots

- A Flexible and Robust Large Scale Capacitive Tactile System for Robots. *Maiolino, P., +, JSEN Oct. 2013 3910-3917*

Inertial systems

- High-Performance Interface Electronic System for a 13×13 Flexible Biomechanical Ground Reaction Sensor Array Achieving a Gait Ground Velocity Resolution of 100 $\mu\text{m}/\text{sec}$. *Guo, Q., +, JSEN Nov. 2013 4496-4505*

Inference mechanisms

- Fuzzy Logic Based Multidimensional Link Quality Estimation for Multi-Hop Wireless Sensor Networks. *Guo, Z.-Q., +, JSEN Oct. 2013 3605-3615*
- Sensor Fusion and Target Tracking Using Evidential Data Association. *Dallil, A., +, JSEN Jan. 2013 285-293*
- Towards the Implementation of IoT for Environmental Condition Monitoring in Homes. *Kelly, S. D. T., +, JSEN Oct. 2013 3846-3853*

Information systems

- Towards the Implementation of IoT for Environmental Condition Monitoring in Homes. *Kelly, S. D. T., +, JSEN Oct. 2013 3846-3853*

Infrared detectors

- Calculation Research on Infrared Radiation Characteristic on Flying Projectile in Sky-Screen. *Li, H., +, JSEN May 2013 1959-1964*
- High Detection Performance of NDIR CO_2 Sensor Using Stair-Tapered Reflector. *Han, J.-H., +, JSEN Aug. 2013 3090-3097*
- Infrared Camera Using a Single Nano-Photodetector. *Chen, H., +, JSEN March 2013 949-958*
- Model-Based Low-Noise Readout Integrated Circuit Design for Uncooled Microbolometers. *Lv, J., +, JSEN April 2013 1207-1215*
- Recovered Paperboard Samples Identification by Means of Mid-Infrared Sensors. *Riba, J.-R., +, JSEN July 2013 2763-2770*
- Versatile Gas Detection System Based on Combined NDIR Transmission and Photoacoustic Absorption Measurements. *Kuhn, K., +, JSEN March 2013 934-940*

Infrared imaging

- Infrared Camera Using a Single Nano-Photodetector. *Chen, H., +, JSEN March 2013 949-958*
- Liquid Phase Deposition Based SnO_2 Gas Sensor Integrated With TaN Heater on a Micro-Hotplate. *Chiou, J.-C., +, JSEN June 2013 2466-2473*
- Spatial and Time Patterns Extraction of Eddy Current Pulsed Thermography Using Blind Source Separation. *Bai, L., +, JSEN June 2013 2094-2101*

Infrared spectra

- A Capacitive Humidity Sensor Suitable for CMOS Integration. *Saeidi, N., +, JSEN Nov. 2013 4487-4495*
- A CMOS Sensor for Measurement of Cerebral Optical Coefficients Using Non-Invasive Frequency Domain Near Infrared Spectroscopy. *Shalekar, C. C., +, JSEN Sept. 2013 3166-3174*
- Recovered Paperboard Samples Identification by Means of Mid-Infrared Sensors. *Riba, J.-R., +, JSEN July 2013 2763-2770*

Room Temperature Methane Sensor Based on Graphene Nanosheets/Polyaniline Nanocomposite Thin Film. *Wu, Z., +, JSEN Feb. 2013 777-782*

The Novel Carbon Nanomaterials Electrochemical Sensor for Determination of Trace Aluminum in Human Body Fluids With 8-Hydroxyquinoline. *Tang, Y.-Z., +, JSEN Sept. 2013 3270-3275*

Infrared spectroscopy

Different Scale Confinements of PVDF-TrFE as Functional Material of Piezoelectric Devices. *Canavese, G., +, JSEN June 2013 2237-2244*

Ink

All-Inkjet Printed Strain Sensors. *Ando, B., +, JSEN Dec. 2013 4874-4879*

Ink jet printing

All-Inkjet Printed Strain Sensors. *Ando, B., +, JSEN Dec. 2013 4874-4879*

Integration of f-MWCNT Sensor and Printed Circuits on Paper Substrate. *Xie, L., +, JSEN Oct. 2013 3948-3956*

Woven Temperature and Humidity Sensors on Flexible Plastic Substrates for E-Textile Applications. *Mattana, G., +, JSEN Oct. 2013 3901-3909*

Inspection

Active Whisking-Based Remotely Deployable NDE Sensor. *Macleod, C. N., +, JSEN Nov. 2013 4320-4328*

Capacitive Sensor for Measuring the Filled of Post-Tensioned Ducts. Experimental Setup, Modeling and Signal Processing. *Bore, T., +, JSEN Feb. 2013 457-465*

Detecting Mechanoluminescence From ZnS:Mn Powder Using a High Speed Camera. *Kobakhidze, L., +, JSEN Aug. 2013 3053-3059*

Insulating materials

Analytical Modeling of Square Microhotplate for Gas Sensing Application. *Saxena, G., +, JSEN Dec. 2013 4851-4859*

Integer programming

Analysis of Energy Efficiency of Compressive Sensing in Wireless Sensor Networks. *Karakus, C., +, JSEN May 2013 1999-2008*

Comparative Study of Task Allocation Strategies in Multirobot Systems. *Hatime, H., +, JSEN Jan. 2013 253-262*

Optimizing Complex Cluster Formation in MANETs Using SAT/ILP Techniques. *Zahidi, S. Z. H., +, JSEN June 2013 2400-2412*

When 3G Meets VANET: 3G-Assisted Data Delivery in VANETs. *Zhao, Q., +, JSEN Oct. 2013 3575-3584*

Integrated circuit bonding

High-Efficient Chip to Wafer Self-Alignment and Bonding Applicable to MEMS-IC Flexible Integration. *Lu, J., +, JSEN Feb. 2013 651-656*

Integrated circuit design

A Capacitive Humidity Sensor Suitable for CMOS Integration. *Saeidi, N., +, JSEN Nov. 2013 4487-4495*

A Robust Low Power Carbon Nanotube Sensor Interface Circuit in 180 nm CMOS Technology. *Ren, S., +, JSEN Dec. 2013 4786-4795*

Design of A CMOS Intelligent Light Sensing Chip for Automatic Brightness Tuning Applications. *Chiang, C.-T., +, JSEN Dec. 2013 4955-4961*

Investigations on an Ultra-Thin Bendable Monolithic Si CMOS Image Sensor. *Dogiamis, G. C., +, JSEN Oct. 2013 3892-3900*

Two-Stage Interface Circuit Design for a 32-Color Resolution Optical Sensor. *Assaad, M., +, JSEN Feb. 2013 610-617*

Integrated circuit manufacture

Flex-to-Rigid (F2R): A Generic Platform for the Fabrication and Assembly of Flexible Sensors for Minimally Invasive Instruments. *Mimoun, B., +, JSEN Oct. 2013 3873-3882*

Integrated circuit measurement

An Integrated High-Precision Probe System in 0.18- μm CMOS for Near-Field Magnetic Measurements on Cryptographic LSIs. *Mai-Khanh, N. N., +, JSEN July 2013 2675-2682*

Integrated circuit noise

2-D Differential Folded Vertical Hall Device Fabricated on a P-Type Substrate Using CMOS Technology. *Sung, G.-M., +, JSEN June 2013 2253-2262*

A 768-Channel CMOS Microelectrode Array With Angle Sensitive Pixels for Neuronal Recording. *Johnson, B., +, JSEN Sept. 2013 3211-3218*

Integrated circuit packaging

CMOS Sensor Arrays for High Resolution Die Stress Mapping in Packaged Integrated Circuits. *Chen, Y., +, JSEN June 2013 2066-2076*

Investigations on an Ultra-Thin Bendable Monolithic Si CMOS Image Sensor. *Dogiamis, G. C., +, JSEN Oct. 2013 3892-3900*

Integrated circuit testing

A Novel Closed-Loop Readout Topology for Monolithically Integrated Surface Acoustic Wave Sensors. *Rakshit, S., +, JSEN Nov. 2013 4264-4270*

- On-Chip MOSFET Temperature Sensor for Electrical Characterization of RF Circuits. *Reverter, F.*, +, *JSEN Sept. 2013 3343-3344*
- Integrating circuits**
Parameters Identification and Modeling of High-Frequency Current Transducer for Partial Discharge Measurements. *Shafiq, M.*, +, *JSEN March 2013 1081-1091*
- Intelligent materials**
Embedded Fiber Optic Sensors Within Additive Layer Manufactured Components. *Maier, R. R. J.*, +, *JSEN March 2013 969-979*
- Intelligent sensors**
Design and Analysis of an Embedded Accelerometer Coupled Self-Mixing Laser Displacement Sensor. *Zabit, U.*, +, *JSEN June 2013 2200-2207*
Design of A CMOS Intelligent Light Sensing Chip for Automatic Brightness Tuning Applications. *Chiang, C.-T.*, +, *JSEN Dec. 2013 4955-4961*
Embedded Fiber Optic Sensors Within Additive Layer Manufactured Components. *Maier, R. R. J.*, +, *JSEN March 2013 969-979*
Guest Editorial - Special Issue on Internet of Things (IoT): Architecture, Protocols and Services. *Wang, C.*, +, *JSEN Oct. 2013 3505-3510*
Low-Power CMOS Smart Temperature Sensor With a Batch-Calibrated Inaccuracy of $\pm 0.25^\circ\text{C} (\pm 3\sigma)$ From -70°C to 130°C . *Aita, A. L.*, +, *JSEN May 2013 1840-1848*
Rough-Set-Based Feature Selection and Classification for Power Quality Sensing Device Employing Correlation Techniques. *Dalai, S.*, +, *JSEN Feb. 2013 563-573*
Towards the Implementation of IoT for Environmental Condition Monitoring in Homes. *Kelly, S. D. T.*, +, *JSEN Oct. 2013 3846-3853*
Tri-Mode Smart Vision Sensor With 11-Transistors/Pixel for Wireless Sensor Networks. *Kim, D.*, +, *JSEN June 2013 2102-2108*
- Intensity modulation**
All Fiber-Optic Sensor for Monitoring Pressure Fluctuations in ON/OFF State. *Nath, P.*, +, *JSEN April 2013 1148-1152*
Microfluidic Smectite-Polymer Nanocomposite Strip Sensor for Aflatoxin Detection. *Hu, H.*, +, *JSEN May 2013 1835-1839*
Tapered Plastic Optical Fiber Coated With HEC/PVDF for Measurement of Relative Humidity. *Batumalay, M.*, +, *JSEN Dec. 2013 4702-4705*
- Interference (signal)**
Phased-MIMO Radar With Frequency Diversity for Range-Dependent Beamforming. *Wang, W.-Q.*, +, *JSEN April 2013 1320-1328*
Self Contained Adaptable Optical Wireless Communications System for Stroke Rate During Swimming. *Hagem, R. M.*, +, *JSEN Aug. 2013 3144-3151*
- Interference suppression**
Environmental Monitoring Systems: A Review. *Kumar, A.*, +, *JSEN April 2013 1329-1339*
- Internal stresses**
Piezoelectric Vibratory-Cantilever Force Sensors and Axial Sensitivity Analysis for Individual Triaxial Tactile Sensing. *Yamashita, K.*, +, *JSEN March 2013 1074-1080*
- Internet**
EPS: An Efficient and Privacy-Preserving Service Searching Scheme for Smart Community. *Liang, X.*, +, *JSEN Oct. 2013 3702-3710*
Information Abstraction for Heterogeneous Real World Internet Data. *Ganz, F.*, +, *JSEN Oct. 2013 3793-3805*
IPv6 Addressing Strategies for IoT. *Savolainen, T.*, +, *JSEN Oct. 2013 3511-3519*
On Optimal Scheduling in Duty-Cycled Industrial IoT Applications Using IEEE802.15.4e TSCH. *Palattella, M. R.*, +, *JSEN Oct. 2013 3655-3666*
Online Monitoring of Geological CO₂ Storage and Leakage Based on Wireless Sensor Networks. *Yang, H.*, +, *JSEN Feb. 2013 556-562*
- Internet of Things**
A Distributed RSS-Based Localization Using a Dynamic Circle Expanding Mechanism. *Jiang, J.-A.*, +, *JSEN Oct. 2013 3754-3766*
A Lightweight Multicast Authentication Mechanism for Small Scale IoT Applications. *Yao, X.*, +, *JSEN Oct. 2013 3693-3701*
Convergence of MANET and WSN in IoT Urban Scenarios. *Bellavista, P.*, +, *JSEN Oct. 2013 3558-3567*
Edge Mining the Internet of Things. *Gaura, E. I.*, +, *JSEN Oct. 2013 3816-3825*
Effective Data Collection Via Satellite-Routed Sensor System (SRSS) to Re-localize Global-Scaled Internet of Things. *Kawamoto, Y.*, +, *JSEN Oct. 2013 3645-3654*
Efficient ASIC Implementation and Analysis of Two EPC-C1G2 RFID Authentication Protocols. *Martin, H.*, +, *JSEN Oct. 2013 3537-3547*
- EPS: An Efficient and Privacy-Preserving Service Searching Scheme for Smart Community. *Liang, X.*, +, *JSEN Oct. 2013 3702-3710*
Information Abstraction for Heterogeneous Real World Internet Data. *Ganz, F.*, +, *JSEN Oct. 2013 3793-3805*
IPv6 Addressing Strategies for IoT. *Savolainen, T.*, +, *JSEN Oct. 2013 3511-3519*
Lithe: Lightweight Secure CoAP for the Internet of Things. *Raza, S.*, +, *JSEN Oct. 2013 3711-3720*
Modeling Latency and Reliability of Hybrid Technology Networking. *Shrestha, P. L.*, +, *JSEN Oct. 2013 3616-3624*
On Optimal Scheduling in Duty-Cycled Industrial IoT Applications Using IEEE802.15.4e TSCH. *Palattella, M. R.*, +, *JSEN Oct. 2013 3655-3666*
Percolation Theory-Based Exposure-Path Prevention for Wireless Sensor Networks Coverage in Internet of Things. *Liu, L.*, +, *JSEN Oct. 2013 3625-3636*
Practical Secure Communication for Integrating Wireless Sensor Networks Into the Internet of Things. *Li, F.*, +, *JSEN Oct. 2013 3677-3684*
Quality-Driven Energy-Neutralized Power and Relay Selection for Smart Grid Wireless Multimedia Sensor Based IoTs. *Yao, R.*, +, *JSEN Oct. 2013 3637-3644*
Scalable Channel Allocation and Access Scheduling for Wireless Internet-of-Things. *Wu, D.*, +, *JSEN Oct. 2013 3596-3604*
The Impact of Rank Attack on Network Topology of Routing Protocol for Low-Power and Lossy Networks. *Le, A.*, +, *JSEN Oct. 2013 3685-3692*
Towards the Implementation of IoT for Environmental Condition Monitoring in Homes. *Kelly, S. D. T.*, +, *JSEN Oct. 2013 3846-3853*
Wireless Sensor Networks and the Internet of Things: Optimal Estimation With Nonuniform Quantization and Bandwidth Allocation. *Zhou, Y.*, +, *JSEN Oct. 2013 3568-3574*
- Internetworking**
LCM: A Link-Aware Clustering Mechanism for Energy-Efficient Routing in Wireless Sensor Networks. *Wang, S. S.*, +, *JSEN Feb. 2013 728-736*
Wireless Machine-to-Machine Healthcare Solution Using Android Mobile Devices in Global Networks. *Jung, S.-J.*, +, *JSEN May 2013 1419-1424*
- Interpolation**
Adaptive Neuro-Fuzzy Inference System-Based Remote Bulk Soil Moisture Estimation: Using CosmOz Cosmic Ray Sensor. *Dutta, R.*, +, *JSEN June 2013 2374-2381*
An Associative Relational Impact of Water Quality on Crop Yield: A Comprehensive Index Analysis Using LISS-III Sensor. *Singh, K.*, +, *JSEN Dec. 2013 4912-4917*
Constant-Hue-Based Color Filter Array Demosaicking Sensor for Digital Still Camera Implementation. *Fan, Y.-C.*, +, *JSEN July 2013 2586-2594*
- Inversion layers**
Photodetection With Gate-Controlled Lateral BJTs From Standard CMOS Technology. *Campos, F. S.*, +, *JSEN May 2013 1554-1563*
- Ion beam assisted deposition**
Terpene Detection Based on Localized Surface Plasma Resonance of Thiolate-Modified Au Nanoparticles. *Chen, B.*, +, *JSEN April 2013 1307-1314*
- Ion exchange**
New Potentiometric Carbon Paste Electrode for Determination of Reactive Yellow 160 Dye Concentration in Textile Wastewater. *Ghalwa, N. A.*, +, *JSEN Dec. 2013 4757-4763*
- Ion mobility spectrometers**
Integrated Impactor/Detector for a High-Throughput Explosive-Trace Detection Portal. *Fulghum, M. R.*, +, *JSEN April 2013 1252-1258*
- IP networks**
IPv6 Addressing Strategies for IoT. *Savolainen, T.*, +, *JSEN Oct. 2013 3511-3519*
Wireless Machine-to-Machine Healthcare Solution Using Android Mobile Devices in Global Networks. *Jung, S.-J.*, +, *JSEN May 2013 1419-1424*
- Iridium**
A Wireless Passive Sensor for Temperature Compensated Remote pH Monitoring. *Bhadra, S.*, +, *JSEN June 2013 2428-2436*
- Iridium compounds**
Neural Electrode Array Based on Aluminum: Fabrication and Characterization. *Peixoto, A. C. M.*, +, *JSEN Sept. 2013 3319-3324*
Sol-Gel Iridium Oxide-Based pH Sensor Array on Flexible Polyimide Substrate. *Nguyen, C. M.*, +, *JSEN Oct. 2013 3857-3864*
- Iron alloys**
Effectiveness of Functionalized Nanosystems for Multimodal Molecular Sensing and Imaging in Medicine. *Casciaro, S.*, +, *JSEN June 2013 2305-2312*

Iron compounds

Effectiveness of Functionalized Nanosystems for Multimodal Molecular Sensing and Imaging in Medicine. *Casciaro, S.*, +, *JSEN June 2013 2305-2312*

Iron Oxide-Gold Core-Shell Nanoparticles as Multimodal Imaging Contrast Agent. *Menichetti, L.*, +, *JSEN June 2013 2341-2347*

Irrigation

An Associative Relational Impact of Water Quality on Crop Yield: A Comprehensive Index Analysis Using LISS-III Sensor. *Singh, K.*, +, *JSEN Dec. 2013 4912-4917*

Iterative methods

Aliasing-Free Moving Target Detection in Random Pulse Repetition Interval Radar Based on Compressed Sensing. *Liu, Z.*, +, *JSEN July 2013 2523-2534*

Analysis of an MRI Compatible Force Sensor for Sensitivity and Precision. *Turkseven, M.*, +, *JSEN Feb. 2013 476-486*

Characterizing the Sensitivity of UHF Partial Discharge Sensors Using FDTD Modeling. *Ishak, A. M.*, +, *JSEN Aug. 2013 3025-3031*

Coil Optimization Method for Electromagnetic Induction Systems. *Reed, M. A.*, +, *JSEN Nov. 2013 4506-4512*

Evaluation of Electrical Capacitance Tomography Sensors for Concentric Annulus. *Ye, J.*, +, *JSEN Feb. 2013 446-456*

Wireless Sensor Networks and the Internet of Things: Optimal Estimation With Nonuniform Quantization and Bandwidth Allocation. *Zhou, Y.*, +, *JSEN Oct. 2013 3568-3574*

J**Java**

Online Monitoring of Geological CO₂ Storage and Leakage Based on Wireless Sensor Networks. *Yang, H.*, +, *JSEN Feb. 2013 556-562*

Jet engines

Robust Classification Scheme for Airplane Targets With Low Resolution Radar Based on EMD-CLEAN Feature Extraction Method. *Du, L.*, +, *JSEN Dec. 2013 4648-4662*

Jets

Improvement of Odor Blender Using Electroosmotic Pumps and SAW Atomizer for Low-Volatile Scents. *Ariyakul, Y.*, +, *JSEN Dec. 2013 4918-4923*

K**Kalman filters**

High-Resolution Touch Floor System Using Particle Swarm Optimization Neural Network. *Kim, H.*, +, *JSEN June 2013 2084-2093*

Inertial Sensor Based Indoor Localization and Monitoring System for Emergency Responders. *Zhang, R.*, +, *JSEN Feb. 2013 838-848*

Physiological Tremor Estimation With Autoregressive (AR) Model and Kalman Filter for Robotics Applications. *Tatinati, S.*, +, *JSEN Dec. 2013 4977-4985*

Square Root Cubature Information Filter. *Chandra, K. P. B.*, +, *JSEN Feb. 2013 750-758*

UKF for Integrated Vision and Inertial Sensors Based on Three-View Geometry. *Fang, Q.*, +, *JSEN July 2013 2711-2719*

Knowledge engineering

Performance Evaluation of South Esk Hydrological Sensor Web: Unsupervised Machine Learning and Semantic Linked Data Approach. *Dutta, R.*, +, *JSEN Oct. 2013 3806-3815*

L**Lab-on-a-chip**

A Linear Approach to Multi-Panel Sensing in Personalized Therapy for Cancer Treatment. *Baj-Rossi, C.*, +, *JSEN Dec. 2013 4860-4865*

Analysis of Integrated Optofluidic Lab-on-a-Chip Sensor Based on Refractive Index and Absorbance Sensing. *Krishnaswamy, N.*, +, *JSEN May 2013 1730-1741*

Isotropically Etched Silicon Microarrays for Rapid Breast Cancer Cell Capture. *Nikkhah, M.*, +, *JSEN March 2013 1125-1132*

PDMS Microcantilever-Based Flow Sensor Integration for Lab-on-a-Chip. *Nezhad, A. S.*, +, *JSEN Feb. 2013 601-609*

Lanthanum compounds

Study on a Metal-Insulator-Silicon Hydrogen Sensor With LaTiON as Gate Insulator. *Yu, J.*, +, *JSEN May 2013 1534-1540*

Laser applications in medicine

Distributed Feedback Laser Biosensor Noise Reduction. *Tan, Y.*, +, *JSEN May 2013 1972-1978*

Laser beam machining

Flexible Sputter-Deposited Carbon Strain Sensor. *Tata, U.*, +, *JSEN Feb. 2013 444-445*

Laser-Machined Cascaded Micro Cavities for Simultaneous Measurement of Dual Parameters Under High Temperature. *Ran, Z.*, +, *JSEN May 2013 1988-1991*

Laser cavity resonators

A Switchable Erbium Doped Fiber Ring Laser System for Temperature Sensors Multiplexing. *Rota-Rodrigo, S.*, +, *JSEN June 2013 2279-2283*

Dual-Channel Self-Mixing Vibration Measurement System in a Linear Cavity Fiber Laser. *Lu, L.*, +, *JSEN Nov. 2013 4387-4392*

Self-Mixing Interferometry With Terahertz Quantum Cascade Lasers. *Valavanis, A.*, +, *JSEN Jan. 2013 37-43*

Laser feedback

Dual-Channel Self-Mixing Vibration Measurement System in a Linear Cavity Fiber Laser. *Lu, L.*, +, *JSEN Nov. 2013 4387-4392*

Study of Laser Feedback Phase Under Self-Mixing Leading to Improved Phase Unwrapping for Vibration Sensing. *Bernal, O. D.*, +, *JSEN Dec. 2013 4962-4971*

Laser noise

Distributed Feedback Laser Biosensor Noise Reduction. *Tan, Y.*, +, *JSEN May 2013 1972-1978*

Laser stability

A Switchable Erbium Doped Fiber Ring Laser System for Temperature Sensors Multiplexing. *Rota-Rodrigo, S.*, +, *JSEN June 2013 2279-2283*

Lead alloys

Metal-Silver Based Electrodes as Sensitive Surfaces for Electrochemical Detection of Thio-Heterocycles. *Lai-Hao, W.*, +, *JSEN Sept. 2013 3442-3448*

Lead compounds

A Tip-Tilt-Piston Micromirror With Symmetrical Lateral-Shift-Free Piezoelectric Actuators. *Liao, W.*, +, *JSEN Aug. 2013 2873-2881*

Flexible and Surface-Mountable Piezoelectric Sensor Arrays for Underwater Sensing in Marine Vehicles. *Asadnia, M.*, +, *JSEN Oct. 2013 3918-3925*

Integration of Thin Film Strain Sensors Into Hard Drives for Active Feedback Vibration Suppression. *Felix, S.*, +, *JSEN May 2013 1708-1715*

Leak detection

Improved Flexible Sensing Cable System for Leak Detection and Localization. *Shui, A.*, +, *JSEN Nov. 2013 4287-4295*

Quantum Cascade Laser-Based Sensing for Carbon Sequestration Leakage Monitoring. *Escarra, M. D.*, +, *JSEN June 2013 2348-2356*

Leakage currents

Characteristics of Flexible Thin-Film Transistors With ZnO Channels. *Ji, L.-W.*, +, *JSEN Dec. 2013 4940-4943*

InGaN/GaN Multiquantum-Well Metal-Semiconductor-Metal Photodetectors With Beta-Ga₂O₃ Cap Layers. *Huang, Z.-D.*, +, *JSEN April 2013 1187-1191*

Ratio-Based Temperature-Sensing Technique Hardened Against Nanometer Process Variations. *Iuero, P.*, +, *JSEN Feb. 2013 442-443*

Learning (artificial intelligence)

Adaptive Neuro-Fuzzy Inference System-Based Remote Bulk Soil Moisture Estimation: Using CosmOz Cosmic Ray Sensor. *Dutta, R.*, +, *JSEN June 2013 2374-2381*

An Efficient Hybrid Classification Approach for Land Use/Land Cover Analysis in a Semi-Desert Area Using ETM+ and LISS-III Sensor. *Kumar, P.*, +, *JSEN June 2013 2161-2165*

Performance Evaluation of South Esk Hydrological Sensor Web: Unsupervised Machine Learning and Semantic Linked Data Approach. *Dutta, R.*, +, *JSEN Oct. 2013 3806-3815*

SensTrack: Energy-Efficient Location Tracking With Smartphone Sensors. *Zhang, L.*, +, *JSEN Oct. 2013 3775-3784*

Towards the Implementation of IoT for Environmental Condition Monitoring in Homes. *Kelly, S. D. T.*, +, *JSEN Oct. 2013 3846-3853*

Least squares approximations

A Detailed Evaluation of the Correlation-Based Method Used for Estimation of the Brillouin Frequency Shift in BOTDA Sensors. *Farahani, M. A.*, +, *JSEN Dec. 2013 4589-4598*

Data Pattern With ECT Sensor and Its Impact on Image Reconstruction. *Yang, Y.*, +, *JSEN May 2013 1582-1593*

Fish Freshness Monitoring Using an E-Tongue Based on Polypyrrole Modified Screen-Printed Electrodes. *Apetrei, I. M.*, +, *JSEN July 2013 2548-2554*

Improvement of Odor Approximation Using Mass Spectrometry. *Nakamoto, T.*, +, *JSEN Nov. 2013 4305-4311*

New Semidefinite Relaxation Method for Acoustic Energy-Based Source Localization. *Wang, G.*, +, *JSEN May 2013 1514-1521*

Recovering Amplitudes and Phases From Saturated Multifrequency Sinusoid Signals. *Hu, C.*, +, *JSEN Nov. 2013 4569-4575*

Legendre polynomials

A Design and Assessment of a Direction Finding Proximity Fuze Sensor. *Choi, J.-H.*, +, *JSEN Aug. 2013 3079-3089*

Lens antennas

Active Millimeter Wave Sensor for Standoff Concealed Threat Detection. *Andrews, D. A.*, +, *JSEN Dec. 2013 4948-4954*

Lenses

Efficient Lens Distortion Correction for Decoupling in Calibration of Wide Angle Lens Cameras. *Ricolfe-Viala, C.*, +, *JSEN Feb. 2013 854-863*

Geometrical Analysis of Localization Error in Stereo Vision Systems. *Fooladgar, F.*, +, *JSEN Nov. 2013 4236-4246*

Vision-Based Displacement Sensor for Monitoring Dynamic Response Using Robust Object Search Algorithm. *Fukuda, Y.*, +, *JSEN Dec. 2013 4725-4732*

Level measurement

Contactless Liquid-Level Measurement With Frequency-Modulated Millimeter Wave Through Opaque Container. *Nakagawa, T.*, +, *JSEN March 2013 926-933*

Fiber Optic Bending Sensor for Water Level Monitoring: Development and Field Test: A Review. *Rosolem, J. B.*, +, *JSEN Nov. 2013 4113-4120*

Truly Nonintrusive Liquid-Level-Sensing Method Based on Lateral Displacement Effect of Light Rays. *Singh, H. K.*, +, *JSEN Feb. 2013 801-806*

Light absorption

Analysis of Integrated Optofluidic Lab-on-a-Chip Sensor Based on Refractive Index and Absorbance Sensing. *Krishnaswamy, N.*, +, *JSEN May 2013 1730-1741*

EDF-Based Edge-Filter Interrogation Scheme for FBG Sensors. *Tiwari, U.*, +, *JSEN April 2013 1315-1319*

Fiber-Optic Volumetric Sensor Based on Beer-Lambert Principle. *Husain, I.*, +, *JSEN Sept. 2013 3345-3346*

Light emitting diodes

Distributed Illumination Control With Local Sensing and Actuation in Networked Lighting Systems. *Caicedo, D.*, +, *JSEN March 2013 1092-1104*

Effects of Wavelength and Optical Path Length in Design of Fingernail Touch Force Sensing. *Abu-Khalaf, J. M.*, +, *JSEN Feb. 2013 807-815*

Hazardless Biomedical Sensing Data Transmission Using VLC. *Cheong, Y.-K.*, +, *JSEN Sept. 2013 3347-3348*

Pressure-Sensitive Sampling Wands for Homeland Security Applications. *Staymates, M. E.*, +, *JSEN Dec. 2013 4844-4850*

Light interference

A Hybrid Fiber Interferometer for Simultaneous Refractive Index and Temperature Measurements Based on Fabry-Perot/Michelson Interference. *Sun, H.*, +, *JSEN May 2013 2039-2044*

Interferometric Interrogation of the Inclination and Displacement of Tapered Fiber Mach-Zehnder Interferometers. *Chen, N.-K.*, +, *JSEN Sept. 2013 3437-3441*

Single-Mode-Multimode Fiber Structure Based Sensor for Simultaneous Measurement of Refractive Index and Temperature. *Xue, H.*, +, *JSEN Nov. 2013 4220-4223*

Light interferometers

A Hollow Core Fiber-Based Intermodal Interferometer for Measurement of Strain and Temperature. *Qi, F.*, +, *JSEN Sept. 2013 3468-3471*

All-Fiber Modal Interferometer Based on a Joint-Taper-Joint Fiber Structure for Refractive Index Sensing With High Sensitivity. *Chen, J.*, +, *JSEN July 2013 2780-2785*

Design and Analysis of an Embedded Accelerometer Coupled Self-Mixing Laser Displacement Sensor. *Zabit, U.*, +, *JSEN June 2013 2200-2207*

Humidity Sensor With a PVA-Coated Photonic Crystal Fiber Interferometer. *Li, T.*, +, *JSEN June 2013 2214-2216*

Volume Strain Sensor Based on Spectra Analysis of In-Fiber Modal Interferometer. *Xu, Z.*, +, *JSEN June 2013 2139-2145*

Light interferometry

Microsystem for Real Time High Resolution Measurement of Cell Forces. *Swierczewski, R.*, +, *JSEN May 2013 1602-1609*

Self-Mixing Interferometry With Terahertz Quantum Cascade Lasers. *Valavanis, A.*, +, *JSEN Jan. 2013 37-43*

Study of Laser Feedback Phase Under Self-Mixing Leading to Improved Phase Unwrapping for Vibration Sensing. *Bernal, O. D.*, +, *JSEN Dec. 2013 4962-4971*

Light polarization

Theory and Design of a Novel Integrated Polarimetric Sensor Utilizing a Light Sorting Metamaterial Grating. *Mandel, I.*, +, *JSEN Feb. 2013 618-625*

Light propagation

Truly Nonintrusive Liquid-Level-Sensing Method Based on Lateral Displacement Effect of Light Rays. *Singh, H. K.*, +, *JSEN Feb. 2013 801-806*

Light reflection

All Fiber-Optic Sensor for Monitoring Pressure Fluctuations in ON/OFF State. *Nath, P.*, +, *JSEN April 2013 1148-1152*

On-Chip Light Modulation Applying Optofluidic Principles. *Weber, E.*, +, *JSEN Dec. 2013 4773-4779*

Simple Fiber-Optic Refractive Index Sensor Based On Fresnel Reflection and Optical Switch. *Xu, W.*, +, *JSEN May 2013 1571-1574*

Light scattering

Iron Oxide-Gold Core-Shell Nanoparticles as Multimodal Imaging Contrast Agent. *Menichetti, L.*, +, *JSEN June 2013 2341-2347*

Light transmission

Effects of Wavelength and Optical Path Length in Design of Fingernail Touch Force Sensing. *Abu-Khalaf, J. M.*, +, *JSEN Feb. 2013 807-815*

On-Chip Light Modulation Applying Optofluidic Principles. *Weber, E.*, +, *JSEN Dec. 2013 4773-4779*

Lighting control

Design of A CMOS Intelligent Light Sensing Chip for Automatic Brightness Tuning Applications. *Chiang, C.-T.*, +, *JSEN Dec. 2013 4955-4961*

Distributed Illumination Control With Local Sensing and Actuation in Networked Lighting Systems. *Caicedo, D.*, +, *JSEN March 2013 1092-1104*

Light-Harvesting Wireless Sensors for Indoor Lighting Control. *Pandharipande, A.*, +, *JSEN Dec. 2013 4599-4606*

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A Linear Approach to Multi-Panel Sensing in Personalized Therapy for Cancer Treatment. *Baj-Rossi, C.*, +, *JSEN Dec. 2013 4860-4865*

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Comparative Study of Task Allocation Strategies in Multirobot Systems. *Hatime, H.*, +, *JSEN Jan. 2013 253-262*

Distributed Illumination Control With Local Sensing and Actuation in Networked Lighting Systems. *Caicedo, D.*, +, *JSEN March 2013 1092-1104*

Optimizing Complex Cluster Formation in MANETs Using SAT/ILP Techniques. *Zahidi, S. Z. H.*, +, *JSEN June 2013 2400-2412*

When 3G Meets VANET: 3G-Assisted Data Delivery in VANETs. *Zhao, Q.*, +, *JSEN Oct. 2013 3575-3584*

Linearization techniques

Linearization of NTC Thermistor Characteristic Using Op-Amp Based Inverting Amplifier. *Sarkar, A. R.*, +, *JSEN Dec. 2013 4621-4626*

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Planar Optical Waveguide Platform for Gas Sensing Using Liquid Crystal. *Ho, W. F.*, +, *JSEN July 2013 2521-2522*

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Flexible and Surface-Mountable Piezoelectric Sensor Arrays for Underwater Sensing in Marine Vehicles. *Asadnia, M.*, +, *JSEN Oct. 2013 3918-3925*

Liquid crystals

Planar Optical Waveguide Platform for Gas Sensing Using Liquid Crystal. *Ho, W. F.*, +, *JSEN July 2013 2521-2522*

Liquid phase deposited coatings

Porous Tin-Oxide-Coated Regenerated Cellulose as Disposable and Low-Cost Alternative Transducer for Urea Detection. *Mahadeva, S. K.*, +, *JSEN June 2013 2223-2228*

Lithium compounds

Comparison of Acoustic Wave Sensors With Different Cut LiNbO₃ Working on Pseudo-LFE Mode. *Zhang, Z.*, +, *JSEN June 2013 2109-2114*

On the Design of Video-Bandwidth Electric Field Sensing Systems Using Dielectric LiNbO₃ Electro-Optic Sensors and Optical Delays as Signal Carriers. *Gutierrez-Martinez, C.*, +, *JSEN Nov. 2013 4196-4203*

Potentialities of an Electro-Optic Crystal Fed by Nuclear Magnetic Resonance Coil for Remote and Low-Invasive Magnetic Field Characterization. *Ayde, R.*, +, *JSEN April 2013 1274-1280*

Wireless Surface Acoustic Wave Pressure and Temperature Sensor With Unique Identification Based on LiNbO_3 . *Binder, A.*, +, *JSEN May 2013 1801-1805*

Lithography

PDMS Microcantilever-Based Flow Sensor Integration for Lab-on-a-Chip. *Nezhad, A. S.*, +, *JSEN Feb. 2013 601-609*

Logic gates

Distributed Clustering With Directional Antennas for Wireless Sensor Networks. *Chen, Y.-C.*, +, *JSEN June 2013 2166-2180*

Subharmonic Mixing With Field-Effect Transistors: Theory and Experiment at 639 GHz High Above f_T . *Lisauskas, A.*, +, *JSEN Jan. 2013 124-132*

Losses

AlN/Sapphire: Promising Structure for High Temperature and High Frequency SAW Devices. *Blampain, E.*, +, *JSEN Dec. 2013 4607-4612*

Low noise amplifiers

A 768-Channel CMOS Microelectrode Array With Angle Sensitive Pixels for Neuronal Recording. *Johnson, B.*, +, *JSEN Sept. 2013 3211-3218*

A CMOS Sensor for Measurement of Cerebral Optical Coefficients Using Non-Invasive Frequency Domain Near Infrared Spectroscopy. *Shalekar, C. C.*, +, *JSEN Sept. 2013 3166-3174*

An Integrated High-Precision Probe System in 0.18- μm CMOS for Near-Field Magnetic Measurements on Cryptographic LSIs. *Mai-Khanh, N. N.*, +, *JSEN July 2013 2675-2682*

W-Band Chirp Radar Mock-Up Using a Glow Discharge Detector. *Rozban, D.*, +, *JSEN Jan. 2013 139-145*

Low-pass filters

A Bio-Inspired APS for Selective Visual Attention. *Cottini, N.*, +, *JSEN Sept. 2013 3341-3342*

Low-power electronics

A Robust Low Power Carbon Nanotube Sensor Interface Circuit in 180 nm CMOS Technology. *Ren, S.*, +, *JSEN Dec. 2013 4786-4795*

A Simple Low Power Electronic Readout for Rapid Bacteria Detection With Impedance Biosensor. *Samanta, N.*, +, *JSEN Dec. 2013 4716-4724*

Droplet-Based Sensing: Optical Microresonator Sensors Embedded in Digital Electrowetting Microfluidics Systems. *Royal, M. W.*, +, *JSEN Dec. 2013 4733-4742*

Low-Power Circuits and Energy Harvesting for Structural Health Monitoring of Bridges. *Wardlaw, J. L.*, +, *JSEN Feb. 2013 709-722*

Low-Power CMOS Smart Temperature Sensor With a Batch-Calibrated Inaccuracy of $\pm 0.25^\circ\text{C}$ ($\pm 3\sigma$) From -70°C to 130°C . *Aita, A. L.*, +, *JSEN May 2013 1840-1848*

Optimization of Voltage Doublers for Energy Harvesting Applications. *Roscoe, N. M.*, +, *JSEN Dec. 2013 4904-4911*

Transmit-Only Ultra Wide Band Body Sensors and Collision Analysis. *Keong, H. C.*, +, *JSEN May 2013 1949-1958*

Two-Directional 1-g Visual Motion Sensor Inspired by the Fly's Eye. *Rouibieu, F. L.*, +, *JSEN March 2013 1025-1035*

Luminescence

Historical-Log Recording System for Crack Opening and Growth Based on Mechanoluminescent Flexible Sensor. *Terasaki, N.*, +, *JSEN Oct. 2013 3999-4004*

Lung

Design of Pervasive Rehabilitation Monitoring for Chronic Obstructive Pulmonary Disease. *Wu, M.-F.*, +, *JSEN Nov. 2013 4413-4422*

Tidal Volume Measurement Through Non-Contact Doppler Radar With DC Reconstruction. *Massagram, W.*, +, *JSEN Sept. 2013 3397-3404*

M

Mach-Zehnder interferometers

An In-Fiber Mach-Zehnder Interferometer Based on Arc-Induced Tapers for High Sensitivity Humidity Sensing. *Shao, M.*, +, *JSEN May 2013 2026-2031*

Comparative Study of Microfiber and Side-Polished Optical Fiber Sensors for Refractometry in Microfluidics. *Dudus, A.*, +, *JSEN May 2013 1594-1601*

Highly Sensitive Curvature Sensor Using an In-Fiber Mach-Zehnder Interferometer. *Wang, R.*, +, *JSEN May 2013 1766-1770*

Inline Microfiber Mach-Zehnder Interferometer for High Temperature Sensing. *Jasim, A. A.*, +, *JSEN Feb. 2013 626-628*

Interferometric Interrogation of the Inclination and Displacement of Tapered Fiber Mach-Zehnder Interferometers. *Chen, N.-K.*, +, *JSEN Sept. 2013 3437-3441*

On the Design of Video-Bandwidth Electric Field Sensing Systems Using Dielectric LiNbO_3 Electro-Optic Sensors and Optical Delays as Signal Carriers. *Gutierrez-Martinez, C.*, +, *JSEN Nov. 2013 4196-4203*

Machine bearings

Wireless Temperature Sensor for Condition Monitoring of Bearings Operating Through Thick Metal Plates. *Gupta, L. A.*, +, *JSEN June 2013 2292-2298*

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Flash Flatness Measurement System Using Digital Dial Gauges. *Li, Q.*, +, *JSEN June 2013 2051-2052*

Novel Online Re-Calibration Method for Multi-Axis Force/Torque Sensor of ITER Welding/Machining Robot. *Roozbahani, H.*, +, *JSEN Nov. 2013 4432-4443*

Macromolecules

Highly Resolved Sub-Terahertz Vibrational Spectroscopy of Biological Macromolecules and Cells. *Globus, T.*, +, *JSEN Jan. 2013 72-79*

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An Integrated High-Precision Probe System in 0.18- μm CMOS for Near-Field Magnetic Measurements on Cryptographic LSIs. *Mai-Khanh, N. N.*, +, *JSEN July 2013 2675-2682*

Area-Efficient Three Axis MEMS Lorentz Force Magnetometer. *Rouf, V. T.*, +, *JSEN Nov. 2013 4474-4481*

Autocalibration Method for Anisotropic Magnetoresistive Sensors Using Offset Coils. *Mohamadabadi, K.*, +, *JSEN Feb. 2013 772-776*

Characterization of Magnetic Immunity of an Ironless Inductive Position Sensor. *Masi, A.*, +, *JSEN March 2013 941-948*

Compensation for Temperature-Dependence of the Faraday Effect by Optical Activity Temperature Shift. *Mihailovic, P. M.*, +, *JSEN Feb. 2013 832-837*

Harvesting Energy From Magnetic Fields to Power Condition Monitoring Sensors. *Roscoe, N. M.*, +, *JSEN June 2013 2263-2270*

Improving Performance of GMR Sensors. *Bernieri, A.*, +, *JSEN Nov. 2013 4513-4521*

Inertial Sensor Based Indoor Localization and Monitoring System for Emergency Responders. *Zhang, R.*, +, *JSEN Feb. 2013 838-848*

New Compensation Method for Cross-Axis Effect for Three-Axis AMR Sensors. *Mohamadabadi, K.*, +, *JSEN April 2013 1355-1362*

Potentialities of an Electro-Optic Crystal Fed by Nuclear Magnetic Resonant Coil for Remote and Low-Invasive Magnetic Field Characterization. *Ayde, R.*, +, *JSEN April 2013 1274-1280*

Remotely-Interrogated Three-Axis Fiber Laser Magnetometer. *Cranck, G. A.*, +, *JSEN March 2013 890-899*

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Operation-State Monitoring and Energization-Status Identification for Underground Power Cables by Magnetic Field Sensing. *Sun, X.*, +, *JSEN Nov. 2013 4527-4533*

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Harvesting Energy From Magnetic Fields to Power Condition Monitoring Sensors. *Roscoe, N. M.*, +, *JSEN June 2013 2263-2270*

Modeling of High-Frequency Electromagnetic Effects on an Ironless Inductive Position Sensor. *Danisi, A.*, +, *JSEN Dec. 2013 4663-4670*

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2-D Differential Folded Vertical Hall Device Fabricated on a P-Type Substrate Using CMOS Technology. *Sung, G.-M.*, +, *JSEN June 2013 2253-2262*

Improving Performance of GMR Sensors. *Bernieri, A.*, +, *JSEN Nov. 2013 4513-4521*

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A Magnetic Membrane Actuator in Composite Technology Utilizing Diamagnetic Levitation. *Hilber, W.*, +, *JSEN July 2013 2786-2791*

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Effectiveness of Functionalized Nanosystems for Multimodal Molecular Sensing and Imaging in Medicine. *Casciaro, S.*, +, *JSEN June 2013 2305-2312*

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Influence of Semiconductor/Metal Interface Geometry in an EMR Sensor. *Sun, J.*, +, *JSEN Feb. 2013 664-669*

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2-D Differential Folded Vertical Hall Device Fabricated on a P-Type Substrate Using CMOS Technology. *Sung, G.-M.*, +, *JSEN June 2013 2253-2262*

A Fiber Bragg Grating RMS Current Transducer Based on the Magnetostriction Effect Using a Terfenol-D Toroidal-Shaped Modulator. *Cremonezi, A. O.*, +, *JSEN Feb. 2013 683-690*

An Integrated High-Precision Probe System in 0.18- μm CMOS for Near-Field Magnetic Measurements on Cryptographic LSIs. *Mai-Khanh, N. N.*, +, *JSEN July 2013 2675-2682*

Area-Efficient Three Axis MEMS Lorentz Force Magnetometer. *Rouf, V. T.*, +, *JSEN Nov. 2013 4474-4481*

Autocalibration Method for Anisotropic Magneto-resistive Sensors Using Offset Coils. *Mohamadabadi, K.*, +, *JSEN Feb. 2013 772-776*

Characterization of Magnetic Immunity of an Ironless Inductive Position Sensor. *Masi, A.*, +, *JSEN March 2013 941-948*

Coil Optimization Method for Electromagnetic Induction Systems. *Reed, M. A.*, +, *JSEN Nov. 2013 4506-4512*

Compensation for Temperature-Dependence of the Faraday Effect by Optical Activity Temperature Shift. *Mihailovic, P. M.*, +, *JSEN Feb. 2013 832-837*

Dual-Resonant Search Coil for Natural Electromagnetic Waves in the Near-Earth Environment. *Ozaki, M.*, +, *JSEN Feb. 2013 644-650*

Frequency Response Improvement for Inertial Magneto-electric Velocity Sensor Using Frequency-Selected Compensation Network. *Chen, X.*, +, *JSEN Nov. 2013 4141-4146*

Harvesting Energy From Magnetic Fields to Power Condition Monitoring Sensors. *Roscoe, N. M.*, +, *JSEN June 2013 2263-2270*

Highly Flexible Magneto-electronic Device Integrated With Embedded Ag Nanoparticle Electrode. *Oh, S.*, +, *JSEN Oct. 2013 3957-3961*

Improving Performance of GMR Sensors. *Bernieri, A.*, +, *JSEN Nov. 2013 4513-4521*

Improving the Spatial Resolution of Magneto Resistive Sensors via Deconvolution. *Holzl, P. A.*, +, *JSEN Nov. 2013 4296-4304*

Inertial Sensor Based Indoor Localization and Monitoring System for Emergency Responders. *Zhang, R.*, +, *JSEN Feb. 2013 838-848*

Influence of Semiconductor/Metal Interface Geometry in an EMR Sensor. *Sun, J.*, +, *JSEN Feb. 2013 664-669*

New Compensation Method for Cross-Axis Effect for Three-Axis AMR Sensors. *Mohamadabadi, K.*, +, *JSEN April 2013 1355-1362*

Non-Intrusive Piston Position Measurement System Using Magnetic Field Measurements. *Taghvaeeyan, S.*, +, *JSEN Aug. 2013 3106-3114*

Output Characteristics of Two-Dimensional Spin Valve Chip. *Li, J.*, +, *JSEN Dec. 2013 4944-4947*

Potentialities of an Electro-Optic Crystal Fed by Nuclear Magnetic Resonant Coil for Remote and Low-Invasive Magnetic Field Characterization. *Ayde, R.*, +, *JSEN April 2013 1274-1280*

Recovering Amplitudes and Phases From Saturated Multifrequency Sinusoid Signals. *Hu, C.*, +, *JSEN Nov. 2013 4569-4575*

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Highly Flexible Magneto-electronic Device Integrated With Embedded Ag Nanoparticle Electrode. *Oh, S.*, +, *JSEN Oct. 2013 3957-3961*

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Highly Flexible Magneto-electronic Device Integrated With Embedded Ag Nanoparticle Electrode. *Oh, S.*, +, *JSEN Oct. 2013 3957-3961*

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Area-Efficient Three Axis MEMS Lorentz Force Magnetometer. *Rouf, V. T.*, +, *JSEN Nov. 2013 4474-4481*

Atomic-Signal-Based Zero-Field Finding Technique for Unshielded Atomic Vector Magnetometer. *Dong, H.*, +, *JSEN Jan. 2013 186-189*

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Dual-Resonant Search Coil for Natural Electromagnetic Waves in the Near-Earth Environment. *Ozaki, M.*, +, *JSEN Feb. 2013 644-650*

New Compensation Method for Cross-Axis Effect for Three-Axis AMR Sensors. *Mohamadabadi, K.*, +, *JSEN April 2013 1355-1362*

Remotely-Interrogated Three-Axis Fiber Laser Magnetometer. *Cranch, G. A.*, +, *JSEN March 2013 890-899*

Very Low 1/f Noise and Radiation-Hardened CMOS Preamplifier for High-Sensitivity Search Coil Magnetometers. *Rhouni, A.*, +, *JSEN Jan. 2013 159-166*

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Highly Flexible Magneto-electronic Device Integrated With Embedded Ag Nanoparticle Electrode. *Oh, S.*, +, *JSEN Oct. 2013 3957-3961*

Operation-State Monitoring and Energization-Status Identification for Underground Power Cables by Magnetic Field Sensing. *Sun, X.*, +, *JSEN Nov. 2013 4527-4533*

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2-D Differential Folded Vertical Hall Device Fabricated on a P-Type Substrate Using CMOS Technology. *Sung, G.-M.*, +, *JSEN June 2013 2253-2262*

A Fiber Bragg Grating RMS Current Transducer Based on the Magnetostriction Effect Using a Terfenol-D Toroidal-Shaped Modulator. *Cremonezi, A. O.*, +, *JSEN Feb. 2013 683-690*

Autocalibration Method for Anisotropic Magneto-resistive Sensors Using Offset Coils. *Mohamadabadi, K.*, +, *JSEN Feb. 2013 772-776*

Highly Flexible Magneto-electronic Device Integrated With Embedded Ag Nanoparticle Electrode. *Oh, S.*, +, *JSEN Oct. 2013 3957-3961*

Improving the Spatial Resolution of Magneto Resistive Sensors via Deconvolution. *Holzl, P. A.*, +, *JSEN Nov. 2013 4296-4304*

New Compensation Method for Cross-Axis Effect for Three-Axis AMR Sensors. *Mohamadabadi, K.*, +, *JSEN April 2013 1355-1362*

Maintenance engineering

Active Whisking-Based Remotely Deployable NDE Sensor. *Macleod, C. N.*, +, *JSEN Nov. 2013 4320-4328*

Mammography

A Robust Polynomial Filtering Framework for Mammographic Image Enhancement From Biomedical Sensors. *Bhateja, V.*, +, *JSEN Nov. 2013 4147-4156*

Manipulators

Surface EMG Based Hand Manipulation Identification Via Nonlinear Feature Extraction and Classification. *Ju, Z.*, +, *JSEN Sept. 2013 3302-3311*

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A Mote Interface for Fiber Optic Spectral Sensing With Real-Time Monitoring of the Marine Environment. *O'Connell, E.*, +, *JSEN July 2013 2619-2625*

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On Design of Collaborative Mobile Sensor Networks for Deadline-Sensitive Mobile Target Detection. *Hsu, C.-C.*, +, *JSEN Aug. 2013 2962-2972*

Mass measurement

A Novel Closed-Loop Readout Topology for Monolithically Integrated Surface Acoustic Wave Sensors. *Rakshit, S.*, +, *JSEN Nov. 2013 4264-4270*

Mass Sensing With Optomechanical Oscillation. *Liu, F.*, +, *JSEN Jan. 2013 146-147*

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Iron Oxide-Gold Core-Shell Nanoparticles as Multimodal Imaging Contrast Agent. *Menichetti, L.*, +, *JSEN June 2013 2341-2347*

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Corrosion Energy: A Novel Source to Power the Wireless Sensor. *Qiao, G.*, +, *JSEN April 2013 1141-1142*

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A Cross-Layer Judgment Scheme for Solving Retransmission Problem in IEEE 802.15.4-Based Wireless Body Sensor Networks. *Tseng, H.-W.*, +, *JSEN Aug. 2013 3124-3135*

Dynamic Calibration of Electrochemical Sensor for Accelerated Analyte Quantification. *Yang, F.*, +, *JSEN April 2013 1192-1199*

HMM-Based Human Fall Detection and Prediction Method Using Tri-Axial Accelerometer. *Tong, L.*, +, *JSEN May 2013 1849-1856*

Novel Optimization Algorithm to Demodulate a PZT-FBG Sensor in AC High Voltage Measurements. *de Assumpcao Ribeiro, B.*, +, *JSEN April 2013 1259-1264*

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New Semidefinite Relaxation Method for Acoustic Energy-Based Source Localization. *Wang, G., +, JSEN May 2013 1514-1521*

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Parallel-Data Reconstruction for Limited Views Tomography Sensors by Sinusoidal Hough Transform. *Cantoral-Ceballos, J. A., +, JSEN Feb. 2013 581-588*

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Aliasing-Free Moving Target Detection in Random Pulse Repetition Interval Radar Based on Compressed Sensing. *Liu, Z., +, JSEN July 2013 2523-2534*

Particle Filtering for Acoustic Source Tracking in Impulsive Noise With Alpha-Stable Process. *Zhong, X., +, JSEN Feb. 2013 589-600*

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A Detailed Evaluation of the Correlation-Based Method Used for Estimation of the Brillouin Frequency Shift in BOTDA Sensors. *Farahani, M. A., +, JSEN Dec. 2013 4589-4598*

Ant-Search Strategy Based on Likelihood Trail Intensity Modification for Multiple-Fault Diagnosis in Sensor Networks. *Arpaia, P., +, JSEN Jan. 2013 148-158*

Particle Filtering for Acoustic Source Tracking in Impulsive Noise With Alpha-Stable Process. *Zhong, X., +, JSEN Feb. 2013 589-600*

Maximum likelihood sequence estimation

Modeling and Estimating Simulated DNA Nanopore Translocation Signals. *Qiu, W., +, JSEN April 2013 1216-1222*

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Cancellation of Unwanted Doppler Radar Sensor Motion Using Empirical Mode Decomposition. *Mostafanezhad, I., +, JSEN May 2013 1897-1904*

Item-Level RFID Tag Location Sensing Utilizing Reader Antenna Spatial Diversity. *Shao, S., +, JSEN Oct. 2013 3767-3774*

Phase Algorithms for Reducing Axial Motion and Linearity Error in Indirect Time of Flight Cameras. *Drayton, B. M. M., +, JSEN Sept. 2013 3386-3396*

Measurement by laser beam

Concentration and Temperature Tomography at Elevated Pressures. *Wood, M. P., +, JSEN Aug. 2013 3060-3066*

Dealing With Speckle Effects in Self-Mixing Interferometry Measurements. *Atashkhoeei, R., +, JSEN May 2013 1641-1647*

Quantum Cascade Laser-Based Sensing for Carbon Sequestration Leakage Monitoring. *Escarra, M. D., +, JSEN June 2013 2348-2356*

Self-Mixing Laser Sensor for Large Displacements: Signal Recovery in the Presence of Speckle. *Zabit, U., +, JSEN Feb. 2013 824-831*

Study of Laser Feedback Phase Under Self-Mixing Leading to Improved Phase Unwrapping for Vibration Sensing. *Bernal, O. D., +, JSEN Dec. 2013 4962-4971*

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A Robust Inclinometer System With Accurate Calibration of Tilt and Azimuth Angles. *Yang, W., +, JSEN June 2013 2313-2321*

A Wireless Passive Sensor for Temperature Compensated Remote pH Monitoring. *Bhadra, S., +, JSEN June 2013 2428-2436*

Contactless Liquid-Level Measurement With Frequency-Modulated Millimeter Wave Through Opaque Container. *Nakagawa, T., +, JSEN March 2013 926-933*

Geometrical Analysis of Localization Error in Stereo Vision Systems. *Fooladgar, F., +, JSEN Nov. 2013 4236-4246*

Metrology Issues and Solutions in THz Time-Domain Spectroscopy: Noise, Errors, Calibration. *Naftaly, M., +, JSEN Jan. 2013 8-17*

One-Port De-Embedding Technique for the Quasi-Optical Characterization of Integrated Components. *Hadjiloucas, S., +, JSEN Jan. 2013 111-123*

Vision-Based Displacement Sensor for Monitoring Dynamic Response Using Robust Object Search Algorithm. *Fukuda, Y., +, JSEN Dec. 2013 4725-4732*

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Calculation Research on Infrared Radiation Characteristic on Flying Projectile in Sky-Screen. *Li, H., +, JSEN May 2013 1959-1964*

Calibration and Uncertainty Evaluation Using Monte Carlo Method of a Simple 2D Sound Localization System. *Battista, L., +, JSEN Sept. 2013 3312-3318*

Vision-Based Displacement Sensor for Monitoring Dynamic Response Using Robust Object Search Algorithm. *Fukuda, Y., +, JSEN Dec. 2013 4725-4732*

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Geometrical Analysis of Localization Error in Stereo Vision Systems. *Fooladgar, F., +, JSEN Nov. 2013 4236-4246*

Improving Performance of GMR Sensors. *Bernieri, A., +, JSEN Nov. 2013 4513-4521*

Metrology Issues and Solutions in THz Time-Domain Spectroscopy: Noise, Errors, Calibration. *Naftaly, M., +, JSEN Jan. 2013 8-17*

Mechanical contact

Embedded Flexible Force Sensor for In-Situ Tire-Road Interaction Measurements. *Zhang, Y., +, JSEN May 2013 1756-1765*

Flexible Fabric Sensor Toward a Humanoid Robot's Skin: Fabrication, Characterization, and Perceptions. *Ho, V. A., +, JSEN Oct. 2013 4065-4080*

Mechanical engineering computing

Evaluation of Electrical Capacitance Tomography Sensors for Concentric Annulus. *Ye, J., +, JSEN Feb. 2013 446-456*

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In Vivo Measurements With Robust Silicon-Based Multielectrode Arrays With Extreme Shaft Lengths. *Marton, G., +, JSEN Sept. 2013 3263-3269*

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Medical control systems

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An Innovative Strategy for Correctly Interpreting Simultaneous Acquisition of EEG Signals and fMRI Images. *Fabbiano, L., +, JSEN Sept. 2013 3175-3181*

Design of a Four-Channel Surface Receiver Coil Array Without Preamplifiers for the Decoupling Between Elements: Validation for High-Resolution Rat Knee MR Imaging. *Perrier, A.-L., +, JSEN June 2013 2450-2458*

Ocular Biometric Measurements to Diagnose Neurological Disorders Due to Wilson Disease. *Morello, R., +, JSEN Sept. 2013 3203-3210*

Medical robotics

Analysis of an MRI Compatible Force Sensor for Sensitivity and Precision. *Turkseven, M., +, JSEN Feb. 2013 476-486*

Artificial Sense of Slip—A Review. *Francomano, M. T., +, JSEN July 2013 2489-2498*

Design and Modeling of a Wide Dynamic-Range Hardness Sensor for Biological Tissue Assessment. *Zhao, S., +, JSEN Dec. 2013 4613-4620*

Physiological Tremor Estimation With Autoregressive (AR) Model and Kalman Filter for Robotics Applications. *Tatinati, S., +, JSEN Dec. 2013 4977-4985*

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Experimental Investigation of the Roles of Blood Volume and Density in Finger Photoplethysmography. *Keikhosravi, A., +, JSEN May 2013 1397-1398*

Medical signal processing

Bispectral Analysis of Transient Evoked Otoacoustic Emissions to Study Factors Influencing Cochlear Non-Linearities: Normative Data in Young Adults. *Tognola, G., +, JSEN Sept. 2013 3249-3254*

Calibration and Uncertainty Evaluation Using Monte Carlo Method of a Simple 2D Sound Localization System. *Battista, L., +, JSEN Sept. 2013 3312-3318*

Efficient Signal Conditioning Techniques for Brain Activity in Remote Health Monitoring Network. *Karthik, G. V. S., +, JSEN Sept. 2013 3276-3283*

Empirical Mode Decomposition vs. Wavelet Decomposition for the Extraction of Respiratory Signal From Single-Channel ECG: A Comparison. *Labate, D., +, JSEN July 2013 2666-2674*

Enhanced Compressibility of EEG Signal in Alzheimer's Disease Patients. *Morabito, F. C., +, JSEN Sept. 2013 3255-3262*

Entropic Measures of EEG Complexity in Alzheimer's Disease Through a Multivariate Multiscale Approach. *Labate, D., +, JSEN Sept. 2013 3284-3292*

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Multispectrum Approach in Quantitative EEG: Accuracy and Physical Effort. *Lay-Ekuakille, A., +, JSEN Sept. 2013 3331-3340*

Surface EMG Based Hand Manipulation Identification Via Nonlinear Feature Extraction and Classification. *Ju, Z., +, JSEN Sept. 2013 3302-3311*

Tidal Volume Measurement Through Non-Contact Doppler Radar With DC Reconstruction. *Massagram, W., +, JSEN Sept. 2013 3397-3404*

Wireless Medical-Embedded Systems: A Review of Signal-Processing Techniques for Classification. *Ghasemzadeh, H., +, JSEN Feb. 2013 423-437*

Wireless Surface Electromyography Probes With Four High-Speed Channels. *Imperatori, G., +, JSEN Aug. 2013 2954-2961*

Meetings

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Guest Editorial—Special Issue on Selected Papers From the 11th IEEE Sensors Conference 2012. *Fang, W., +, JSEN Aug. 2013 2809*

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Fiber Optic Bending Sensor for Water Level Monitoring: Development and Field Test: A Review. *Rosolem, J. B., +, JSEN Nov. 2013 4113-4120*

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Distributed Block Arithmetic Coding for Equiprobable Sources. *Zhou, J., +, JSEN July 2013 2750-2756*

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Distributed Block Arithmetic Coding for Equiprobable Sources. *Zhou, J., +, JSEN July 2013 2750-2756*

Metal-semiconductor-metal structures

Characterization of Low Dark-Current Lateral Amorphous-Selenium Metal-Semiconductor-Metal Photodetectors. *Abbaszadeh, S., +, JSEN May 2013 1452-1458*

InGaN/GaN Multiquantum-Well Metal-Semiconductor-Metal Photodetectors With Beta-Ga₂O₃ Cap Layers. *Huang, Z.-D., +, JSEN April 2013 1187-1191*

Metallic thin films

Constructing a Novel Asymmetric Dielectric Structure Toward the Realization of High-Performance Surface Plasmon Resonance Biosensors. *Chiu, N.-F., +, JSEN Sept. 2013 3483-3489*

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A Fully Integrated Hall Sensor Microsystem for Contactless Current Measurement. *Ajbl, A., +, JSEN June 2013 2271-2278*

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Large-Area Low-Cost Flexible Plastic Nanohole Arrays for Integrated Bio-Chemical Sensing. *Chuo, Y., +, JSEN Oct. 2013 3982-3990*

Michelson interferometers

A Hybrid Fiber Interferometer for Simultaneous Refractive Index and Temperature Measurements Based on Fabry-Perot/Michelson Interference. *Sun, H., +, JSEN May 2013 2039-2044*

Simultaneous Measurement of Refractive Index and Temperature Using a Michelson Fiber Interferometer With a Hi-Bi Fiber Probe. *Zhang, J., +, JSEN June 2013 2061-2065*

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Analysis of Integrated Optofluidic Lab-on-a-Chip Sensor Based on Refractive Index and Absorbance Sensing. *Krishnaswamy, N., +, JSEN May 2013 1730-1741*

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Isotropically Etched Silicon Microarrays for Rapid Breast Cancer Cell Capture. *Nikkhah, M., +, JSEN March 2013 1125-1132*

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A Simple Low Power Electronic Readout for Rapid Bacteria Detection With Impedance Biosensor. *Samanta, N., +, JSEN Dec. 2013 4716-4724*

Autocalibration Method for Anisotropic Magnetoresistive Sensors Using Offset Coils. *Mohamadabadi, K., +, JSEN Feb. 2013 772-776*

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- A Robust Flexible Electrochemical Gas Sensor Using Room Temperature Ionic Liquid. *Mu, X.*, +, *JSEN Oct. 2013 3976-3981*
- A Wireless Hybrid Chemical Sensor for Detection of Environmental Volatile Organic Compounds. *Chen, C.*, +, *JSEN May 2013 1748-1755*
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- Influence of Semiconductor/Metal Interface Geometry in an EMR Sensor. *Sun, J.*, +, *JSEN Feb. 2013 664-669*
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- Piezoelectric Vibratory-Cantilever Force Sensors and Axial Sensitivity Analysis for Individual Triaxial Tactile Sensing. *Yamashita, K.*, +, *JSEN March 2013 1074-1080*
- Post-CMOS and Post-MEMS Compatible Flexible Skin Technologies: A Review. *Xu, Y.*, +, *JSEN Oct. 2013 3962-3975*
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- Fabrication and Investigation of Arrayed Glucose Biosensor Based on Microfluidic Framework. *Chou, J.-C.*, +, *JSEN Nov. 2013 4180-4187*
- Interchannel Mixing Minimization in Semi-Packed Micro Gas Chromatography Columns. *Alfeeli, B.*, +, *JSEN Nov. 2013 4312-4319*
- Large-Area Low-Cost Flexible Plastic Nanohole Arrays for Integrated Bio-Chemical Sensing. *Chuo, Y.*, +, *JSEN Oct. 2013 3982-3990*
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- Microfluidic Smectite-Polymer Nanocomposite Strip Sensor for Aflatoxin Detection. *Hu, H.*, +, *JSEN May 2013 1835-1839*
- NADH-Fluorometric Biochemical Gas Sensor (Bio-Sniffer) for Evaluation of Indoor Air Quality. *Kudo, H.*, +, *JSEN Aug. 2013 2828-2833*
- PDMS Microcantilever-Based Flow Sensor Integration for Lab-on-a-Chip. *Nezhad, A. S.*, +, *JSEN Feb. 2013 601-609*
- Weak Adsorption-Induced Surface Stress for Streptavidin Binding to Biotin Tethered to Silicon Microcantilever Arrays. *Ness, S. J.*, +, *JSEN March 2013 959-968*

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- Liquid Phase Deposition Based SnO_2 Gas Sensor Integrated With TaN Heater on a Micro-Hotplate. *Chiou, J.-C.*, +, *JSEN June 2013 2466-2473*
- Sensor for Thermal Gas Analysis Based on Micromachined Silicon-Microwires. *Kliche, K.*, +, *JSEN July 2013 2626-2635*
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- Analytical Modeling of Square Microhotplate for Gas Sensing Application. *Saxena, G.*, +, *JSEN Dec. 2013 4851-4859*

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- A CMOS-MEMS Resonator Integrated System for Oscillator Application. *Pachkawade, V.*, +, *JSEN Aug. 2013 2882-2889*
- Area-Efficient Three Axis MEMS Lorentz Force Magnetometer. *Rouf, V. T.*, +, *JSEN Nov. 2013 4474-4481*
- Cantilever Resonator With Integrated Actuation and Sensing Fabricated Using a Single Step Lithography. *Mohanasundaram, S. M.*, +, *JSEN Feb. 2013 440-441*
- Four Point Probe Micro-Optical Gyroscope With Self Calibration Control. *Mitatha, S.*, +, *JSEN July 2013 2705-2710*
- MEMS Electrometer With Femtoampere Resolution for Aerosol Particulate Measurements. *Jaramillo, G.*, +, *JSEN Aug. 2013 2993-3000*
- Stability of Silicon Microelectromechanical Systems Resonant Thermometers. *Ng, E. J.*, +, *JSEN March 2013 987-993*
- Support Losses in Micromechanical Resonators Under Electrostatic and Piezoelectric Actuations. *Zhu, R.*, +, *JSEN March 2013 1105-1109*

Micromirrors

- A Tip-Tilt-Piston Micromirror With Symmetrical Lateral-Shift-Free Piezoelectric Actuators. *Liao, W.*, +, *JSEN Aug. 2013 2873-2881*
- Micro-Ball Lensed Fiber-Based Glucose Sensor. *Harun, S. W.*, +, *JSEN Jan. 2013 348-350*
- Wideband Visible Wavelength Range MEMS Fabry-Perot Tunable Filter With Highly Accurate Calibration System. *Hirokubo, N.*, +, *JSEN Aug. 2013 2930-2936*

Microorganisms

- A Portable Sensor With Disposable Electrodes for Water Bacterial Quality Assessment. *Grossi, M.*, +, *JSEN May 2013 1775-1782*
- A Simple Low Power Electronic Readout for Rapid Bacteria Detection With Impedance Biosensor. *Samanta, N.*, +, *JSEN Dec. 2013 4716-4724*
- Constructing a Novel Asymmetric Dielectric Structure Toward the Realization of High-Performance Surface Plasmon Resonance Biosensors. *Chiu, N.-F.*, +, *JSEN Sept. 2013 3483-3489*
- Highly Resolved Sub-Terahertz Vibrational Spectroscopy of Biological Macromolecules and Cells. *Globus, T.*, +, *JSEN Jan. 2013 72-79*

Microphones

- Calibration and Uncertainty Evaluation Using Monte Carlo Method of a Simple 2D Sound Localization System. *Battista, L.*, +, *JSEN Sept. 2013 3312-3318*
- Low-Complexity Hybrid Time-Frequency Audio Signal Pattern Detection. *Martalo, M.*, +, *JSEN Feb. 2013 501-509*

Microprocessor chips

- A Wireless-Transfer-Based Hydrogen Gas Sensing System With a Pd/AlGaIn/GaN Heterostructure Field-Effect Transistor (HFET). *Hsu, C.-S.*, +, *JSEN June 2013 2299-2304*

Microsensors

- A Bulk-Micromachined Fully Differential MEMS Accelerometer With Split Interdigitated Fingers. *Aydin, O.*, +, *JSEN Aug. 2013 2914-2921*
- A CMOS MEMS Capacitive Flow Sensor for Respiratory Monitoring. *Liao, S.-H.*, +, *JSEN May 2013 1401-1402*
- A Dual Probe STM Imaging System and a Low Noise Switched-Capacitor Transimpedance Amplifier. *Tang, Y.*, +, *JSEN Aug. 2013 2984-2992*
- A Micropreconcentrator Design Using Low Temperature Cofired Ceramics Technology for Acetone Detection Applications. *Rydosz, A.*, +, *JSEN May 2013 1889-1896*
- A Robust Inclinometer System With Accurate Calibration of Tilt and Azimuth Angles. *Yang, W.*, +, *JSEN June 2013 2313-2321*
- A Wireless Hybrid Chemical Sensor for Detection of Environmental Volatile Organic Compounds. *Chen, C.*, +, *JSEN May 2013 1748-1755*
- An Electromechanical System Based on Carbon Nanotube Sensors to Detect Apnea. *Liu, H.-C.*, +, *JSEN July 2013 2737-2741*

- Area-Efficient Three Axis MEMS Lorentz Force Magnetometer. *Rouf, V. T.*, +, *JSEN Nov. 2013 4474-4481*
- Cantilever Resonator With Integrated Actuation and Sensing Fabricated Using a Single Step Lithography. *Mohanasundaram, S. M.*, +, *JSEN Feb. 2013 440-441*
- Coded Corrugated Microfluidic Sidewalls for Code Division Multiplexing. *Javanmard, M.*, +, *JSEN May 2013 1399-1400*
- Comparative Study of Microfiber and Side-Polished Optical Fiber Sensors for Refractometry in Microfluidics. *Dudus, A.*, +, *JSEN May 2013 1594-1601*
- Design and Characterization of a Soft Multi-Axis Force Sensor Using Embedded Microfluidic Channels. *Vogt, D. M.*, +, *JSEN Oct. 2013 4056-4064*
- Design and Modeling of a Wide Dynamic-Range Hardness Sensor for Biological Tissue Assessment. *Zhao, S.*, +, *JSEN Dec. 2013 4613-4620*
- Doping Characteristics of Polycrystalline Silicon Deposited by Chemical Transport at Atmospheric Pressure and its Application to MEMS Sensor. *Naito, T.*, +, *JSEN Aug. 2013 2899-2905*
- Droplet-Based Sensing: Optical Microresonator Sensors Embedded in Digital Electro-wetting Microfluidics Systems. *Royal, M. W.*, +, *JSEN Dec. 2013 4733-4742*
- Flexible Sputter-Deposited Carbon Strain Sensor. *Tata, U.*, +, *JSEN Feb. 2013 444-445*
- Four Point Probe Micro-Optical Gyroscope With Self Calibration Control. *Mitatha, S.*, +, *JSEN July 2013 2705-2710*
- High Sensitivity, Miniature, Full 2-D Anemometer Based on MEMS Hot-Film Sensors. *Liu, H.-B.*, +, *JSEN May 2013 1914-1920*
- High-Efficient Chip to Wafer Self-Alignment and Bonding Applicable to MEMS-IC Flexible Integration. *Lu, J.*, +, *JSEN Feb. 2013 651-656*
- High-Performance Closed-Loop Interface Circuit for High-Q Capacitive Microaccelerometers. *Ye, Z.*, +, *JSEN May 2013 1425-1433*
- Hydrogen-Sensing Properties of a Pd/AlGaN/GaN-Based Field-Effect Transistor Under a Nitrogen Ambience. *Hsu, C.-S.*, +, *JSEN May 2013 1787-1793*
- Improvement of Odor Blender Using Electroosmotic Pumps and SAW Atomizer for Low-Volatile Scents. *Ariyakul, Y.*, +, *JSEN Dec. 2013 4918-4923*
- Influence of Semiconductor/Metal Interface Geometry in an EMR Sensor. *Sun, J.*, +, *JSEN Feb. 2013 664-669*
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- Integrated Long-Range Thermal Bimorph Actuators for Parallelizable Bio-AFM Applications. *Henriksson, J.*, +, *JSEN Aug. 2013 2849-2856*
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- Liquid Phase Deposition Based SnO₂ Gas Sensor Integrated With TaN Heater on a Micro-Hotplate. *Chiou, J.-C.*, +, *JSEN June 2013 2466-2473*
- Low Power Wireless Sensor Network for Building Monitoring. *Torfs, T.*, +, *JSEN March 2013 909-915*
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- Metal-Silver Based Electrodes as Sensitive Surfaces for Electrochemical Detection of Thio-Heterocycles. *Lai-Hao, W.*, +, *JSEN Sept. 2013 3442-3448*
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- Microfluidic Smectite-Polymer Nanocomposite Strip Sensor for Aflatoxin Detection. *Hu, H.*, +, *JSEN May 2013 1835-1839*
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- Weak Adsorption-Induced Surface Stress for Streptavidin Binding to Biotin Tethered to Silicon Microcantilever Arrays. *Ness, S. J.*, +, *JSEN March 2013 959-968*
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- Microwave detectors**
- A Microwave Resonant Sensor for Concentration Measurements of Liquid Solutions. *Gennarelli, G.*, +, *JSEN May 2013 1857-1864*
- Design of a Coplanar Sensor for RF Characterization of Thin Dielectric Samples. *Shete, M.*, +, *JSEN Dec. 2013 4706-4715*
- Design of Highly Selective Metamaterials for Sensing Platforms. *Song, K.*, +, *JSEN Sept. 2013 3377-3385*
- Displacement Sensor Based on Diamond-Shaped Tapered Split Ring Resonator. *Horestani, A. K.*, +, *JSEN April 2013 1153-1160*
- Microwave Displacement Sensor for Hydraulic Devices. *Fericean, S.*, +, *JSEN Dec. 2013 4682-4689*
- Precise Moisture Monitoring for Various Soil Types Using Handheld Microwave-Sensor Meter. *You, K. Y.*, +, *JSEN July 2013 2563-2570*
- Tidal Volume Measurement Through Non-Contact Doppler Radar With DC Reconstruction. *Massagram, W.*, +, *JSEN Sept. 2013 3397-3404*
- Microwave measurement**
- A Microwave Resonant Sensor for Concentration Measurements of Liquid Solutions. *Gennarelli, G.*, +, *JSEN May 2013 1857-1864*
- Cooperative Robotic Structure Mapping Using Wireless Measurements—A Comparison of Random and Coordinated Sampling Patterns. *Gonzalez-Ruiz, A.*, +, *JSEN July 2013 2571-2580*
- Displacement Sensor Based on Diamond-Shaped Tapered Split Ring Resonator. *Horestani, A. K.*, +, *JSEN April 2013 1153-1160*
- Microwave Nondestructive Testing of Wood Anisotropy and Scatter. *Bogovanovic, M.*, +, *JSEN Jan. 2013 306-313*
- Microwave metamaterials**
- Design of Highly Selective Metamaterials for Sensing Platforms. *Song, K.*, +, *JSEN Sept. 2013 3377-3385*
- Microwave mixers**
- W-Band Chirp Radar Mock-Up Using a Glow Discharge Detector. *Rozban, D.*, +, *JSEN Jan. 2013 139-145*

Microwave photonics

- Phase-Sensitive Terahertz Self-Heterodyne System Based on Photodiode and Low-Temperature-Grown GaAs Photoconductor at 1.55 μm . *Hisatake, S.*, +, *JSEN Jan. 2013 31-36*
- Self-Mixing Interferometry With Terahertz Quantum Cascade Lasers. *Valavanis, A.*, +, *JSEN Jan. 2013 37-43*

Microwave resonators

- Displacement Sensor Based on Diamond-Shaped Tapered Split Ring Resonator. *Horestani, A. K.*, +, *JSEN April 2013 1153-1160*

Military aircraft

- A Design and Assessment of a Direction Finding Proximity Fuze Sensor. *Choi, J.-H.*, +, *JSEN Aug. 2013 3079-3089*

Military systems

- Sensing the Thermal History of High-Explosive Detonations Using Thermoluminescent Microparticles. *Mah, M. L.*, +, *JSEN May 2013 1742-1747*

Millimeter wave antennas

- Active Millimeter Wave Sensor for Standoff Concealed Threat Detection. *Andrews, D. A.*, +, *JSEN Dec. 2013 4948-4954*

Millimeter wave detectors

- Contactless Liquid-Level Measurement With Frequency-Modulated Millimeter Wave Through Opaque Container. *Nakagawa, T.*, +, *JSEN March 2013 926-933*
- Portable Passive Millimeter-Wave Sensor for Detecting Concealed Weapons and Explosives Hidden on a Human Body. *Kapilevich, B.*, +, *JSEN Nov. 2013 4224-4228*
- Sensitivity of Asymmetrically Necked Planar Millimeter-Wave Detectors. *Kancleris, Z.*, +, *JSEN April 2013 1143-1147*

Millimeter wave diodes

- Sensitivity of Asymmetrically Necked Planar Millimeter-Wave Detectors. *Kancleris, Z.*, +, *JSEN April 2013 1143-1147*

Millimeter wave measurement

- Contactless Liquid-Level Measurement With Frequency-Modulated Millimeter Wave Through Opaque Container. *Nakagawa, T.*, +, *JSEN March 2013 926-933*
- Phase-Sensitive Terahertz Self-Heterodyne System Based on Photodiode and Low-Temperature-Grown GaAs Photoconductor at 1.55 μm . *Hisatake, S.*, +, *JSEN Jan. 2013 31-36*

Millimeter wave mixers

- W-Band Chirp Radar Mock-Up Using a Glow Discharge Detector. *Rozban, D.*, +, *JSEN Jan. 2013 139-145*

Millimeter wave radar

- Active Millimeter Wave Sensor for Standoff Concealed Threat Detection. *Andrews, D. A.*, +, *JSEN Dec. 2013 4948-4954*

MIMO radar

- Phase-MIMO Radar With Frequency Diversity for Range-Dependent Beamforming. *Wang, W.-Q.*, +, *JSEN April 2013 1320-1328*

Mirrors

- A Calibration Method for Eye-Gaze Estimation Systems Based on 3D Geometrical Optics. *Lee, H.*, +, *JSEN Sept. 2013 3219-3225*
- All Fiber-Optic Sensor for Monitoring Pressure Fluctuations in ON/OFF State. *Nath, P.*, +, *JSEN April 2013 1148-1152*
- Design Evaluation of a High Birefringence Single Mode Optical Fiber-Based Sensor for Lateral Pressure Monitoring Applications. *Karimi, M.*, +, *JSEN Nov. 2013 4459-4464*
- Liquid Refractive Index Sensor Based on a Polarization-Maintaining Fiber Loop Mirror. *Wang, J.*, +, *JSEN May 2013 1721-1724*

MIS devices

- Study on a Metal-Insulator-Silicon Hydrogen Sensor With LaTiON as Gate Insulator. *Yu, J.*, +, *JSEN May 2013 1534-1540*

Mixed analog-digital integrated circuits

- Two-Stage Interface Circuit Design for a 32-Color Resolution Optical Sensor. *Assaad, M.*, +, *JSEN Feb. 2013 610-617*

Mixtures

- Isotropically Etched Silicon Microarrays for Rapid Breast Cancer Cell Capture. *Nikkhah, M.*, +, *JSEN March 2013 1125-1132*

Mobile ad hoc networks

- Convergence of MANET and WSN in IoT Urban Scenarios. *Bellavista, P.*, +, *JSEN Oct. 2013 3558-3567*
- High Stable Power Aware Multicast Algorithm for Mobile Ad Hoc Networks. *Varaprasad, G.*, +, *JSEN May 2013 1442-1446*
- Optimizing Complex Cluster Formation in MANETs Using SAT/ILP Techniques. *Zahidi, S. Z. H.*, +, *JSEN June 2013 2400-2412*

Mobile computing

- Sensing as a Service: Challenges, Solutions and Future Directions. *Sheng, X.*, +, *JSEN Oct. 2013 3733-3741*
- SensTrack: Energy-Efficient Location Tracking With Smartphone Sensors. *Zhang, L.*, +, *JSEN Oct. 2013 3775-3784*

Mobile handsets

- Capacitive Sensing of Antenna Loading With an R-C Voltage Divider in a Tunable Antenna. *Huttunen, A.*, +, *JSEN Feb. 2013 849-853*

Mobile radio

- On Design of Collaborative Mobile Sensor Networks for Deadline-Sensitive Mobile Target Detection. *Hsu, C.-C.*, +, *JSEN Aug. 2013 2962-2972*
- Path Planning Algorithm for Mobile Anchor-Based Localization in Wireless Sensor Networks. *Ou, C.-H.*, +, *JSEN Feb. 2013 466-475*

Mobile robots

- A Stereo Vision-Based Self-Localization System. *Chiang, J.-S.*, +, *JSEN May 2013 1677-1689*
- Cooperative Robotic Structure Mapping Using Wireless Measurements—A Comparison of Random and Coordinated Sampling Patterns. *Gonzalez-Ruiz, A.*, +, *JSEN July 2013 2571-2580*
- Customized Ultra High Frequency Radio Frequency Identification Tags and Reader Antennas Enabling Reliable Mobile Robot Navigation. *Catarinucci, L.*, +, *JSEN Feb. 2013 783-791*
- Discrete-Time H_∞ Filtering for Mobile Robot Localization Using Wireless Sensor Network. *Hur, H.*, +, *JSEN Jan. 2013 245-252*

Mobility management (mobile radio)

- Intra-Mobility Support Solutions for Healthcare Wireless Sensor Networks—Handover Issues. *Caldeira, J. M. L. P.*, +, *JSEN Nov. 2013 4339-4348*
- SensTrack: Energy-Efficient Location Tracking With Smartphone Sensors. *Zhang, L.*, +, *JSEN Oct. 2013 3775-3784*

Modal analysis

- All-Metal Optical Fiber Accelerometer With Low Transverse Sensitivity for Seismic Monitoring. *Jiang, D.*, +, *JSEN Nov. 2013 4556-4560*
- Spectral Analysis of Vibratory Gyro Noise. *Kim, D.*, +, *JSEN Nov. 2013 4361-4374*

Modules

- Rough-Set-Based Feature Selection and Classification for Power Quality Sensing Device Employing Correlation Techniques. *Dalai, S.*, +, *JSEN Feb. 2013 563-573*

Moisture measurement

- Precise Moisture Monitoring for Various Soil Types Using Handheld Microwave-Sensor Meter. *You, K. Y.*, +, *JSEN July 2013 2563-2570*

Molecular beam epitaxial growth

- Long Wavelength Low Temperature Grown GaAs and InP-Based Terahertz Photoconductors Devices. *Missous, M.*, +, *JSEN Jan. 2013 63-71*

Molecular biophysics

- Constructing a Novel Asymmetric Dielectric Structure Toward the Realization of High-Performance Surface Plasmon Resonance Biosensors. *Chiu, N.-F.*, +, *JSEN Sept. 2013 3483-3489*
- Detection of Transplant Rejection Chemokine Protein Biomarker in Physiological Salt Concentration. *Tulip, F. S.*, +, *JSEN Feb. 2013 438-439*
- Distributed Feedback Laser Biosensor Noise Reduction. *Tan, Y.*, +, *JSEN May 2013 1972-1978*
- Droplet-Based Sensing: Optical Microresonator Sensors Embedded in Digital Electrowetting Microfluidics Systems. *Royal, M. W.*, +, *JSEN Dec. 2013 4733-4742*
- Evaluation of Oxidized-Low-Density Lipoproteins Using Kelvin Force Microscopy. *Takeda, S.*, +, *JSEN Sept. 2013 3449-3453*
- Highly Resolved Sub-Terahertz Vibrational Spectroscopy of Biological Macromolecules and Cells. *Globus, T.*, +, *JSEN Jan. 2013 72-79*
- Highly Sensitive Lateral Field Excited Piezoelectric Film Acoustic Enzyme Biosensor. *Chen, D.*, +, *JSEN June 2013 2217-2222*
- Iron Oxide-Gold Core-Shell Nanoparticles as Multimodal Imaging Contrast Agent. *Menichetti, L.*, +, *JSEN June 2013 2341-2347*
- Modeling and Estimating Simulated DNA Nanopore Translocation Signals. *Qiu, W.*, +, *JSEN April 2013 1216-1222*
- Weak Adsorption-Induced Surface Stress for Streptavidin Binding to Biotin Tethered to Silicon Microcantilever Arrays. *Ness, S. J.*, +, *JSEN March 2013 959-968*
- Modeling and Estimating Simulated DNA Nanopore Translocation Signals. *Qiu, W.*, +, *JSEN April 2013 1216-1222*

Molecular dynamics method

Modeling and Estimating Simulated DNA Nanopore Translocation Signals. *Qiu, W.*, +, *JSEN April 2013 1216-1222*

Monitoring

“On-the-Fly” Monitoring With a Single-Shot Terahertz Time-Domain Spectrometer. *Jeunesse, P.*, +, *JSEN Jan. 2013 44-49*
 All Fiber-Optic Sensor for Monitoring Pressure Fluctuations in ON/OFF State. *Nath, P.*, +, *JSEN April 2013 1148-1152*
 Fiber Optic Bending Sensor for Water Level Monitoring: Development and Field Test: A Review. *Rosolem, J. B.*, +, *JSEN Nov. 2013 4113-4120*
 High Sensitivity, Miniature, Full 2-D Anemometer Based on MEMS Hot-Film Sensors. *Liu, H.-B.*, +, *JSEN May 2013 1914-1920*
 Inertial Sensor Based Indoor Localization and Monitoring System for Emergency Responders. *Zhang, R.*, +, *JSEN Feb. 2013 838-848*
 Low Power Wireless Sensor Network for Building Monitoring. *Torfs, T.*, +, *JSEN March 2013 909-915*

Monolayers

Detection of Transplant Rejection Chemokine Protein Biomarker in Physiological Salt Concentration. *Tulip, F. S.*, +, *JSEN Feb. 2013 438-439*
 High-Efficient Chip to Wafer Self-Alignment and Bonding Applicable to MEMS-IC Flexible Integration. *Lu, J.*, +, *JSEN Feb. 2013 651-656*
 Terpene Detection Based on Localized Surface Plasma Resonance of Thiolate-Modified Au Nanoparticles. *Chen, B.*, +, *JSEN April 2013 1307-1314*

Monolithic integrated circuits

A Novel Closed-Loop Readout Topology for Monolithically Integrated Surface Acoustic Wave Sensors. *Rakshit, S.*, +, *JSEN Nov. 2013 4264-4270*
 Investigations on an Ultra-Thin Bendable Monolithic Si CMOS Image Sensor. *Dogiamis, G. C.*, +, *JSEN Oct. 2013 3892-3900*

Monopole antennas

Capacitive Sensing of Antenna Loading With an R–C Voltage Divider in a Tunable Antenna. *Huttunen, A.*, +, *JSEN Feb. 2013 849-853*

Monte Carlo methods

Calibration and Uncertainty Evaluation Using Monte Carlo Method of a Simple 2D Sound Localization System. *Battista, L.*, +, *JSEN Sept. 2013 3312-3318*
 Power Constrained Partially Coherent Distributed Detection Over Fading Multiaccess Channels. *Xu, Z.*, +, *JSEN July 2013 2729-2736*
 Sensor Fusion and Target Tracking Using Evidential Data Association. *Dallil, A.*, +, *JSEN Jan. 2013 285-293*

MOSFET

2-D Differential Folded Vertical Hall Device Fabricated on a P-Type Substrate Using CMOS Technology. *Sung, G.-M.*, +, *JSEN June 2013 2253-2262*
 Design and Characterization of High-Voltage NMOS Structures in a 0.5 μm Standard CMOS Process. *Lee, T.-H.*, +, *JSEN Aug. 2013 2906-2913*
 Photodetection With Gate-Controlled Lateral BJTs From Standard CMOS Technology. *Campos, F. S.*, +, *JSEN May 2013 1554-1563*
 Ratio-Based Temperature-Sensing Technique Hardened Against Nanometer Process Variations. *Ituero, P.*, +, *JSEN Feb. 2013 442-443*

Motion compensation

Cancellation of Unwanted Doppler Radar Sensor Motion Using Empirical Mode Decomposition. *Mostafanezhad, I.*, +, *JSEN May 2013 1897-1904*

Motion estimation

High-Resolution Touch Floor System Using Particle Swarm Optimization Neural Network. *Kim, H.*, +, *JSEN June 2013 2084-2093*
 Two-Directional 1-g Visual Motion Sensor Inspired by the Fly’s Eye. *Roubieu, F. L.*, +, *JSEN March 2013 1025-1035*

Motion measurement

An Attachable Clothing Sensor System for Measuring Knee Joint Angles. *Bergmann, J. H. M.*, +, *JSEN Oct. 2013 4090-4097*
 Development of a Non-Contact Sensing Method for Scratching Activity Measurement. *Kurihara, Y.*, +, *JSEN Sept. 2013 3325-3330*

Molding

Use of Tapered Optical Fiber Sensors in Study of the Hydration Process of Cement Paste. *Luo, D.*, +, *JSEN Sept. 2013 3415-3420*

Multi-access systems

Query-Driven Tracing for a Multiuser Scenario in Wireless Sensor Networks. *Liu, X.*, +, *JSEN Aug. 2013 3016-3024*

Multi-robot systems

A Stereo Vision-Based Self-Localization System. *Chiang, J.-S.*, +, *JSEN May 2013 1677-1689*
 Comparative Study of Task Allocation Strategies in Multirobot Systems. *Hatime, H.*, +, *JSEN Jan. 2013 253-262*

Multicast communication

High Stable Power Aware Multicast Algorithm for Mobile Ad Hoc Networks. *Varaprasad, G.*, +, *JSEN May 2013 1442-1446*

Multicast protocols

Mobicast Routing Protocol for Underwater Sensor Networks. *Chen, Y.-S.*, +, *JSEN Feb. 2013 737-749*

Multilayer perceptrons

Adaptive Neuro-Fuzzy Inference System-Based Remote Bulk Soil Moisture Estimation: Using CosmOz Cosmic Ray Sensor. *Dutta, R.*, +, *JSEN June 2013 2374-2381*

Multimedia communication

Coverage-Enhancing Algorithm Based on Overlap-Sense Ratio in Wireless Multimedia Sensor Networks. *Chen, J.*, +, *JSEN June 2013 2077-2083*
 Quality-Driven Energy-Neutralized Power and Relay Selection for Smart Grid Wireless Multimedia Sensor Based IoTs. *Yao, R.*, +, *JSEN Oct. 2013 3637-3644*

Multiplexing equipment

A Switchable Erbium Doped Fiber Ring Laser System for Temperature Sensors Multiplexing. *Rota-Rodrigo, S.*, +, *JSEN June 2013 2279-2283*

Multiwave mixing

Phase-Sensitive Terahertz Self-Heterodyne System Based on Photodiode and Low-Temperature-Grown GaAs Photoconductor at 1.55 μm . *Hisatake, S.*, +, *JSEN Jan. 2013 31-36*

Muscle

Mechanomyography Sensor Development, Related Signal Processing, and Applications: A Systematic Review. *Islam, M. A.*, +, *JSEN July 2013 2499-2516*

N**Nanobiotechnology**

Amperometric Acetylcholinesterase Biosensor Based on O-Carboxymethyl Chitosan-Gold Nanoparticle Nanocomposite by In-Situ Synthesis Method. *Sun, X.*, +, *JSEN Jan. 2013 172-179*

Nanocomposites

A Flexible Multifunctional Sensor Based on Carbon Nanotube/Polyurethane Composite. *Slobodian, P.*, +, *JSEN Oct. 2013 4045-4048*
 A Wide Range Conductometric pH Sensor Made With Titanium Dioxide/Multiwall Carbon Nanotube/Cellulose Hybrid Nanocomposite. *Chen, Y.*, +, *JSEN Nov. 2013 4157-4162*
 Amperometric Acetylcholinesterase Biosensor Based on O-Carboxymethyl Chitosan-Gold Nanoparticle Nanocomposite by In-Situ Synthesis Method. *Sun, X.*, +, *JSEN Jan. 2013 172-179*
 Friction in Totally Optical Robotic Finger Oriented on Shear Force Measurement. *Massaro, A.*, +, *JSEN Feb. 2013 548-555*
 Ion Sensor for the Quantification of Sodium in Sweat Samples. *Wujcik, E. K.*, +, *JSEN Sept. 2013 3430-3436*
 Microfluidic Smectite-Polymer Nanocomposite Strip Sensor for Aflatoxin Detection. *Hu, H.*, +, *JSEN May 2013 1835-1839*
 Polypropylene-Carbon Nanofiber Composites as Strain-Gauge Sensor. *Rocha, J. G.*, +, *JSEN July 2013 2603-2609*
 Porous Tin-Oxide-Coated Regenerated Cellulose as Disposable and Low-Cost Alternative Transducer for Urea Detection. *Mahadeva, S. K.*, +, *JSEN June 2013 2223-2228*
 Room Temperature Methane Sensor Based on Graphene Nanosheets/Polyaniline Nanocomposite Thin Film. *Wu, Z.*, +, *JSEN Feb. 2013 777-782*

Nanofabrication
 $\beta\text{-Ga}_2\text{O}_3$ Nanowires-Based Humidity Sensors Prepared on GaN/Sapphire Substrate. *Tsai, T.-Y.*, +, *JSEN Dec. 2013 4891-4896*
 Fiber-Optic Refractive Index Sensor Based on the Cone-Based Round Structure. *Jeong, H.-H.*, +, *JSEN Jan. 2013 351-358*
 Infrared Camera Using a Single Nano-Photodetector. *Chen, H.*, +, *JSEN March 2013 949-958*
 Iron Oxide-Gold Core-Shell Nanoparticles as Multimodal Imaging Contrast Agent. *Menichetti, L.*, +, *JSEN June 2013 2341-2347*
 Multi-Walled Carbon Nanotubes/Graphene Oxide Composites for Humidity Sensing. *Li, X.*, +, *JSEN Dec. 2013 4749-4756*
 Polypropylene-Carbon Nanofiber Composites as Strain-Gauge Sensor. *Rocha, J. G.*, +, *JSEN July 2013 2603-2609*
 Terpene Detection Based on Localized Surface Plasma Resonance of Thiolate-Modified Au Nanoparticles. *Chen, B.*, +, *JSEN April 2013 1307-1314*

Nanofibers

Polypropylene-Carbon Nanofiber Composites as Strain-Gauge Sensor. *Rocha, J. G.*, +, *JSEN July 2013 2603-2609*

Nanolithography

Cantilever Resonator With Integrated Actuation and Sensing Fabricated Using a Single Step Lithography. *Mohanasundaram, S. M.*, +, *JSEN Feb. 2013 440-441*

Nanomedicine

Iron Oxide-Gold Core-Shell Nanoparticles as Multimodal Imaging Contrast Agent. *Menichetti, L.*, +, *JSEN June 2013 2341-2347*

The Novel Carbon Nanomaterials Electrochemical Sensor for Determination of Trace Aluminum in Human Body Fluids With 8-Hydroxyquinoline. *Tang, Y.-Z.*, +, *JSEN Sept. 2013 3270-3275*

Nanoparticles

Amperometric Acetylcholinesterase Biosensor Based on O-Carboxymethyl Chitosan-Gold Nanoparticle Nanocomposite by In-Situ Synthesis Method. *Sun, X.*, +, *JSEN Jan. 2013 172-179*

Carbon Nanotubes With Adsorbed Au for Sensing Gas. *Lin, Z.-D.*, +, *JSEN June 2013 2423-2427*

Fiber-Optic Refractive Index Sensor Based on the Cone-Based Round Structure. *Jeong, H.-H.*, +, *JSEN Jan. 2013 351-358*

Highly Flexible Magneto-electronic Device Integrated With Embedded Ag Nanoparticle Electrode. *Oh, S.*, +, *JSEN Oct. 2013 3957-3961*

Integration of f-MWCNT Sensor and Printed Circuits on Paper Substrate. *Xie, L.*, +, *JSEN Oct. 2013 3948-3956*

Iron Oxide-Gold Core-Shell Nanoparticles as Multimodal Imaging Contrast Agent. *Menichetti, L.*, +, *JSEN June 2013 2341-2347*

Optical Detection of Lead(II) Ions Using DNA-Based Nanosensor. *Breneman, K. L.*, +, *JSEN May 2013 1783-1786*

Sensitive Detection of Nitroaromatics With Colloidal Conjugated Polymer Nanoparticles. *Satapathi, S.*, +, *JSEN June 2013 2329-2333*

SPR-Based Optical Fiber Sensors Using Gold-Silver Alloy Particles as the Active Sensing Material. *Tu, H.*, +, *JSEN June 2013 2192-2199*

Terpene Detection Based on Localized Surface Plasma Resonance of Thiolate-Modified Au Nanoparticles. *Chen, B.*, +, *JSEN April 2013 1307-1314*

Vapor Discrimination With Single- and Multitransducer Arrays of Nanoparticle-Coated Chemiresistors and Resonators. *Scholten, K.*, +, *JSEN June 2013 2146-2154*

Nanoporous materials

Modeling and Estimating Simulated DNA Nanopore Translocation Signals. *Qiu, W.*, +, *JSEN April 2013 1216-1222*

Study of Digital Dissolved Oxygen Analytical Sensor of ppb-Level. *Qi, X.*, +, *JSEN Nov. 2013 4279-4286*

Nanorods

Assembly of Gold Nanorods for Highly Sensitive Detection of Mercury Ions. *Placido, T.*, +, *JSEN Aug. 2013 2834-2841*

High Dynamic Range Methanol Sensor Based on Aligned ZnO Nanorods. *Banerjee, N.*, +, *JSEN May 2013 1669-1676*

Low-Frequency Noise Characteristics of ZnO Nanorods Schottky Barrier Photodetectors. *Chen, T.-P.*, +, *JSEN June 2013 2115-2119*

Nanosensors

β -Ga₂O₃ Nanowires-Based Humidity Sensors Prepared on GaN/Sapphire Substrate. *Tsai, T.-Y.*, +, *JSEN Dec. 2013 4891-4896*

WO₃ Hydrogen Resistive Gas Sensor and Its Wide-Range Current-Mode Electronic Read-Out Circuit. *De Marcellis, A.*, +, *JSEN July 2013 2792-2798*

A Robust Low Power Carbon Nanotube Sensor Interface Circuit in 180 nm CMOS Technology. *Ren, S.*, +, *JSEN Dec. 2013 4786-4795*

A Wide Range Conductometric pH Sensor Made With Titanium Dioxide/Multiwall Carbon Nanotube/Cellulose Hybrid Nanocomposite. *Chen, Y.*, +, *JSEN Nov. 2013 4157-4162*

Carbon Nanotubes With Adsorbed Au for Sensing Gas. *Lin, Z.-D.*, +, *JSEN June 2013 2423-2427*

High Dynamic Range Methanol Sensor Based on Aligned ZnO Nanorods. *Banerjee, N.*, +, *JSEN May 2013 1669-1676*

Infrared Camera Using a Single Nano-Photodetector. *Chen, H.*, +, *JSEN March 2013 949-958*

Integration of f-MWCNT Sensor and Printed Circuits on Paper Substrate. *Xie, L.*, +, *JSEN Oct. 2013 3948-3956*

Ion Sensor for the Quantification of Sodium in Sweat Samples. *Wujcik, E. K.*, +, *JSEN Sept. 2013 3430-3436*

Iron Oxide-Gold Core-Shell Nanoparticles as Multimodal Imaging Contrast Agent. *Menichetti, L.*, +, *JSEN June 2013 2341-2347*

Large-Area Low-Cost Flexible Plastic Nanohole Arrays for Integrated Bio-Chemical Sensing. *Chuo, Y.*, +, *JSEN Oct. 2013 3982-3990*

Microfluidic Smectite-Polymer Nanocomposite Strip Sensor for Aflatoxin Detection. *Hu, H.*, +, *JSEN May 2013 1835-1839*

Optical Detection of Lead(II) Ions Using DNA-Based Nanosensor. *Breneman, K. L.*, +, *JSEN May 2013 1783-1786*

Polypropylene-Carbon Nanofiber Composites as Strain-Gauge Sensor. *Rocha, J. G.*, +, *JSEN July 2013 2603-2609*

Porous Tin-Oxide-Coated Regenerated Cellulose as Disposable and Low-Cost Alternative Transducer for Urea Detection. *Mahadeva, S. K.*, +, *JSEN June 2013 2223-2228*

Quantum-Dot-Based Aptamer Beacons for K⁺ Detection. *Wu, T.-C.*, +, *JSEN May 2013 1549-1553*

Remote System for Monitoring Animal Models With Single-Metabolite Bio-Nano-Sensors. *Carrara, S.*, +, *JSEN March 2013 1018-1024*

Room Temperature Methane Sensor Based on Graphene Nanosheets/Polyaniline Nanocomposite Thin Film. *Wu, Z.*, +, *JSEN Feb. 2013 777-782*

Sensitive Detection of Nitroaromatics With Colloidal Conjugated Polymer Nanoparticles. *Satapathi, S.*, +, *JSEN June 2013 2329-2333*

Study of Digital Dissolved Oxygen Analytical Sensor of ppb-Level. *Qi, X.*, +, *JSEN Nov. 2013 4279-4286*

SWNT Based Nanosensors for Wireless Detection of Explosives and Chemical Warfare Agents. *Liu, Y.*, +, *JSEN Jan. 2013 202-210*

Terahertz Detection With Nanoscale Semiconductor Rectifiers. *Chen, R.*, +, *JSEN Jan. 2013 24-30*

Terpene Detection Based on Localized Surface Plasma Resonance of Thiolate-Modified Au Nanoparticles. *Chen, B.*, +, *JSEN April 2013 1307-1314*

Nanostructured materials

WO₃ Hydrogen Resistive Gas Sensor and Its Wide-Range Current-Mode Electronic Read-Out Circuit. *De Marcellis, A.*, +, *JSEN July 2013 2792-2798*

Effectiveness of Functionalized Nanosystems for Multimodal Molecular Sensing and Imaging in Medicine. *Casciaro, S.*, +, *JSEN June 2013 2305-2312*

Effects of Al(III) and Nano-Al₁₃ on Aldehyde Dehydrogenase Activity on Reduced Graphene Oxide Modified Electrode. *Li, L.*, +, *JSEN Jan. 2013 314-320*

Influence of Substrate Temperature on H₂S Gas Sensing Properties of Nanocrystalline Zinc Oxide Thin Films Prepared by Advanced Spray Pyrolysis. *Shewale, P. S.*, +, *JSEN May 2013 1992-1998*

Nanotube devices

A Robust Low Power Carbon Nanotube Sensor Interface Circuit in 180 nm CMOS Technology. *Ren, S.*, +, *JSEN Dec. 2013 4786-4795*

Nanowires

β -Ga₂O₃ Nanowires-Based Humidity Sensors Prepared on GaN/Sapphire Substrate. *Tsai, T.-Y.*, +, *JSEN Dec. 2013 4891-4896*

Ga₂O₃ Nanowire Photodetector Prepared on SiO₂/Si Template. *Wu, Y. L.*, +, *JSEN June 2013 2368-2373*

Nitro-Aromatic Explosive Sensing Using GaN Nanowire-Titania Nanocluster Hybrids. *Aluri, G. S.*, +, *JSEN May 2013 1883-1888*

National security

Pressure-Sensitive Sampling Wands for Homeland Security Applications. *Staymates, M. E.*, +, *JSEN Dec. 2013 4844-4850*

Navigation

2-D Thermal Velocity Sensor for Submersible Navigation and Minute Flow Measurements. *Palmer, K.*, +, *JSEN Jan. 2013 359-370*

A Stereo Vision-Based Self-Localization System. *Chiang, J.-S.*, +, *JSEN May 2013 1677-1689*

Negative ions

New Potentiometric Carbon Paste Electrode for Determination of Reactive Yellow 160 Dye Concentration in Textile Wastewater. *Ghalwa, N. A.*, +, *JSEN Dec. 2013 4757-4763*

Network analyzers

Displacement Sensor Based on Diamond-Shaped Tapered Split Ring Resonator. *Horestani, A. K.*, +, *JSEN April 2013 1153-1160*

Network coding

Data Persistency in Wireless Sensor Networks Using Distributed Luby Transform Codes. *Jafarizadeh, S.*, +, *JSEN Dec. 2013 4880-4890*

Network synthesis

A Wireless-Transfer-Based Hydrogen Gas Sensing System With a Pd/AlGaIn/GaN Heterostructure Field-Effect Transistor (HFET). *Hsu, C.-S.*, +, *JSEN June 2013 2299-2304*

Selecting Single Photon Avalanche Diode (SPAD) Passive-Quenching Resistance: An Approach. *Savuskan, V.*, +, *JSEN June 2013 2322-2328*

Network topology

Distributed Clustering With Directional Antennas for Wireless Sensor Networks. *Chen, Y.-C.*, +, *JSEN June 2013 2166-2180*

Neural nets

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Active Millimeter Wave Sensor for Standoff Concealed Threat Detection. *Andrews, D. A.*, +, *JSEN Dec. 2013 4948-4954*

Classification of Gases/Odors Using Dynamic Responses of Thick Film Gas Sensor Array. *Sunny*, +, *JSEN Dec. 2013 4924-4930*

Electronic Nose System Based on Quartz Crystal Microbalance Sensor for Blood Glucose and HbA1c Levels From Exhaled Breath Odor. *Saraoglu, H. M.*, +, *JSEN Nov. 2013 4229-4235*

Flexible Fabric Sensor Toward a Humanoid Robot's Skin: Fabrication, Characterization, and Perceptions. *Ho, V. A.*, +, *JSEN Oct. 2013 4065-4080*

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Neurophysiology

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Autonomous Detection of Angle Random Walk and Quantization Noise of Fiber Optic Gyro in Attitude Determination System of Satellite. *Yuan, R.*, +, *JSEN Jan. 2013 211-216*

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Nondestructive testing

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Nonlinear control systems

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Nondestructive Evaluation of Diesel Spray Holes Using Piezoresistive Sensors. *Peiner, E.*, +, *JSEN Feb. 2013 701-708*

Nuclear magnetic resonance

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Numerical analysis

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O

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Aliasing-Free Moving Target Detection in Random Pulse Repetition Interval Radar Based on Compressed Sensing. *Liu, Z.*, +, *JSEN July 2013 2523-2534*

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Capacitive Sensing of Antenna Loading With an R-C Voltage Divider in a Tunable Antenna. *Huttunen, A.*, +, *JSEN Feb. 2013 849-853*

Classification of Animals and People Ultrasonic Signatures. *Damarla, T.*, +, *JSEN MAY 2013 1464-1472*

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- On Design of Collaborative Mobile Sensor Networks for Deadline-Sensitive Mobile Target Detection. *Hsu, C.-C.*, +, *JSEN Aug. 2013 2962-2972*
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Object recognition

- A Stereo Vision-Based Self-Localization System. *Chiang, J.-S.*, +, *JSEN May 2013 1677-1689*

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- Eye Control System Base on Ameliorated Hough Transform Algorithm. *Xiong, J.*, +, *JSEN Sept. 2013 3421-3429*
- Issues in Wall Tracking With a CTFM Ultrasonic Sensor. *Antoun, S. M.*, +, *JSEN Dec. 2013 4671-4681*

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- Flexible and Surface-Mountable Piezoelectric Sensor Arrays for Underwater Sensing in Marine Vehicles. *Asadnia, M.*, +, *JSEN Oct. 2013 3918-3925*
- Novel Wavelet-mFCM Algorithm for Environmental Sensor Drift Correction. *Dutta, R.*, +, *JSEN July 2013 2519-2520*

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- Systematic Underestimation of MODIS Global Chlorophyll-a Concentration Estimation Algorithm Associating With Scale Effect. *Chen, J.*, +, *JSEN May 2013 1656-1661*

Oceanographic techniques

- A Mote Interface for Fiber Optic Spectral Sensing With Real-Time Monitoring of the Marine Environment. *O'Connell, E.*, +, *JSEN July 2013 2619-2625*
- Flexible and Surface-Mountable Piezoelectric Sensor Arrays for Underwater Sensing in Marine Vehicles. *Asadnia, M.*, +, *JSEN Oct. 2013 3918-3925*
- Systematic Underestimation of MODIS Global Chlorophyll-a Concentration Estimation Algorithm Associating With Scale Effect. *Chen, J.*, +, *JSEN May 2013 1656-1661*

Ontologies (artificial intelligence)

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Operating systems (computers)

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- A Dual Probe STM Imaging System and a Low Noise Switched-Capacitor Transimpedance Amplifier. *Tang, Y.*, +, *JSEN Aug. 2013 2984-2992*
- A Robust Low Power Carbon Nanotube Sensor Interface Circuit in 180 nm CMOS Technology. *Ren, S.*, +, *JSEN Dec. 2013 4786-4795*
- Comparison of Two CMOS Front-End Transimpedance Amplifiers for Optical Biosensors. *Trabelsi, A.*, +, *JSEN Feb. 2013 657-663*
- Linearization of NTC Thermistor Characteristic Using Op-Amp Based Inverting Amplifier. *Sarkar, A. R.*, +, *JSEN Dec. 2013 4621-4626*

Optical communication

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- Design Evaluation of a High Birefringence Single Mode Optical Fiber-Based Sensor for Lateral Pressure Monitoring Applications. *Karimi, M.*, +, *JSEN Nov. 2013 4459-4464*
- Fiber-Optic Volumetric Sensor Based on Beer-Lambert Principle. *Husain, I.*, +, *JSEN Sept. 2013 3345-3346*
- Tuning Characteristics of Guided Mode Resonances in 1- and 2-D Photonic Crystal Slab Biosensors. *Akhavan, H.*, +, *JSEN April 2013 1161-1166*

Optical distortion

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Optical fabrication

- A Tip-Tilt-Piston Micromirror With Symmetrical Lateral-Shift-Free Piezoelectric Actuators. *Liao, W.*, +, *JSEN Aug. 2013 2873-2881*

Optical fiber cladding

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- Interferometric Interrogation of the Inclination and Displacement of Tapered Fiber Mach-Zehnder Interferometers. *Chen, N.-K.*, +, *JSEN Sept. 2013 3437-3441*
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- Simple Fiber-Optic Refractive Index Sensor Based On Fresnel Reflection and Optical Switch. *Xu, W.*, +, *JSEN May 2013 1571-1574*

Optical fiber fabrication

- A Hollow Core Fiber-Based Intermodal Interferometer for Measurement of Strain and Temperature. *Qi, F.*, +, *JSEN Sept. 2013 3468-3471*
- A Hybrid Fiber Interferometer for Simultaneous Refractive Index and Temperature Measurements Based on Fabry-Perot/Michelson Interference. *Sun, H.*, +, *JSEN May 2013 2039-2044*
- All-Fiber Modal Interferometer Based on a Joint-Taper-Joint Fiber Structure for Refractive Index Sensing With High Sensitivity. *Chen, J.*, +, *JSEN July 2013 2780-2785*
- Micro-Ball Lensed Fiber-Based Glucose Sensor. *Harun, S. W.*, +, *JSEN Jan. 2013 348-350*
- Soft Fiber Optic Sensors for Precision Measurement of Shear Stress and Pressure. *Zhang, Z. F.*, +, *JSEN May 2013 1478-1482*
- Thermal Regeneration in Etched-Core Fiber Bragg Grating. *Yang, H.*, +, *JSEN July 2013 2581-2585*

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- Dual-Channel Self-Mixing Vibration Measurement System in a Linear Cavity Fiber Laser. *Lu, L.*, +, *JSEN Nov. 2013 4387-4392*
- EDF-Based Edge-Filter Interrogation Scheme for FBG Sensors. *Tiwari, U.*, +, *JSEN April 2013 1315-1319*

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- Design Evaluation of a High Birefringence Single Mode Optical Fiber-Based Sensor for Lateral Pressure Monitoring Applications. *Karimi, M.*, +, *JSEN Nov. 2013 4459-4464*

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- Miniature Fabry-Perot Fiber Optic Sensor for Intravascular Blood Temperature Measurements. *Zou, X.*, +, *JSEN June 2013 2155-2160*

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- Friction in Totally Optical Robotic Finger Oriented on Shear Force Measurement. *Massaro, A.*, +, *JSEN Feb. 2013 548-555*

High Sensitivity Force and Pressure Measurements Using Etched Single-mode Polymer Fiber Bragg Gratings. *Rajan, G.*, +, *JSEN May 2013 1794-1800*

Miniature Fabry–Perot Fiber Optic Sensor for Intravascular Blood Temperature Measurements. *Zou, X.*, +, *JSEN June 2013 2155-2160*

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Constant-Hue-Based Color Filter Array Demosaicking Sensor for Digital Still Camera Implementation. *Fan, Y.-C.*, +, *JSEN July 2013 2586-2594*

Four Point Probe Micro-Optical Gyroscope With Self Calibration Control. *Mitatha, S.*, +, *JSEN July 2013 2705-2710*

New Image Quality Assessment Algorithms for CFA Demosaicing. *Maschal, R. A.*, +, *JSEN Jan. 2013 371-378*

Wideband Visible Wavelength Range MEMS Fabry–Perot Tunable Filter With Highly Accurate Calibration System. *Hirokubo, N.*, +, *JSEN Aug. 2013 2930-2936*

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Stability Characterization of High-Sensitivity Silicon-Based EUV Photodiodes in a Detrimental Environment. *Shi, L.*, +, *JSEN May 2013 1699-1707*

Optical modulation

All Fiber-Optic Sensor for Monitoring Pressure Fluctuations in ON/OFF State. *Nath, P.*, +, *JSEN April 2013 1148-1152*

Coded Corrugated Microfluidic Sidewalls for Code Division Multiplexing. *Javanmard, M.*, +, *JSEN May 2013 1399-1400*

Intensity-Encoded Polymer Optical Fiber Accelerometer. *Antunes, P. F. C.*, +, *JSEN May 2013 1716-1720*

On-Chip Light Modulation Applying Optofluidic Principles. *Weber, E.*, +, *JSEN Dec. 2013 4773-4779*

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Planar Optical Waveguide Platform for Gas Sensing Using Liquid Crystal. *Ho, W. F.*, +, *JSEN July 2013 2521-2522*

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Distributed Feedback Laser Biosensor Noise Reduction. *Tan, Y.*, +, *JSEN May 2013 1972-1978*

Optical receivers

Performance of a New Bundle Fiber Sensor of 1000 RF in Comparison With 16 RF Probe. *Abdullah, M.*, +, *JSEN Nov. 2013 4522-4526*

Self Contained Adaptable Optical Wireless Communications System for Stroke Rate During Swimming. *Hagem, R. M.*, +, *JSEN Aug. 2013 3144-3151*

Optical resonators

A Polyaniline-Coated Integrated Microfiber Resonator for UV Detection. *Lim, K.-S.*, +, *JSEN May 2013 2020-2025*

Droplet-Based Sensing: Optical Microresonator Sensors Embedded in Digital Electrowetting Microfluidics Systems. *Royal, M. W.*, +, *JSEN Dec. 2013 4733-4742*

Tuning Characteristics of Guided Mode Resonances in 1- and 2-D Photonic Crystal Slab Biosensors. *Akhavan, H.*, +, *JSEN April 2013 1161-1166*

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A Tip-Tilt-Piston Micromirror With Symmetrical Lateral-Shift-Free Piezoelectric Actuators. *Liao, W.*, +, *JSEN Aug. 2013 2873-2881*

Optical sensors

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Chemiluminescent Visualization for Evaluation of Gaseous Ethanol Distribution During ‘La France’ Pear Maturation. *Arakawa, T.*, +, *JSEN Aug. 2013 2842-2848*

Comparison of Low-Cost and Noninvasive Optical Sensors for Cardiovascular Monitoring. *Pereira, T.*, +, *JSEN May 2013 1434-1441*

Comparison of Two CMOS Front-End Transimpedance Amplifiers for Optical Biosensors. *Trabelsi, A.*, +, *JSEN Feb. 2013 657-663*

Design and Analysis of an Embedded Accelerometer Coupled Self-Mixing Laser Displacement Sensor. *Zabit, U.*, +, *JSEN June 2013 2200-2207*

Design of CMOS Monolithic Digitized Light Transducer With Calibration Technique for Ambient Light Sensor Applications. *Chiang, C.-T.*, +, *JSEN May 2013 1931-1940*

Detecting Mechanoluminescence From ZnS:Mn Powder Using a High Speed Camera. *Kobakhidze, L.*, +, *JSEN Aug. 2013 3053-3059*

Detection and Monitoring of Microparticles Under Skin by Optical Coherence Tomography as an Approach to Continuous Glucose Sensing Using Implanted Retroreflectors. *Wang, S.*, +, *JSEN Nov. 2013 4534-4541*

Distributed Feedback Laser Biosensor Noise Reduction. *Tan, Y.*, +, *JSEN May 2013 1972-1978*

Distributed Illumination Control With Local Sensing and Actuation in Networked Lighting Systems. *Caicedo, D.*, +, *JSEN March 2013 1092-1104*

Droplet-Based Sensing: Optical Microresonator Sensors Embedded in Digital Electrowetting Microfluidics Systems. *Royal, M. W.*, +, *JSEN Dec. 2013 4733-4742*

Effects of Wavelength and Optical Path Length in Design of Fingernail Touch Force Sensing. *Abu-Khalaf, J. M.*, +, *JSEN Feb. 2013 807-815*

Four Point Probe Micro-Optical Gyroscope With Self Calibration Control. *Mitatha, S.*, +, *JSEN July 2013 2705-2710*

Friction in Totally Optical Robotic Finger Oriented on Shear Force Measurement. *Massaro, A.*, +, *JSEN Feb. 2013 548-555*

High-Sensitive Double-Hole Defect Refractive Index Sensor Based on 2-D Photonic Crystal. *Shiramin, L. A.*, +, *JSEN May 2013 1483-1486*

Highly Resolved Sub-Terahertz Vibrational Spectroscopy of Biological Macromolecules and Cells. *Globus, T.*, +, *JSEN Jan. 2013 72-79*

Investigations on an Ultra-Thin Bendable Monolithic Si CMOS Image Sensor. *Dogiamis, G. C.*, +, *JSEN Oct. 2013 3892-3900*

Mass Sensing With Optomechanical Oscillation. *Liu, F.*, +, *JSEN Jan. 2013 146-147*

Microfluidic Chip With Integrated a-Si:H Photodiodes for Chemiluminescence-Based Bioassays. *Caputo, D.*, +, *JSEN July 2013 2595-2602*

On the Design of Video-Bandwidth Electric Field Sensing Systems Using Dielectric LiNbO₃ Electro-Optic Sensors and Optical Delays as Signal Carriers. *Gutierrez-Martinez, C.*, +, *JSEN Nov. 2013 4196-4203*

Optical Detection of Lead(II) Ions Using DNA-Based Nanosensor. *Brenneman, K. L.*, +, *JSEN May 2013 1783-1786*

Planar Optical Waveguide Platform for Gas Sensing Using Liquid Crystal. *Ho, W. F.*, +, *JSEN July 2013 2521-2522*

Self-Mixing Laser Sensor for Large Displacements: Signal Recovery in the Presence of Speckle. *Zabit, U.*, +, *JSEN Feb. 2013 824-831*

Sensor Application of Poly (Ethylene Glycol) Diacrylate Hydrogels Chemically-Anchored on Polymer Surface. *Gao, Z.*, +, *JSEN May 2013 1690-1698*

Signal Detection for Optical AC and DC Voltage Sensors Based on Pockels Effect. *Li, H.*, +, *JSEN June 2013 2245-2252*

Speckle-Based Optical Sensor for Low Field Faraday Rotation Measurement. *Anand, A.*, +, *JSEN Feb. 2013 723-727*

Terpene Detection Based on Localized Surface Plasma Resonance of Thiolate-Modified Au Nanoparticles. *Chen, B.*, +, *JSEN April 2013 1307-1314*

Theory and Design of a Novel Integrated Polarimetric Sensor Utilizing a Light Sorting Metamaterial Grating. *Mandel, I.*, +, *JSEN Feb. 2013 618-625*

Truly Nonintrusive Liquid-Level-Sensing Method Based on Lateral Displacement Effect of Light Rays. *Singh, H. K.*, +, *JSEN Feb. 2013 801-806*

Tuning Characteristics of Guided Mode Resonances in 1- and 2-D Photonic Crystal Slab Biosensors. *Akhavan, H.*, +, *JSEN April 2013 1161-1166*

Two-Stage Interface Circuit Design for a 32-Color Resolution Optical Sensor. *Assaad, M.*, +, *JSEN Feb. 2013 610-617*

Utilization of Chitosan-Based Sensor Thin Films for the Detection of Lead Ion by Surface Plasmon Resonance Optical Sensor. *Fen, Y. W.*, +, *JSEN May 2013 1413-1418*

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All Fiber-Optic Sensor for Monitoring Pressure Fluctuations in ON/OFF State. *Nath, P.*, +, *JSEN April 2013 1148-1152*

Distributed Feedback Laser Biosensor Noise Reduction. *Tan, Y.*, +, *JSEN May 2013 1972-1978*

Self-Mixing Laser Sensor for Large Displacements: Signal Recovery in the Presence of Speckle. *Zabit, U.*, +, *JSEN Feb. 2013 824-831*

Optical switches

A Switchable Erbium Doped Fiber Ring Laser System for Temperature Sensors Multiplexing. *Rota-Rodrigo, S.*, +, *JSEN June 2013 2279-2283*

On-Chip Light Modulation Applying Optofluidic Principles. *Weber, E.*, +, *JSEN Dec. 2013 4773-4779*

Simple Fiber-Optic Refractive Index Sensor Based On Fresnel Reflection and Optical Switch. *Xu, W.*, +, *JSEN May 2013 1571-1574*

Spatial Resolution Improvement of Distributed Raman Temperature Measurement System. *Wang, Z. L.*, +, *JSEN Nov. 2013 4271-4278*

Optical time-domain reflectometry

Fiber Optic Bending Sensor for Water Level Monitoring: Development and Field Test: A Review. *Rosolem, J. B.*, +, *JSEN Nov. 2013 4113-4120*

Optical tomography

Detection and Monitoring of Microparticles Under Skin by Optical Coherence Tomography as an Approach to Continuous Glucose Sensing Using Implanted Retroreflectors. *Wang, S.*, +, *JSEN Nov. 2013 4534-4541*

Optical transmitters

Self Contained Adaptable Optical Wireless Communications System for Stroke Rate During Swimming. *Hagem, R. M.*, +, *JSEN Aug. 2013 3144-3151*

Optical tuning

Tuning Characteristics of Guided Mode Resonances in 1- and 2-D Photonic Crystal Slab Biosensors. *Akhavan, H.*, +, *JSEN April 2013 1161-1166*

Wideband Visible Wavelength Range MEMS Fabry-Perot Tunable Filter With Highly Accurate Calibration System. *Hirokubo, N.*, +, *JSEN Aug. 2013 2930-2936*

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On the Design of Video-Bandwidth Electric Field Sensing Systems Using Dielectric LiNbO₃ Electro-Optic Sensors and Optical Delays as Signal Carriers. *Gutierrez-Martinez, C.*, +, *JSEN Nov. 2013 4196-4203*

Optimization

A Distributed Localization Algorithm for Wireless Sensor Networks Based on the Solutions of Spatially-Constrained Local Problems. *Cota-Ruiz, J.*, +, *JSEN June 2013 2181-2191*

Aliasing-Free Moving Target Detection in Random Pulse Repetition Interval Radar Based on Compressed Sensing. *Liu, Z.*, +, *JSEN July 2013 2523-2534*

Analysis of an MRI Compatible Force Sensor for Sensitivity and Precision. *Turkseven, M.*, +, *JSEN Feb. 2013 476-486*

Battery-Friendly Packet Transmission Algorithms for Wireless Sensor Networks. *Li, H.*, +, *JSEN Oct. 2013 3548-3557*

Cross-Layer Solutions for Extended-Range Wireless Sensor Networks. *Lin, C.-K.*, +, *JSEN March 2013 1044-1054*

Deploying Sensors for Gravity Measurement in a Body-Area Inertial Sensor Network. *Wu, C.-H.*, +, *JSEN May 2013 1522-1533*

Induction Brazing of Type-I Fiber Bragg Gratings Into Kovar Ferrules Exploiting Curie Transition. *Perry, M.*, +, *JSEN Feb. 2013 816-823*

Novel Optimization Algorithm to Demodulate a PZT-FBG Sensor in AC High Voltage Measurements. *de Assumpcao Ribeiro, B.*, +, *JSEN April 2013 1259-1264*

Optimization and Microfabrication of High Performance Silicon-Based MEMS Microspeaker. *Shahosseini, I.*, +, *JSEN Jan. 2013 273-284*

Performance Improvement of Slow-Wave Rogowski Coils for High Impulse Current Measurement. *Metwally, I. A.*, +, *JSEN Feb. 2013 538-547*

Sensitivity of Asymmetrically Necked Planar Millimeter-Wave Detectors. *Kancleris, Z.*, +, *JSEN April 2013 1143-1147*

Tradeoff Between Throughput and Energy Consumption in Multirate Wireless Sensor Networks. *Xie, D.*, +, *JSEN Oct. 2013 3667-3676*

Optoelectronic devices

Optimization of the Local Evanescent Array-Coupled Optoelectronic Sensing Chip for Enhanced, Portable, Real-Time Sensing. *Erickson, T. A.*, +, *JSEN May 2013 1905-1913*

Organic compounds

A Lateral-Field-Excited Acoustic Wave Peroxide Based Explosive Sensor. *Duy, W. S. D.*, +, *JSEN Dec. 2013 4780-4785*

A Micropreconcentrator Design Using Low Temperature Cofired Ceramics Technology for Acetone Detection Applications. *Rydosz, A.*, +, *JSEN May 2013 1889-1896*

A Rapid and Cost Effective Method for Measurement of Cyclosporine. *Mirmohseni, A.*, +, *JSEN Nov. 2013 4542-4545*

Carbon Nanotubes With Adsorbed Au for Sensing Gas. *Lin, Z.-D.*, +, *JSEN June 2013 2423-2427*

Considerations for Lossy-Mode Resonance-Based Optical Fiber Sensor. *Sanchez, P.*, +, *JSEN April 2013 1167-1171*

Electronic Nose System Based on Quartz Crystal Microbalance Sensor for Blood Glucose and HbA1c Levels From Exhaled Breath Odor. *Saraoglu, H. M.*, +, *JSEN Nov. 2013 4229-4235*

Gases/Odors Identification With Artificial Immune Recognition System Using Thick Film Gas Sensor Array Responses. *Sunny*, +, *JSEN Aug. 2013 3039-3045*

High-Efficient Chip to Wafer Self-Alignment and Bonding Applicable to MEMS-IC Flexible Integration. *Lu, J.*, +, *JSEN Feb. 2013 651-656*

Humidity Sensor With a PVA-Coated Photonic Crystal Fiber Interferometer. *Li, T.*, +, *JSEN June 2013 2214-2216*

Improved Chemical Detection and Ultra-Fast Recovery Using Oxygen Functionalized Epitaxial Graphene Sensors. *Nagareddy, V. K.*, +, *JSEN Aug. 2013 2810-2817*

Planar Optical Waveguide Platform for Gas Sensing Using Liquid Crystal. *Ho, W. F.*, +, *JSEN July 2013 2521-2522*

Porous Tin-Oxide-Coated Regenerated Cellulose as Disposable and Low-Cost Alternative Transducer for Urea Detection. *Mahadeva, S. K.*, +, *JSEN June 2013 2223-2228*

Simple Fiber-Optic Refractive Index Sensor Based On Fresnel Reflection and Optical Switch. *Xu, W.*, +, *JSEN May 2013 1571-1574*

Terpene Detection Based on Localized Surface Plasma Resonance of Thiolate-Modified Au Nanoparticles. *Chen, B.*, +, *JSEN April 2013 1307-1314*

The Novel Carbon Nanomaterials Electrochemical Sensor for Determination of Trace Aluminum in Human Body Fluids With 8-Hydroxyquinoline. *Tang, Y.-Z.*, +, *JSEN Sept. 2013 3270-3275*

Time Horizon Selection Using Feature Feedback for the Implementation of an E-Nose System. *Jeong, G.-M.*, +, *JSEN May 2013 1575-1581*

Utilization of Chitosan-Based Sensor Thin Films for the Detection of Lead Ion by Surface Plasmon Resonance Optical Sensor. *Fen, Y. W.*, +, *JSEN May 2013 1413-1418*

Organic field effect transistors

Organic Bendable and Stretchable Field Effect Devices for Sensing Applications. *Loi, A.*, +, *JSEN Dec. 2013 4764-4772*

Organic light emitting diodes

Bendable Ultra-Thin Chips on Flexible Foils. *Dahiya, R. S.*, +, *JSEN Oct. 2013 4030-4037*

Large-Area Low-Cost Flexible Plastic Nanohole Arrays for Integrated Bio-Chemical Sensing. *Chuo, Y.*, +, *JSEN Oct. 2013 3982-3990*

Organic semiconductors

Organic Bendable and Stretchable Field Effect Devices for Sensing Applications. *Loi, A.*, +, *JSEN Dec. 2013 4764-4772*

Orthotics

Subject-Specific Wrist Model Calibration and Application to Ergonomic Design of Exoskeletons. *Esmaili, M.*, +, *JSEN Sept. 2013 3293-3301*

Oscillations

Novel Miniature Airflow Energy Harvester for Wireless Sensing Applications in Buildings. *Zhu, D.*, +, *JSEN Feb. 2013 691-700*

Oscillators

A CMOS-MEMS Resonator Integrated System for Oscillator Application. *Pachkawade, V.*, +, *JSEN Aug. 2013 2882-2889*

Effects of the Set Phase Position on the Response of a SAW Resonator Oscillator Based Chemical Sensor. *Kshetrimayum, R.*, +, *JSEN May 2013 1662-1668*

Mass Sensing With Optomechanical Oscillation. *Liu, F.*, +, *JSEN Jan. 2013 146-147*

Subharmonic Mixing With Field-Effect Transistors: Theory and Experiment at 639 GHz High Above f_T . *Lisauskas, A.*, +, *JSEN Jan. 2013 124-132*

Oscilloscopes

Detecting Mechanoluminescence From ZnS:Mn Powder Using a High Speed Camera. *Kobakhidze, L.*, +, *JSEN Aug. 2013 3053-3059*

Osmosis

Improvement of Odor Blender Using Electroosmotic Pumps and SAW Atomizer for Low-Volatile Scents. *Ariyakul, Y.*, +, *JSEN Dec. 2013 4918-4923*

Otoacoustic emissions

Bispectral Analysis of Transient Evoked Otoacoustic Emissions to Study Factors Influencing Cochlear Non-Linearities: Normative Data in Young Adults. *Tognola, G.*, +, *JSEN Sept. 2013 3249-3254*

Oxidation

Carbon Nanotubes With Adsorbed Au for Sensing Gas. *Lin, Z.-D.*, +, *JSEN June 2013 2423-2427*

Evaluation of Oxidized-Low-Density Lipoproteins Using Kelvin Force Microscopy. *Takeda, S.*, +, *JSEN Sept. 2013 3449-3453*

Fish Freshness Monitoring Using an E-Tongue Based on Polypyrrole Modified Screen-Printed Electrodes. *Apetrei, I. M.*, +, *JSEN July 2013 2548-2554*

Ocular Biometric Measurements to Diagnose Neurological Disorders Due to Wilson Disease. *Morello, R.*, +, *JSEN Sept. 2013 3203-3210*

Oxygen

Study of Digital Dissolved Oxygen Analytical Sensor of ppb-Level. *Qi, X.*, +, *JSEN Nov. 2013 4279-4286*

P**Packaging**

A Closed-Loop Remote Powering Link for Wireless Cortical Implants. *Silay, K. M.*, +, *JSEN Sept. 2013 3226-3235*

Area-Efficient Three Axis MEMS Lorentz Force Magnetometer. *Rouf, V. T.*, +, *JSEN Nov. 2013 4474-4481*

Recovered Paperboard Samples Identification by Means of Mid-Infrared Sensors. *Riba, J.-R.*, +, *JSEN July 2013 2763-2770*

Packet radio networks

Online Monitoring of Geological CO₂ Storage and Leakage Based on Wireless Sensor Networks. *Yang, H.*, +, *JSEN Feb. 2013 556-562*

Paediatrics

Ecological Sucking Monitoring of Newborns. *Taffoni, F.*, +, *JSEN Nov. 2013 4561-4568*

Palladium

A Wireless-Transfer-Based Hydrogen Gas Sensing System With a Pd/AlGaIn/GaN Heterostructure Field-Effect Transistor (HFET). *Hsu, C.-S.*, +, *JSEN June 2013 2299-2304*

Hydrogen-Sensing Properties of a Pd/AlGaIn/GaN-Based Field-Effect Transistor Under a Nitrogen Ambience. *Hsu, C.-S.*, +, *JSEN May 2013 1787-1793*

Palladium alloys

Characteristics of an Optical Fiber Hydrogen Gas Sensor Based on a Palladium and Yttrium Alloy Thin Film. *Liu, Y.*, +, *JSEN July 2013 2699-2704*

Paper

Integration of f-MWCNT Sensor and Printed Circuits on Paper Substrate. *Xie, L.*, +, *JSEN Oct. 2013 3948-3956*

Paper-Based Flexible Taxel Device Using Electrical Contact Resistance Variation for Elasticity Measurement on Biological Objects. *Shiau, C.-C.*, +, *JSEN Oct. 2013 4038-4044*

Paper technology

Recovered Paperboard Samples Identification by Means of Mid-Infrared Sensors. *Riba, J.-R.*, +, *JSEN July 2013 2763-2770*

Parameter estimation

Dynamics-Based Stereo Visual Inspection Using Multidimensional Modal Analysis. *Yang, H.*, +, *JSEN Dec. 2013 4831-4843*

PassFit: Participatory Sensing and Filtering for Identifying Truthful Urban Pollution Sources. *Xiang, C.*, +, *JSEN Oct. 2013 3721-3732*

Parity check codes

Distributed Block Arithmetic Coding for Equiprobable Sources. *Zhou, J.*, +, *JSEN July 2013 2750-2756*

Partial discharge measurement

Characterizing the Sensitivity of UHF Partial Discharge Sensors Using FDTD Modeling. *Ishak, A. M.*, +, *JSEN Aug. 2013 3025-3031*

Parameters Identification and Modeling of High-Frequency Current Transducer for Partial Discharge Measurements. *Shafiq, M.*, +, *JSEN March 2013 1081-1091*

Particle detectors

Integrated Impactor/Detector for a High-Throughput Explosive-Trace Detection Portal. *Fulghum, M. R.*, +, *JSEN April 2013 1252-1258*

Particle filtering (numerical methods)

Particle Filtering for Acoustic Source Tracking in Impulsive Noise With Alpha-Stable Process. *Zhong, X.*, +, *JSEN Feb. 2013 589-600*

Particle size

Estimating Colloidal Concentration Using Acoustic Backscatter. *Fuller, C. B.*, +, *JSEN Nov. 2013 4546-4555*

Particle swarm optimization

High-Resolution Touch Floor System Using Particle Swarm Optimization Neural Network. *Kim, H.*, +, *JSEN June 2013 2084-2093*

Passivation

Humidity-to-Frequency Sensor in CMOS Technology With Wireless Readout. *Cirmirakis, D.*, +, *JSEN March 2013 900-908*

Neural Electrode Array Based on Aluminum: Fabrication and Characterization. *Peixoto, A. C. M.*, +, *JSEN Sept. 2013 3319-3324*

Passive networks

Selecting Single Photon Avalanche Diode (SPAD) Passive-Quenching Resistance: An Approach. *Savuskan, V.*, +, *JSEN June 2013 2322-2328*

Patient diagnosis

A CMOS MEMS Capacitive Flow Sensor for Respiratory Monitoring. *Liao, S.-H.*, +, *JSEN May 2013 1401-1402*

Comparison of Low-Cost and Noninvasive Optical Sensors for Cardiovascular Monitoring. *Pereira, T.*, +, *JSEN May 2013 1434-1441*

Development of a Non-Contact Sensing Method for Scratching Activity Measurement. *Kurihara, Y.*, +, *JSEN Sept. 2013 3325-3330*

Effectiveness of Functionalized Nanosystems for Multimodal Molecular Sensing and Imaging in Medicine. *Casciaro, S.*, +, *JSEN June 2013 2305-2312*

Ion Sensor for the Quantification of Sodium in Sweat Samples. *Wujcik, E. K.*, +, *JSEN Sept. 2013 3430-3436*

Mechanomyography Sensor Development, Related Signal Processing, and Applications: A Systematic Review. *Islam, M. A.*, +, *JSEN July 2013 2499-2516*

Patient monitoring

A CMOS MEMS Capacitive Flow Sensor for Respiratory Monitoring. *Liao, S.-H.*, +, *JSEN May 2013 1401-1402*

A Novel Glove Monitoring System Used to Quantify Neurological Symptoms During Deep-Brain Stimulation Surgery. *Dai, H.*, +, *JSEN Sept. 2013 3193-3202*

An Attachable Clothing Sensor System for Measuring Knee Joint Angles. *Bergmann, J. H. M.*, +, *JSEN Oct. 2013 4090-4097*

Comparison of Low-Cost and Noninvasive Optical Sensors for Cardiovascular Monitoring. *Pereira, T.*, +, *JSEN May 2013 1434-1441*

Design of Pervasive Rehabilitation Monitoring for Chronic Obstructive Pulmonary Disease. *Wu, M.-F.*, +, *JSEN Nov. 2013 4413-4422*

Detection and Monitoring of Microparticles Under Skin by Optical Coherence Tomography as an Approach to Continuous Glucose Sensing Using Implanted Retroreflectors. *Wang, S.*, +, *JSEN Nov. 2013 4534-4541*

Detection of Transplant Rejection Chemokine Protein Biomarker in Physiological Salt Concentration. *Tulip, F. S.*, +, *JSEN Feb. 2013 438-439*

Electromagnetic Biosensing of Respiratory Rate. *Padasdao, B.*, +, *JSEN Nov. 2013 4204-4211*

Fiber Bragg Grating Strain Sensor Incorporated to Monitor Patient Vital Signs During MRI. *Dziuda, L.*, +, *JSEN Dec. 2013 4986-4991*

Intra-Mobility Support Solutions for Healthcare Wireless Sensor Networks—Handover Issues. *Caldeira, J. M. L. P.*, +, *JSEN Nov. 2013 4339-4348*

MEMS-Based Intraoperative Monitoring System for Improved Safety in Lumbar Surgery. *Liu, X.*, +, *JSEN May 2013 1541-1548*

Wireless Energy and Data Transfer for In-Vivo Epileptic Focus Localization. *Yilmaz, G.*, +, *JSEN Nov. 2013 4172-4179*

Wireless Machine-to-Machine Healthcare Solution Using Android Mobile Devices in Global Networks. *Jung, S.-J.*, +, *JSEN May 2013 1419-1424*

Patient rehabilitation

Design of Pervasive Rehabilitation Monitoring for Chronic Obstructive Pulmonary Disease. *Wu, M.-F.*, +, *JSEN Nov. 2013 4413-4422*

Mechanomyography Sensor Development, Related Signal Processing, and Applications: A Systematic Review. *Islam, M. A.*, +, *JSEN July 2013 2499-2516*

Patient treatment

A Linear Approach to Multi-Panel Sensing in Personalized Therapy for Cancer Treatment. *Baj-Rossi, C.*, +, *JSEN Dec. 2013 4860-4865*

Pattern clustering

LCM: A Link-Aware Clustering Mechanism for Energy-Efficient Routing in Wireless Sensor Networks. *Wang, S. S.*, +, *JSEN Feb. 2013 728-736*

- Load-Balanced Clustering Algorithm With Distributed Self-Organization for Wireless Sensor Networks. *Liao, Y.*, +, *JSEN May 2013 1498-1506*
- Novel Wavelet-mFCM Algorithm for Environmental Sensor Drift Correction. *Dutta, R.*, +, *JSEN July 2013 2519-2520*
- Optimizing Complex Cluster Formation in MANETs Using SAT/ILP Techniques. *Zahidi, S. Z. H.*, +, *JSEN June 2013 2400-2412*
- Pattern recognition**
- Performance Evaluation of South Esk Hydrological Sensor Web: Unsupervised Machine Learning and Semantic Linked Data Approach. *Dutta, R.*, +, *JSEN Oct. 2013 3806-3815*
- Surface EMG Based Hand Manipulation Identification Via Nonlinear Feature Extraction and Classification. *Ju, Z.*, +, *JSEN Sept. 2013 3302-3311*
- PD control**
- High-Performance Closed-Loop Interface Circuit for High-Q Capacitive Microaccelerometers. *Ye, Z.*, +, *JSEN May 2013 1425-1433*
- Peak detectors**
- A Novel Closed-Loop Readout Topology for Monolithically Integrated Surface Acoustic Wave Sensors. *Rakshit, S.*, +, *JSEN Nov. 2013 4264-4270*
- Percolation**
- Percolation Theory-Based Exposure-Path Prevention for Wireless Sensor Networks Coverage in Internet of Things. *Liu, L.*, +, *JSEN Oct. 2013 3625-3636*
- Performance evaluation**
- A Cyber Physical Test-Bed for Virtualization of RF Access Environment for Body Sensor Network. *He, J.*, +, *JSEN Oct. 2013 3826-3836*
- A Microwave Resonant Sensor for Concentration Measurements of Liquid Solutions. *Gennarelli, G.*, +, *JSEN May 2013 1857-1864*
- Integration of f-MWCNT Sensor and Printed Circuits on Paper Substrate. *Xie, L.*, +, *JSEN Oct. 2013 3948-3956*
- Low-Power Circuits and Energy Harvesting for Structural Health Monitoring of Bridges. *Wardlaw, J. L.*, +, *JSEN Feb. 2013 709-722*
- Permanent magnet motors**
- Square Root Cubature Information Filter. *Chandra, K. P. B.*, +, *JSEN Feb. 2013 750-758*
- Permanent magnets**
- Electromechanical Energy Scavenging From Current-Carrying Conductors. *Paprotny, I.*, +, *JSEN Jan. 2013 190-201*
- Permittivity**
- Comparison of Acoustic Wave Sensors With Different Cut LiNbO₃ Working on Pseudo-LFE Mode. *Zhang, Z.*, +, *JSEN June 2013 2109-2114*
- Data Pattern With ECT Sensor and Its Impact on Image Reconstruction. *Yang, Y.*, +, *JSEN May 2013 1582-1593*
- On the Design of Video-Bandwidth Electric Field Sensing Systems Using Dielectric LiNbO₃ Electro-Optic Sensors and Optical Delays as Signal Carriers. *Gutierrez-Martinez, C.*, +, *JSEN Nov. 2013 4196-4203*
- Permittivity measurement**
- Design of a Coplanar Sensor for RF Characterization of Thin Dielectric Samples. *Shete, M.*, +, *JSEN Dec. 2013 4706-4715*
- Personal area networks**
- LitHe: Lightweight Secure CoAP for the Internet of Things. *Raza, S.*, +, *JSEN Oct. 2013 3711-3720*
- Non-Intrusive Healthcare System in Global Machine-to-Machine Networks. *Jung, S.-J.*, +, *JSEN Dec. 2013 4824-4830*
- Wireless Machine-to-Machine Healthcare Solution Using Android Mobile Devices in Global Networks. *Jung, S.-J.*, +, *JSEN May 2013 1419-1424*
- Personal communication networks**
- QoI-Aware Energy-Efficient Participatory Crowdsourcing. *Liu, C. H.*, +, *JSEN Oct. 2013 3742-3753*
- Pest control**
- Highly Sensitive Lateral Field Excited Piezoelectric Film Acoustic Enzyme Biosensor. *Chen, D.*, +, *JSEN June 2013 2217-2222*
- Petroleum**
- Detection of Fuel Adulteration With High Sensitivity Using Turnaround Point Long Period Fiber Gratings in B/Ge Doped Fibers. *Kher, S.*, +, *JSEN Nov. 2013 4482-4486*
- Gases/Odors Identification With Artificial Immune Recognition System Using Thick Film Gas Sensor Array Responses. *Sunny, +*, *JSEN Aug. 2013 3039-3045*
- pH**
- Application of Microfluidic Device for Lactic Biosensor. *Chou, J.-C.*, +, *JSEN April 2013 1363-1370*
- pH measurement**
- A Closed-Loop Hydrogel-Based Chemical Sensor. *Schulz, V.*, +, *JSEN March 2013 994-1002*
- A Miniaturized pH Sensor With an Embedded Counter Electrode and a Readout Circuit. *Veeramani, M. S.*, +, *JSEN May 2013 1941-1948*
- A Wide Range Conductometric pH Sensor Made With Titanium Dioxide/Multiwall Carbon Nanotube/Cellulose Hybrid Nanocomposite. *Chen, Y.*, +, *JSEN Nov. 2013 4157-4162*
- A Wireless Passive Sensor for Temperature Compensated Remote pH Monitoring. *Bhadra, S.*, +, *JSEN June 2013 2428-2436*
- Fabrication and Investigation of Arrayed Glucose Biosensor Based on Microfluidic Framework. *Chou, J.-C.*, +, *JSEN Nov. 2013 4180-4187*
- Sol-Gel Iridium Oxide-Based pH Sensor Array on Flexible Polyimide Substrate. *Nguyen, C. M.*, +, *JSEN Oct. 2013 3857-3864*
- Phantoms**
- A CMOS Sensor for Measurement of Cerebral Optical Coefficients Using Non-Invasive Frequency Domain Near Infrared Spectroscopy. *Sthalekar, C. C.*, +, *JSEN Sept. 2013 3166-3174*
- Phase coding**
- Coded Corrugated Microfluidic Sidewalls for Code Division Multiplexing. *Javanmard, M.*, +, *JSEN May 2013 1399-1400*
- Phase estimation**
- Recovering Amplitudes and Phases From Saturated Multifrequency Sinusoid Signals. *Hu, C.*, +, *JSEN Nov. 2013 4569-4575*
- Two New Estimation Algorithms for Sensor Gain and Phase Errors Based on Different Data Models. *Jiang, J.*, +, *JSEN May 2013 1921-1930*
- Phase locked loops**
- Modern Resonator Spectroscopy at Submillimeter Wavelengths. *Parshin, V. V.*, +, *JSEN Jan. 2013 18-23*
- Phase measurement**
- A CMOS Magnitude/Phase Measurement Chip for Impedance Spectroscopy. *Kassanos, P.*, +, *JSEN June 2013 2229-2236*
- Interferometric Technique for Measuring Terahertz Antenna Phase Patterns. *Bowen, J. W.*, +, *JSEN Jan. 2013 100-110*
- Phase-Sensitive Terahertz Self-Heterodyne System Based on Photodiode and Low-Temperature-Grown GaAs Photoconductor at 1.55 μm . *Hisatake, S.*, +, *JSEN Jan. 2013 31-36*
- Phase shift keying**
- A Design and Assessment of a Direction Finding Proximity Fuze Sensor. *Choi, J.-H.*, +, *JSEN Aug. 2013 3079-3089*
- Phased array radar**
- Phased-MIMO Radar With Frequency Diversity for Range-Dependent Beamforming. *Wang, W.-Q.*, +, *JSEN April 2013 1320-1328*
- Photochemistry**
- NADH-Fluorometric Biochemical Gas Sensor (Bio-Sniffer) for Evaluation of Indoor Air Quality. *Kudo, H.*, +, *JSEN Aug. 2013 2828-2833*
- Photoconducting materials**
- Long Wavelength Low Temperature Grown GaAs and InP-Based Terahertz Photoconductors Devices. *Missous, M.*, +, *JSEN Jan. 2013 63-71*
- Phase-Sensitive Terahertz Self-Heterodyne System Based on Photodiode and Low-Temperature-Grown GaAs Photoconductor at 1.55 μm . *Hisatake, S.*, +, *JSEN Jan. 2013 31-36*
- Photoconductivity**
- Photodetection With Gate-Controlled Lateral BJTs From Standard CMOS Technology. *Campos, F. S.*, +, *JSEN May 2013 1554-1563*
- ZnO-Cellulose Composite for UV Sensing. *Gimenez, A. J.*, +, *JSEN April 2013 1301-1306*
- Photodetectors**
- Ga₂O₃ Nanowire Photodetector Prepared on SiO₂/Si Template. *Wu, Y. L.*, +, *JSEN June 2013 2368-2373*
- Ga₂O₃/AlGaIn/GaN Heterostructure Ultraviolet Three-Band Photodetector. *Huang, Z.-D.*, +, *JSEN Sept. 2013 3462-3467*
- Calculation Research on Infrared Radiation Characteristic on Flying Projectile in Sky-Screen. *Li, H.*, +, *JSEN May 2013 1959-1964*
- Characterization of Low Dark-Current Lateral Amorphous-Selenium Metal-Semiconductor-Metal Photodetectors. *Abbaszadeh, S.*, +, *JSEN May 2013 1452-1458*
- Comparison of Low-Cost and Noninvasive Optical Sensors for Cardiovascular Monitoring. *Pereira, T.*, +, *JSEN May 2013 1434-1441*
- Design of A CMOS Intelligent Light Sensing Chip for Automatic Brightness Tuning Applications. *Chiang, C.-T.*, +, *JSEN Dec. 2013 4955-4961*
- Effects of Wavelength and Optical Path Length in Design of Fingernail Touch Force Sensing. *Abu-Khalaf, J. M.*, +, *JSEN Feb. 2013 807-815*
- Hazardless Biomedical Sensing Data Transmission Using VLC. *Cheong, Y.-K.*, +, *JSEN Sept. 2013 3347-3348*
- Infrared Camera Using a Single Nano-Photodetector. *Chen, H.*, +, *JSEN March 2013 949-958*

- InGaN/GaN Multiquantum-Well Metal-Semiconductor-Metal Photodetectors With Beta-Ga₂O₃ Cap Layers. *Huang, Z.-D., +, JSEN April 2013 1187-1191*
- Investigations on an Ultra-Thin Bendable Monolithic Si CMOS Image Sensor. *Dogiamis, G. C., +, JSEN Oct. 2013 3892-3900*
- Long Wavelength Low Temperature Grown GaAs and InP-Based Terahertz Photoconductors Devices. *Missous, M., +, JSEN Jan. 2013 63-71*
- Low-Frequency Noise Characteristics of ZnO Nanorods Schottky Barrier Photodetectors. *Chen, T.-P., +, JSEN June 2013 2115-2119*
- Microfluidic Chip With Integrated a-Si:H Photodiodes for Chemiluminescence-Based Bioassays. *Caputo, D., +, JSEN July 2013 2595-2602*
- NADH-Fluorometric Biochemical Gas Sensor (Bio-Sniffer) for Evaluation of Indoor Air Quality. *Kudo, H., +, JSEN Aug. 2013 2828-2833*
- Optimization of the Local Evanescent Array-Coupled Optoelectronic Sensing Chip for Enhanced, Portable, Real-Time Sensing. *Erickson, T. A., +, JSEN May 2013 1905-1913*
- Photodetection With Gate-Controlled Lateral BJTs From Standard CMOS Technology. *Campos, F. S., +, JSEN May 2013 1554-1563*
- Theory and Design of a Novel Integrated Polarimetric Sensor Utilizing a Light Sorting Metamaterial Grating. *Mandel, I., +, JSEN Feb. 2013 618-625*
- Photodiodes**
- CMOS Demodulation Image Sensor for Nanosecond Optical Waveform Analysis. *Bonjour, L.-E., +, JSEN May 2013 1487-1497*
- Comparison of Two CMOS Front-End Transimpedance Amplifiers for Optical Biosensors. *Trabelsi, A., +, JSEN Feb. 2013 657-663*
- Effects of Wavelength and Optical Path Length in Design of Fingernail Touch Force Sensing. *Abu-Khalaf, J. M., +, JSEN Feb. 2013 807-815*
- Investigations on an Ultra-Thin Bendable Monolithic Si CMOS Image Sensor. *Dogiamis, G. C., +, JSEN Oct. 2013 3892-3900*
- Microfluidic Chip With Integrated a-Si:H Photodiodes for Chemiluminescence-Based Bioassays. *Caputo, D., +, JSEN July 2013 2595-2602*
- Phase-Sensitive Terahertz Self-Heterodyne System Based on Photodiode and Low-Temperature-Grown GaAs Photoconductor at 1.55 μm . *Hisatake, S., +, JSEN Jan. 2013 31-36*
- Photoexcitation**
- Infrared Camera Using a Single Nano-Photodetector. *Chen, H., +, JSEN March 2013 949-958*
- Photogrammetry**
- Efficient Lens Distortion Correction for Decoupling in Calibration of Wide Angle Lens Cameras. *Ricolfè-Viala, C., +, JSEN Feb. 2013 854-863*
- Photolithography**
- Droplet-Based Sensing: Optical Microresonator Sensors Embedded in Digital Electrowetting Microfluidics Systems. *Royal, M. W., +, JSEN Dec. 2013 4733-4742*
- Woven Temperature and Humidity Sensors on Flexible Plastic Substrates for E-Textile Applications. *Mattana, G., +, JSEN Oct. 2013 3901-3909*
- Photomultipliers**
- NADH-Fluorometric Biochemical Gas Sensor (Bio-Sniffer) for Evaluation of Indoor Air Quality. *Kudo, H., +, JSEN Aug. 2013 2828-2833*
- Photonic crystals**
- A Hybrid Fiber Interferometer for Simultaneous Refractive Index and Temperature Measurements Based on Fabry-Perot/Michelson Interference. *Sun, H., +, JSEN May 2013 2039-2044*
- Fiber Optic Hybrid Device for Simultaneous Measurement of Humidity and Temperature. *Mathew, J., +, JSEN May 2013 1632-1636*
- Humidity Sensor With a PVA-Coated Photonic Crystal Fiber Interferometer. *Li, T., +, JSEN June 2013 2214-2216*
- Tuning Characteristics of Guided Mode Resonances in 1- and 2-D Photonic Crystal Slab Biosensors. *Akhavan, H., +, JSEN April 2013 1161-1166*
- Photons**
- An Estimation of Single Photon Avalanche Diode (SPAD) Photon Detection Efficiency (PDE) Nonuniformity. *Savuskan, V., +, JSEN May 2013 1637-1640*
- Selecting Single Photon Avalanche Diode (SPAD) Passive-Quenching Resistance: An Approach. *Savuskan, V., +, JSEN June 2013 2322-2328*
- Sensitive Detection of Nitroaromatics With Colloidal Conjugated Polymer Nanoparticles. *Satapathi, S., +, JSEN June 2013 2329-2333*
- Photoplethysmography**
- Development and Evaluation of a Wristwatch-Type Photoplethysmography Array Sensor Module. *Lee, Y. K., +, JSEN May 2013 1459-1463*
- Experimental Investigation of the Roles of Blood Volume and Density in Finger Photoplethysmography. *Keikhosravi, A., +, JSEN May 2013 1397-1398*
- Photoresists**
- Sensor Application of Poly (Ethylene Glycol) Diacrylate Hydrogels Chemically-Anchored on Polymer Surface. *Gao, Z., +, JSEN May 2013 1690-1698*
- Photovoltaic power systems**
- Quality-Driven Energy-Neutralized Power and Relay Selection for Smart Grid Wireless Multimedia Sensor Based IoTs. *Yao, R., +, JSEN Oct. 2013 3637-3644*
- Physical instrumentation control**
- Experimental Study and Implementation of a Novel Digital Closed-Loop Control System for Coriolis Mass Flowmeter. *Hu, C., +, JSEN Aug. 2013 3032-3038*
- Physiological models**
- Subject-Specific Wrist Model Calibration and Application to Ergonomic Design of Exoskeletons. *Esmaeili, M., +, JSEN Sept. 2013 3293-3301*
- Physiology**
- Artificial Sense of Slip—A Review. *Francomano, M. T., +, JSEN July 2013 2489-2498*
- Electromagnetic Biosensing of Respiratory Rate. *Padasdao, B., +, JSEN Nov. 2013 4204-4211*
- Ion Sensor for the Quantification of Sodium in Sweat Samples. *Wujcik, E. K., +, JSEN Sept. 2013 3430-3436*
- Physiological Tremor Estimation With Autoregressive (AR) Model and Kalman Filter for Robotics Applications. *Tatimati, S., +, JSEN Dec. 2013 4977-4985*
- Piezoceramics**
- Development of a Non-Contact Sensing Method for Scratching Activity Measurement. *Kurihara, Y., +, JSEN Sept. 2013 3325-3330*
- Impedance-Based Temperature Sensing With Piezoceramic Devices. *Ilg, J., +, JSEN June 2013 2442-2449*
- Novel Optimization Algorithm to Demodulate a PZT-FBG Sensor in AC High Voltage Measurements. *de Assumpcao Ribeiro, B., +, JSEN April 2013 1259-1264*
- Piezoelectric actuators**
- A Tip-Tilt-Piston Micromirror With Symmetrical Lateral-Shift-Free Piezoelectric Actuators. *Liao, W., +, JSEN Aug. 2013 2873-2881*
- Support Losses in Micromechanical Resonators Under Electrostatic and Piezoelectric Actuations. *Zhu, R., +, JSEN March 2013 1105-1109*
- Piezoelectric devices**
- Comparison of Acoustic Wave Sensors With Different Cut LiNbO₃ Working on Pseudo-LFE Mode. *Zhang, Z., +, JSEN June 2013 2109-2114*
- Development of a Non-Contact Sensing Method for Scratching Activity Measurement. *Kurihara, Y., +, JSEN Sept. 2013 3325-3330*
- Different Scale Confinements of PVDF-TrFE as Functional Material of Piezoelectric Devices. *Canavesi, G., +, JSEN June 2013 2237-2244*
- Piezoelectric Force Response of Novel 2D Textile Based PVDF Sensors. *Krajewski, A. S., +, JSEN Dec. 2013 4743-4748*
- Piezoelectric Vibratory-Cantilever Force Sensors and Axial Sensitivity Analysis for Individual Triaxial Tactile Sensing. *Yamashita, K., +, JSEN March 2013 1074-1080*
- Tidal Volume Measurement Through Non-Contact Doppler Radar With DC Reconstruction. *Massagram, W., +, JSEN Sept. 2013 3397-3404*
- Piezoelectric materials**
- Piezoelectric Force Response of Novel 2D Textile Based PVDF Sensors. *Krajewski, A. S., +, JSEN Dec. 2013 4743-4748*
- Piezoelectric semiconductors**
- Highly Sensitive Lateral Field Excited Piezoelectric Film Acoustic Enzyme Biosensor. *Chen, D., +, JSEN June 2013 2217-2222*
- Piezoelectric thin films**
- Highly Sensitive Lateral Field Excited Piezoelectric Film Acoustic Enzyme Biosensor. *Chen, D., +, JSEN June 2013 2217-2222*
- Piezoelectric transducers**
- An Optically Interrogated Rogowski Coil for Passive, Multiplexable Current Measurement. *Orr, P., +, JSEN June 2013 2053-2054*
- Contactless Liquid-Level Measurement With Frequency-Modulated Millimeter Wave Through Opaque Container. *Nakagawa, T., +, JSEN March 2013 926-933*
- Flexible and Surface-Mountable Piezoelectric Sensor Arrays for Underwater Sensing in Marine Vehicles. *Asadnia, M., +, JSEN Oct. 2013 3918-3925*
- Impedance-Based Temperature Sensing With Piezoceramic Devices. *Ilg, J., +, JSEN June 2013 2442-2449*
- Inkjet Printed All-Polymer Flexural Plate Wave Sensors. *Sielmann, C. J., +, JSEN Oct. 2013 4005-4013*

- Integration of Thin Film Strain Sensors Into Hard Drives for Active Feedback Vibration Suppression. *Felix, S.*, +, *JSEN May 2013 1708-1715*
- Joint Modeling of Piezoelectric Transducers and Power Conversion Circuits for Energy Harvesting Applications. *Romani, A.*, +, *JSEN March 2013 916-925*
- Novel Optimization Algorithm to Demodulate a PZT-FBG Sensor in AC High Voltage Measurements. *de Assumpcao Ribeiro, B.*, +, *JSEN April 2013 1259-1264*
- Piezoelectric Polymer Transducer Arrays for Flexible Tactile Sensors. *Seminara, L.*, +, *JSEN Oct. 2013 4022-4029*
- Scalar Differential Equation for Slowly-Varying Thickness-Shear Modes in AT-Cut Quartz Resonators With Surface Impedance for Acoustic Wave Sensor Application. *He, H.*, +, *JSEN Nov. 2013 4349-4355*
- Piezoelectricity**
- Piezoelectricity of Well-Aligned Electrospun Fiber Composites. *Liu, Z.-H.*, +, *JSEN Oct. 2013 4098-4103*
- Piezoresistance**
- Package Stress Monitor to Compensate for the Piezo-Hall Effect in CMOS Hall Sensors. *Huber, S.*, +, *JSEN Aug. 2013 2890-2898*
- Piezoresistive devices**
- Aerosol-Printed Strain Sensor Using PEDOT:PSS. *Thompson, B.*, +, *JSEN Nov. 2013 4256-4263*
- Cantilever Resonator With Integrated Actuation and Sensing Fabricated Using a Single Step Lithography. *Mohanasundaram, S. M.*, +, *JSEN Feb. 2013 440-441*
- Doping Characteristics of Polycrystalline Silicon Deposited by Chemical Transport at Atmospheric Pressure and its Application to MEMS Sensor. *Naito, T.*, +, *JSEN Aug. 2013 2899-2905*
- Flexible Sputter-Deposited Carbon Strain Sensor. *Tata, U.*, +, *JSEN Feb. 2013 444-445*
- MEMS Force Sensor in a Flexible Substrate Using Nichrome Piezoresistors. *Ahmed, M.*, +, *JSEN Oct. 2013 4081-4089*
- Nondestructive Evaluation of Diesel Spray Holes Using Piezoresistive Sensors. *Peiner, E.*, +, *JSEN Feb. 2013 701-708*
- Polypropylene-Carbon Nanofiber Composites as Strain-Gauge Sensor. *Rocha, J. G.*, +, *JSEN July 2013 2603-2609*
- Thermal-Piezoresistive Resonators and Self-Sustained Oscillators for Gas Recognition and Pressure Sensing. *Guo, X.*, +, *JSEN Aug. 2013 2863-2872*
- Pipe flow**
- Three-Dimensional Flexible Thermal Sensor for Intravascular Flow Monitoring. *Tang, R.*, +, *JSEN Oct. 2013 3991-3998*
- Pipes**
- Evaluation of Electrical Capacitance Tomography Sensors for Concentric Annulus. *Ye, J.*, +, *JSEN Feb. 2013 446-456*
- Fiber Optic Bending Sensor for Water Level Monitoring: Development and Field Test: A Review. *Rosolem, J. B.*, +, *JSEN Nov. 2013 4113-4120*
- Pistons**
- Microwave Displacement Sensor for Hydraulic Devices. *Fericean, S.*, +, *JSEN Dec. 2013 4682-4689*
- Non-Intrusive Piston Position Measurement System Using Magnetic Field Measurements. *Taghvaeeyan, S.*, +, *JSEN Aug. 2013 3106-3114*
- Planar antennas**
- Capacitive Sensing of Antenna Loading With an R-C Voltage Divider in a Tunable Antenna. *Huttunen, A.*, +, *JSEN Feb. 2013 849-853*
- Plant diseases**
- Terpene Detection Based on Localized Surface Plasma Resonance of Thiolate-Modified Au Nanoparticles. *Chen, B.*, +, *JSEN April 2013 1307-1314*
- Plasma CVD**
- Modern Resonator Spectroscopy at Submillimeter Wavelengths. *Parshin, V. V.*, +, *JSEN Jan. 2013 18-23*
- Plasmonics**
- InP- and GaAs-Based Plasmonic High-Electron-Mobility Transistors for Room-Temperature Ultrahigh-Sensitive Terahertz Sensing and Imaging. *Watanabe, T.*, +, *JSEN Jan. 2013 89-99*
- Large-Area Low-Cost Flexible Plastic Nanohole Arrays for Integrated Bio-Chemical Sensing. *Chuo, Y.*, +, *JSEN Oct. 2013 3982-3990*
- THz SPICE for Modeling Detectors and Nonquadratic Response at Large Input Signal. *Gutin, A.*, +, *JSEN Jan. 2013 55-62*
- Plasticizers**
- Studies on Influence of (2-Hydroxypropyl)- β -Cyclodextrin on Properties of a New Indomethacin Electrode. *Lenik, J.*, +, *JSEN Dec. 2013 4638-4647*
- Plastics**
- Aerosol-Printed Strain Sensor Using PEDOT:PSS. *Thompson, B.*, +, *JSEN Nov. 2013 4256-4263*
- Use of Tapered Optical Fiber Sensors in Study of the Hydration Process of Cement Paste. *Luo, D.*, +, *JSEN Sept. 2013 3415-3420*
- Woven Temperature and Humidity Sensors on Flexible Plastic Substrates for E-Textile Applications. *Mattana, G.*, +, *JSEN Oct. 2013 3901-3909*
- Plates (structures)**
- Validation of Strain Gauges for Structural Health Monitoring With Bayesian Belief Networks. *Liu, Z.*, +, *JSEN Jan. 2013 400-407*
- Platinum**
- A 768-Channel CMOS Microelectrode Array With Angle Sensitive Pixels for Neuronal Recording. *Johnson, B.*, +, *JSEN Sept. 2013 3211-3218*
- A Miniaturized pH Sensor With an Embedded Counter Electrode and a Readout Circuit. *Veeramani, M. S.*, +, *JSEN May 2013 1941-1948*
- In Vivo Measurements With Robust Silicon-Based Multielectrode Arrays With Extreme Shaft Lengths. *Marton, G.*, +, *JSEN Sept. 2013 3263-3269*
- Platinum alloys**
- Effectiveness of Functionalized Nanosystems for Multimodal Molecular Sensing and Imaging in Medicine. *Casciaro, S.*, +, *JSEN June 2013 2305-2312*
- Pneumodynamics**
- A CMOS MEMS Capacitive Flow Sensor for Respiratory Monitoring. *Liao, S.-H.*, +, *JSEN May 2013 1401-1402*
- Designing Sensitive Wearable Capacitive Sensors for Activity Recognition. *Cheng, J.*, +, *JSEN Oct. 2013 3935-3947*
- Electromagnetic Biosensing of Respiratory Rate. *Padasdao, B.*, +, *JSEN Nov. 2013 4204-4211*
- Electronic Nose System Based on Quartz Crystal Microbalance Sensor for Blood Glucose and HbA1c Levels From Exhaled Breath Odor. *Saraoglu, H. M.*, +, *JSEN Nov. 2013 4229-4235*
- Fiber Bragg Grating Strain Sensor Incorporated to Monitor Patient Vital Signs During MRI. *Dziuda, L.*, +, *JSEN Dec. 2013 4986-4991*
- Modern Methods for the Description of Complex Couplings in the Neurophysiology of Respiration. *Jablonski, I.*, +, *JSEN Sept. 2013 3182-3192*
- Tidal Volume Measurement Through Non-Contact Doppler Radar With DC Reconstruction. *Massagram, W.*, +, *JSEN Sept. 2013 3397-3404*
- Poisson ratio**
- Effects of Polymer Coatings on Temperature Sensitivity of Brillouin Frequency Shift Within Double-Coated Fibers. *Gu, H.*, +, *JSEN Feb. 2013 864-869*
- Polarimetry**
- A Radio Frequency Polarimetric Sensor for Rotating Machine Analysis. *Mueller, J. G.*, +, *JSEN Dec. 2013 4866-4873*
- Theory and Design of a Novel Integrated Polarimetric Sensor Utilizing a Light Sorting Metamaterial Grating. *Mandel, I.*, +, *JSEN Feb. 2013 618-625*
- Polymer blends**
- Tapered Plastic Optical Fiber Coated With HEC/PVDF for Measurement of Relative Humidity. *Batumalay, M.*, +, *JSEN Dec. 2013 4702-4705*
- Polymer electrolytes**
- A Robust Flexible Electrochemical Gas Sensor Using Room Temperature Ionic Liquid. *Mu, X.*, +, *JSEN Oct. 2013 3976-3981*
- Detection of Hepatitis B DNA Sequences on Polyelectrolyte Based Non-Covalently Functionalized Flexible Plastic Substrates. *Goudar, V. S.*, +, *JSEN Dec. 2013 4817-4823*
- Polymer fibers**
- Piezoelectric Force Response of Novel 2D Textile Based PVDF Sensors. *Krajewski, A. S.*, +, *JSEN Dec. 2013 4743-4748*
- Soft Fiber Optic Sensors for Precision Measurement of Shear Stress and Pressure. *Zhang, Z. F.*, +, *JSEN May 2013 1478-1482*
- Polymer films**
- A Capacitive Humidity Sensor Suitable for CMOS Integration. *Saeidi, N.*, +, *JSEN Nov. 2013 4487-4495*
- A Lateral-Field-Excited Acoustic Wave Peroxide Based Explosive Sensor. *Duy, W. S. D.*, +, *JSEN Dec. 2013 4780-4785*
- Bendable Ultra-Thin Chips on Flexible Foils. *Dahiya, R. S.*, +, *JSEN Oct. 2013 4030-4037*
- Effects of Polymer Coatings on Temperature Sensitivity of Brillouin Frequency Shift Within Double-Coated Fibers. *Gu, H.*, +, *JSEN Feb. 2013 864-869*
- Flexible Sputter-Deposited Carbon Strain Sensor. *Tata, U.*, +, *JSEN Feb. 2013 444-445*
- Investigations on an Ultra-Thin Bendable Monolithic Si CMOS Image Sensor. *Dogiamis, G. C.*, +, *JSEN Oct. 2013 3892-3900*
- Polypropylene-Carbon Nanofiber Composites as Strain-Gauge Sensor. *Rocha, J. G.*, +, *JSEN July 2013 2603-2609*

Pressure Sensitization of Brillouin Frequency Shift in Optical Fibers With Double-Layer Polymer Coatings. *Zhang, G.*, +, *JSEN June 2013 2437-2441*
 Room Temperature Methane Sensor Based on Graphene Nanosheets/Polyaniline Nanocomposite Thin Film. *Wu, Z.*, +, *JSEN Feb. 2013 777-782*

Stress Averaging in PVDF Sensors For In-Plane Sinusoidal and Impact-Induced Stresses. *Kotian, K.*, +, *JSEN Nov. 2013 4444-4451*

Polymers

A Wireless Hybrid Chemical Sensor for Detection of Environmental Volatile Organic Compounds. *Chen, C.*, +, *JSEN May 2013 1748-1755*

Analysis of an MRI Compatible Force Sensor for Sensitivity and Precision. *Turkseven, M.*, +, *JSEN Feb. 2013 476-486*

Analysis of the Characteristics of PVA-Coated LPG-Based Sensors to Coating Thickness and Changes in the External Refractive Index. *Alwis, L.*, +, *JSEN March 2013 1117-1124*

Application of Microfluidic Device for Lactic Biosensor. *Chou, J.-C.*, +, *JSEN April 2013 1363-1370*

Droplet-Based Sensing: Optical Microresonator Sensors Embedded in Digital Electrowetting Microfluidics Systems. *Royal, M. W.*, +, *JSEN Dec. 2013 4733-4742*

Effects of the Set Phase Position on the Response of a SAW Resonator Oscillator Based Chemical Sensor. *Kshetrimayum, R.*, +, *JSEN May 2013 1662-1668*

Flex-to-Rigid (F2R): A Generic Platform for the Fabrication and Assembly of Flexible Sensors for Minimally Invasive Instruments. *Mimoun, B.*, +, *JSEN Oct. 2013 3873-3882*

High Sensitivity Force and Pressure Measurements Using Etched Single-mode Polymer Fiber Bragg Gratings. *Rajan, G.*, +, *JSEN May 2013 1794-1800*

Humidity-to-Frequency Sensor in CMOS Technology With Wireless Readout. *Cirmirakis, D.*, +, *JSEN March 2013 900-908*

Inkjet Printed All-Polymer Flexural Plate Wave Sensors. *Sielmann, C. J.*, +, *JSEN Oct. 2013 4005-4013*

Microfluidic Chip With Integrated a-Si:H Photodiodes for Chemiluminescence-Based Bioassays. *Caputo, D.*, +, *JSEN July 2013 2595-2602*

Microfluidic Smectite-Polymer Nanocomposite Strip Sensor for Aflatoxin Detection. *Hu, H.*, +, *JSEN May 2013 1835-1839*

Mobile Application for Impedance-Based Biomimetic Sensor Readout. *Broeders, J.*, +, *JSEN July 2013 2659-2665*

Piezoelectric Polymer Transducer Arrays for Flexible Tactile Sensors. *Seminara, L.*, +, *JSEN Oct. 2013 4022-4029*

Polymer-Based Chemicapacitor Sensor for 1-Octanol and Relative Humidity Detections at Different Temperatures and Frequencies. *Emadi, T. A.*, +, *JSEN Feb. 2013 519-527*

Sol-Gel Iridium Oxide-Based pH Sensor Array on Flexible Polyimide Substrate. *Nguyen, C. M.*, +, *JSEN Oct. 2013 3857-3864*

Spatial Sensing Using Electrical Impedance Tomography. *Loyola, B. R.*, +, *JSEN June 2013 2357-2367*

Studies on Influence of (2-Hydroxypropyl)- β -Cyclodextrin on Properties of a New Indomethacin Electrode. *Lenik, J.*, +, *JSEN Dec. 2013 4638-4647*

Weak Adsorption-Induced Surface Stress for Streptavidin Binding to Biotin Tethered to Silicon Microcantilever Arrays. *Ness, S. J.*, +, *JSEN March 2013 959-968*

Polynomials

A Robust Polynomial Filtering Framework for Mammographic Image Enhancement From Biomedical Sensors. *Bhateja, V.*, +, *JSEN Nov. 2013 4147-4156*

A Wireless-Transfer-Based Hydrogen Gas Sensing System With a Pd/AlGaIn/GaN Heterostructure Field-Effect Transistor (HFET). *Hsu, C.-S.*, +, *JSEN June 2013 2299-2304*

DuRT: Dual RSSI Trend Based Localization for Wireless Sensor Networks. *Sahu, P. K.*, +, *JSEN Aug. 2013 3115-3123*

Impedance-Based Temperature Sensing With Piezoceramic Devices. *Ilg, J.*, +, *JSEN June 2013 2442-2449*

Mixed Near-Field and Far-Field Sources Localization Using the Uniform Linear Sensor Array. *Jiang, J.-J.*, +, *JSEN Aug. 2013 3136-3143*

Porosity

Modeling and Estimating Simulated DNA Nanopore Translocation Signals. *Qiu, W.*, +, *JSEN April 2013 1216-1222*

Porous materials

A Robust Flexible Electrochemical Gas Sensor Using Room Temperature Ionic Liquid. *Mu, X.*, +, *JSEN Oct. 2013 3976-3981*

A Simple Low Power Electronic Readout for Rapid Bacteria Detection With Impedance Biosensor. *Samanta, N.*, +, *JSEN Dec. 2013 4716-4724*

Porous Tin-Oxide-Coated Regenerated Cellulose as Disposable and Low-Cost Alternative Transducer for Urea Detection. *Mahadeva, S. K.*, +, *JSEN June 2013 2223-2228*

Portable instruments

A Novel Glove Monitoring System Used to Quantify Neurological Symptoms During Deep-Brain Stimulation Surgery. *Dai, H.*, +, *JSEN Sept. 2013 3193-3202*

A Wireless-Transfer-Based Hydrogen Gas Sensing System With a Pd/AlGaIn/GaN Heterostructure Field-Effect Transistor (HFET). *Hsu, C.-S.*, +, *JSEN June 2013 2299-2304*

An Automatic Evaluation Procedure for 3-D Scanners in Robotics Applications. *Moller, B.*, +, *JSEN Feb. 2013 870-878*

Droplet-Based Sensing: Optical Microresonator Sensors Embedded in Digital Electrowetting Microfluidics Systems. *Royal, M. W.*, +, *JSEN Dec. 2013 4733-4742*

Ratiometric Voltage-to-Frequency Converter for Long-Life Autonomous Portable Equipment. *Azcona, C.*, +, *JSEN June 2013 2382-2390*

Time Horizon Selection Using Feature Feedback for the Implementation of an E-Nose System. *Jeong, G.-M.*, +, *JSEN May 2013 1575-1581*

Pose estimation

High-Resolution Touch Floor System Using Particle Swarm Optimization Neural Network. *Kim, H.*, +, *JSEN June 2013 2084-2093*

Position measurement

Characterization of Magnetic Immunity of an Ironless Inductive Position Sensor. *Masi, A.*, +, *JSEN March 2013 941-948*

Geometrical Analysis of Localization Error in Stereo Vision Systems. *Fooladgar, F.*, +, *JSEN Nov. 2013 4236-4246*

Inertial Sensor Based Indoor Localization and Monitoring System for Emergency Responders. *Zhang, R.*, +, *JSEN Feb. 2013 838-848*

Microwave Displacement Sensor for Hydraulic Devices. *Fericean, S.*, +, *JSEN Dec. 2013 4682-4689*

Modeling of High-Frequency Electromagnetic Effects on an Ironless Inductive Position Sensor. *Danisi, A.*, +, *JSEN Dec. 2013 4663-4670*

Non-Intrusive Piston Position Measurement System Using Magnetic Field Measurements. *Taghvaeeyan, S.*, +, *JSEN Aug. 2013 3106-3114*

Positron emission tomography

An Innovative Strategy for Correctly Interpreting Simultaneous Acquisition of EEG Signals and fMRI Images. *Fabbiano, L.*, +, *JSEN Sept. 2013 3175-3181*

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High Polarization and Low-Repulsion HfO₂ Thin Film for Alkali Metal Ion Detections by Plasma System With a Complementary Filter. *Huang, C.-H.*, +, *JSEN June 2013 2459-2465*

Potential transformers

Novel Optimization Algorithm to Demodulate a PZT-FBG Sensor in AC High Voltage Measurements. *de Assumpcao Ribeiro, B.*, +, *JSEN April 2013 1259-1264*

Potentiometers

Application of Microfluidic Device for Lactic Biosensor. *Chou, J.-C.*, +, *JSEN April 2013 1363-1370*

Chemically Modified Multiwalled Carbon Nanotubes as Efficient Material for Construction of New Al(III) Ion Selective Carbon Paste Electrode. *Ghaedi, M.*, +, *JSEN Jan. 2013 321-327*

Power

A Micropreconcentrator Design Using Low Temperature Cofired Ceramics Technology for Acetone Detection Applications. *Rydzos, A.*, +, *JSEN May 2013 1889-1896*

Power apparatus

Harvesting Energy From Magnetic Fields to Power Condition Monitoring Sensors. *Roscoe, N. M.*, +, *JSEN June 2013 2263-2270*

Power cables

Design and Application of Surface Wave Sensors for Nonintrusive Power Line Fault Detection. *Alam, M. N.*, +, *JSEN Jan. 2013 339-347*

Operation-State Monitoring and Energization-Status Identification for Underground Power Cables by Magnetic Field Sensing. *Sun, X.*, +, *JSEN Nov. 2013 4527-4533*

Power consumption

A Closed-Loop Remote Powering Link for Wireless Cortical Implants. *Silay, K. M.*, +, *JSEN Sept. 2013 3226-3235*

An Innovative Strategy for Correctly Interpreting Simultaneous Acquisition of EEG Signals and fMRI Images. *Fabbiano, L.*, +, *JSEN Sept. 2013 3175-3181*

Analytical Modeling of Square Microhotplate for Gas Sensing Application. *Saxena, G.*, +, *JSEN Dec. 2013 4851-4859*

- Ratiometric Voltage-to-Frequency Converter for Long-Life Autonomous Portable Equipment. *Azcona, C.*, +, *JSEN June 2013 2382-2390*
- Very Low 1/f Noise and Radiation-Hardened CMOS Preamplifier for High-Sensitivity Search Coil Magnetometers. *Rhouni, A.*, +, *JSEN Jan. 2013 159-166*
- Power conversion**
- Joint Modeling of Piezoelectric Transducers and Power Conversion Circuits for Energy Harvesting Applications. *Romani, A.*, +, *JSEN March 2013 916-925*
- Power measurement**
- Planar Optical Waveguide Platform for Gas Sensing Using Liquid Crystal. *Ho, W. F.*, +, *JSEN July 2013 2521-2522*
- Power supply quality**
- Rough-Set-Based Feature Selection and Classification for Power Quality Sensing Device Employing Correlation Techniques. *Dalai, S.*, +, *JSEN Feb. 2013 563-573*
- Power system faults**
- Rough-Set-Based Feature Selection and Classification for Power Quality Sensing Device Employing Correlation Techniques. *Dalai, S.*, +, *JSEN Feb. 2013 563-573*
- Power system measurement**
- Stick-On Piezoelectromagnetic AC Current Monitoring of Circuit Breaker Panels. *Xu, Q. R.*, +, *JSEN March 2013 1055-1064*
- Power transmission (mechanical)**
- Gearbox Speed Sensor Design and Performance Optimization. *Maniyala, J. O.*, +, *JSEN Feb. 2013 629-636*
- Preamplifiers**
- A Fully Integrated Hall Sensor Microsystem for Contactless Current Measurement. *Ajbl, A.*, +, *JSEN June 2013 2271-2278*
- Dual-Resonant Search Coil for Natural Electromagnetic Waves in the Near-Earth Environment. *Ozaki, M.*, +, *JSEN Feb. 2013 644-650*
- Very Low 1/f Noise and Radiation-Hardened CMOS Preamplifier for High-Sensitivity Search Coil Magnetometers. *Rhouni, A.*, +, *JSEN Jan. 2013 159-166*
- Prediction theory**
- HMM-Based Human Fall Detection and Prediction Method Using Tri-Axial Accelerometer. *Tong, L.*, +, *JSEN May 2013 1849-1856*
- Pressure measurement**
- A Closed-Loop Hydrogel-Based Chemical Sensor. *Schulz, V.*, +, *JSEN March 2013 994-1002*
- A Flexible and Robust Large Scale Capacitive Tactile System for Robots. *Maiolino, P.*, +, *JSEN Oct. 2013 3910-3917*
- High Sensitivity Force and Pressure Measurements Using Etched Single-mode Polymer Fiber Bragg Gratings. *Rajan, G.*, +, *JSEN May 2013 1794-1800*
- MEMS-Integrated Load Cell for Measuring Pressure, Erosion, and Deposition in Dynamic Environmental Flows. *Hobby, M. J.*, +, *JSEN Feb. 2013 492-500*
- Soft Fiber Optic Sensors for Precision Measurement of Shear Stress and Pressure. *Zhang, Z. F.*, +, *JSEN May 2013 1478-1482*
- Pressure sensors**
- A Closed-Loop Hydrogel-Based Chemical Sensor. *Schulz, V.*, +, *JSEN March 2013 994-1002*
- A Highly Sensitive and Low-Cost Sagnac Loop Based Pressure Sensor. *Cho, L.-H.*, +, *JSEN Aug. 2013 3073-3078*
- All Fiber-Optic Sensor for Monitoring Pressure Fluctuations in ON/OFF State. *Nath, P.*, +, *JSEN April 2013 1148-1152*
- An Electromechanical System Based on Carbon Nanotube Sensors to Detect Apnea. *Liu, H.-C.*, +, *JSEN July 2013 2737-2741*
- Design Evaluation of a High Birefringence Single Mode Optical Fiber-Based Sensor for Lateral Pressure Monitoring Applications. *Karimi, M.*, +, *JSEN Nov. 2013 4459-4464*
- Doping Characteristics of Polycrystalline Silicon Deposited by Chemical Transport at Atmospheric Pressure and its Application to MEMS Sensor. *Naito, T.*, +, *JSEN Aug. 2013 2899-2905*
- eCushion: A Textile Pressure Sensor Array Design and Calibration for Sitting Posture Analysis. *Xu, W.*, +, *JSEN Oct. 2013 3926-3934*
- Embedded Flexible Force Sensor for In-Situ Tire-Road Interaction Measurements. *Zhang, Y.*, +, *JSEN May 2013 1756-1765*
- Flexible and Surface-Mountable Piezoelectric Sensor Arrays for Underwater Sensing in Marine Vehicles. *Asadnia, M.*, +, *JSEN Oct. 2013 3918-3925*
- High Sensitivity Force and Pressure Measurements Using Etched Single-mode Polymer Fiber Bragg Gratings. *Rajan, G.*, +, *JSEN May 2013 1794-1800*
- MEMS-Based Intraoperative Monitoring System for Improved Safety in Lumbar Surgery. *Liu, X.*, +, *JSEN May 2013 1541-1548*
- MEMS-Integrated Load Cell for Measuring Pressure, Erosion, and Deposition in Dynamic Environmental Flows. *Hobby, M. J.*, +, *JSEN Feb. 2013 492-500*
- Pressure Sensitization of Brillouin Frequency Shift in Optical Fibers With Double-Layer Polymer Coatings. *Zhang, G.*, +, *JSEN June 2013 2437-2441*
- Thermal-Piezoresistive Resonators and Self-Sustained Oscillators for Gas Recognition and Pressure Sensing. *Guo, X.*, +, *JSEN Aug. 2013 2863-2872*
- Wireless Surface Acoustic Wave Pressure and Temperature Sensor With Unique Identification Based on LiNbO₃. *Binder, A.*, +, *JSEN May 2013 1801-1805*
- Pressure transducers**
- Flexible and Surface-Mountable Piezoelectric Sensor Arrays for Underwater Sensing in Marine Vehicles. *Asadnia, M.*, +, *JSEN Oct. 2013 3918-3925*
- Principal component analysis**
- Classification of Gases/Odors Using Dynamic Responses of Thick Film Gas Sensor Array. *Sunny, +*, *JSEN Dec. 2013 4924-4930*
- Fish Freshness Monitoring Using an E-Tongue Based on Polypyrrole Modified Screen-Printed Electrodes. *Apetrei, I. M.*, +, *JSEN July 2013 2548-2554*
- Sensor Array for Water Analysis Based on Interdigitated Electrodes Modified With Fiber Films of Poly(Lactic Acid)/Multiwalled Carbon Nanotubes. *Oliveira, J. E.*, +, *JSEN Feb. 2013 759-766*
- Printed circuit design**
- Two-Mass MEMS Velocity Sensor: Internal Feedback Loop Design. *Alshehri, A.*, +, *JSEN March 2013 1003-1011*
- Printed circuit interconnections**
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- Printed circuit layout**
- Arrow-Pointer Sensor Design for Low-Cost Water Meter. *Hsia, S.-C.*, +, *JSEN April 2013 1281-1287*
- Printed circuit manufacture**
- Integration of f-MWCNT Sensor and Printed Circuits on Paper Substrate. *Xie, L.*, +, *JSEN Oct. 2013 3948-3956*
- Printed circuits**
- Design and Modeling of a Wide Dynamic-Range Hardness Sensor for Biological Tissue Assessment. *Zhao, S.*, +, *JSEN Dec. 2013 4613-4620*
- Two-Stage Interface Circuit Design for a 32-Color Resolution Optical Sensor. *Assaad, M.*, +, *JSEN Feb. 2013 610-617*
- Probability**
- Data Persistency in Wireless Sensor Networks Using Distributed Luby Transform Codes. *Jafarizadeh, S.*, +, *JSEN Dec. 2013 4880-4890*
- Information Abstraction for Heterogeneous Real World Internet Data. *Ganz, F.*, +, *JSEN Oct. 2013 3793-3805*
- Maximizing the Lifetime of *k*-Discrete Barrier Coverage Using Mobile Sensors. *Du, J.*, +, *JSEN Dec. 2013 4690-4701*
- On Design of Collaborative Mobile Sensor Networks for Deadline-Sensitive Mobile Target Detection. *Hsu, C.-C.*, +, *JSEN Aug. 2013 2962-2972*
- On Network Lifetime Expectancy With Realistic Sensing and Traffic Generation Model in Wireless Sensor Networks. *Chakraborty, A.*, +, *JSEN July 2013 2771-2779*
- Phase Transition Analysis of Target Coverage Problem in Wireless Sensor Networks. *Mini, S.*, +, *JSEN July 2013 2742-2749*
- Portable Passive Millimeter-Wave Sensor for Detecting Concealed Weapons and Explosives Hidden on a Human Body. *Kapilevich, B.*, +, *JSEN Nov. 2013 4224-4228*
- Sensor Fusion and Target Tracking Using Evidential Data Association. *Dallil, A.*, +, *JSEN Jan. 2013 285-293*
- Tradeoff Between Throughput and Energy Consumption in Multirate Wireless Sensor Networks. *Xie, D.*, +, *JSEN Oct. 2013 3667-3676*
- Probes**
- Numerical Model of the Capacitive Probe's Capacitance for Measuring the External Loads Transmitted by the Bearing's Rolling Elements of Rotating Machines. *Rasolofondraibe, L.*, +, *JSEN Aug. 2013 3067-3072*
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Programmable logic devices

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Projectiles

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Prosthetics

A Closed-Loop Remote Powering Link for Wireless Cortical Implants. *Silay, K. M.*, +, *JSEN Sept. 2013 3226-3235*

In Vivo Measurements With Robust Silicon-Based Multielectrode Arrays With Extreme Shaft Lengths. *Marton, G.*, +, *JSEN Sept. 2013 3263-3269*

Mechanomyography Sensor Development, Related Signal Processing, and Applications: A Systematic Review. *Islam, M. A.*, +, *JSEN July 2013 2499-2516*

Wireless Energy and Data Transfer for In-Vivo Epileptic Focus Localization. *Yilmaz, G.*, +, *JSEN Nov. 2013 4172-4179*

Proteins

Detection of Transplant Rejection Chemokine Protein Biomarker in Physiological Salt Concentration. *Tulip, F. S.*, +, *JSEN Feb. 2013 438-439*

Distributed Feedback Laser Biosensor Noise Reduction. *Tan, Y.*, +, *JSEN May 2013 1972-1978*

Droplet-Based Sensing: Optical Microresonator Sensors Embedded in Digital Electrowetting Microfluidics Systems. *Royal, M. W.*, +, *JSEN Dec. 2013 4733-4742*

Evaluation of Oxidized-Low-Density Lipoproteins Using Kelvin Force Microscopy. *Takeda, S.*, +, *JSEN Sept. 2013 3449-3453*

Weak Adsorption-Induced Surface Stress for Streptavidin Binding to Biotin Tethered to Silicon Microcantilever Arrays. *Ness, S. J.*, +, *JSEN March 2013 959-968*

Protocols

A Multi-Bit Identification Protocol for RFID Tag Reading. *Wang, Y.*, +, *JSEN Oct. 2013 3527-3536*

Cross-Layer Solutions for Extended-Range Wireless Sensor Networks. *Lin, C.-K.*, +, *JSEN March 2013 1044-1054*

Edge Mining the Internet of Things. *Gaura, E. I.*, +, *JSEN Oct. 2013 3816-3825*

Fuzzy Logic Based Multidimensional Link Quality Estimation for Multi-Hop Wireless Sensor Networks. *Guo, Z.-Q.*, +, *JSEN Oct. 2013 3605-3615*

Guest Editorial - Special Issue on Internet of Things (IoT): Architecture, Protocols and Services. *Wang, C.*, +, *JSEN Oct. 2013 3505-3510*

Lithe: Lightweight Secure CoAP for the Internet of Things. *Raza, S.*, +, *JSEN Oct. 2013 3711-3720*

Self-Configuring Scheduling Protocol for Ultrasonic Sensor Systems. *Srinivasan, S.*, +, *JSEN July 2013 2517-2518*

Prototypes

Nondestructive Evaluation of Diesel Spray Holes Using Piezoresistive Sensors. *Peiner, E.*, +, *JSEN Feb. 2013 701-708*

Psychology

Ocular Biometric Measurements to Diagnose Neurological Disorders Due to Wilson Disease. *Morello, R.*, +, *JSEN Sept. 2013 3203-3210*

Public key cryptography

Practical Secure Communication for Integrating Wireless Sensor Networks Into the Internet of Things. *Li, F.*, +, *JSEN Oct. 2013 3677-3684*

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Q**Q-factor**

A Wireless Passive Sensor for Temperature Compensated Remote pH Monitoring. *Bhadra, S.*, +, *JSEN June 2013 2428-2436*

Displacement Sensor Based on Diamond-Shaped Tapered Split Ring Resonator. *Horestani, A. K.*, +, *JSEN April 2013 1153-1160*

Multi-Walled Carbon Nanotubes/Graphene Oxide Composites for Humidity Sensing. *Li, X.*, +, *JSEN Dec. 2013 4749-4756*

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Quadratic programming

A Robust Inclinometer System With Accurate Calibration of Tilt and Azimuth Angles. *Yang, W.*, +, *JSEN June 2013 2313-2321*

Quadrature amplitude modulation

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Wireless Sensor Networks and the Internet of Things: Optimal Estimation With Nonuniform Quantization and Bandwidth Allocation. *Zhou, Y.*, +, *JSEN Oct. 2013 3568-3574*

Quality of service

An Intelligent Hybrid MAC With Traffic-Differentiation-Based QoS for Wireless Sensor Networks. *Arifuzzaman, M.*, +, *JSEN June 2013 2391-2399*

QoI-Aware Energy-Efficient Participatory Crowdsourcing. *Liu, C. H.*, +, *JSEN Oct. 2013 3742-3753*

The Impact of Rank Attack on Network Topology of Routing Protocol for Low-Power and Lossy Networks. *Le, A.*, +, *JSEN Oct. 2013 3685-3692*

Quantization (signal)

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Geometrical Analysis of Localization Error in Stereo Vision Systems. *Fooladgar, F.*, +, *JSEN Nov. 2013 4236-4246*

Quantum cascade lasers

Quantum Cascade Laser-Based Sensing for Carbon Sequestration Leakage Monitoring. *Escarra, M. D.*, +, *JSEN June 2013 2348-2356*

Self-Mixing Interferometry With Terahertz Quantum Cascade Lasers. *Valavanis, A.*, +, *JSEN Jan. 2013 37-43*

Quantum dots

Quantum-Dot-Based Aptamer Beacons for K⁺ Detection. *Wu, T.-C.*, +, *JSEN May 2013 1549-1553*

Quartz crystal microbalances

A Rapid and Cost Effective Method for Measurement of Cyclosporine. *Mir-mohseni, A.*, +, *JSEN Nov. 2013 4542-4545*

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Electronic Nose System Based on Quartz Crystal Microbalance Sensor for Blood Glucose and HbA1c Levels From Exhaled Breath Odor. *Saraoglu, H. M.*, +, *JSEN Nov. 2013 4229-4235*

Improvement of Odor Blender Using Electroosmotic Pumps and SAW Atomizer for Low-Volatile Scents. *Ariyakul, Y.*, +, *JSEN Dec. 2013 4918-4923*

Metal-Silver Based Electrodes as Sensitive Surfaces for Electrochemical Detection of Thio-Heterocycles. *Lai-Hao, W.*, +, *JSEN Sept. 2013 3442-3448*

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Query processing

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Radar applications

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Radar detection

- Active Millimeter Wave Sensor for Standoff Concealed Threat Detection. *Andrews, D. A.*, +, *JSEN Dec. 2013 4948-4954*
- Cancellation of Unwanted Doppler Radar Sensor Motion Using Empirical Mode Decomposition. *Mostafanezhad, L.*, +, *JSEN May 2013 1897-1904*
- W-Band Chirp Radar Mock-Up Using a Glow Discharge Detector. *Rozban, D.*, +, *JSEN Jan. 2013 139-145*

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- W-Band Chirp Radar Mock-Up Using a Glow Discharge Detector. *Rozban, D.*, +, *JSEN Jan. 2013 139-145*

Radar receivers

- Active Millimeter Wave Sensor for Standoff Concealed Threat Detection. *Andrews, D. A.*, +, *JSEN Dec. 2013 4948-4954*

Radar resolution

- Robust Classification Scheme for Airplane Targets With Low Resolution Radar Based on EMD-CLEAN Feature Extraction Method. *Du, L.*, +, *JSEN Dec. 2013 4648-4662*

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- Active Millimeter Wave Sensor for Standoff Concealed Threat Detection. *Andrews, D. A.*, +, *JSEN Dec. 2013 4948-4954*
- Aliasing-Free Moving Target Detection in Random Pulse Repetition Interval Radar Based on Compressed Sensing. *Liu, Z.*, +, *JSEN July 2013 2523-2534*
- Tidal Volume Measurement Through Non-Contact Doppler Radar With DC Reconstruction. *Massagram, W.*, +, *JSEN Sept. 2013 3397-3404*

Radial basis function networks

- Adaptive Neuro-Fuzzy Inference System-Based Remote Bulk Soil Moisture Estimation: Using CosmOz Cosmic Ray Sensor. *Dutta, R.*, +, *JSEN June 2013 2374-2381*

Radiation

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- A Low-Power Directional Gamma-Ray Sensor System for Long-Term Radiation Monitoring. *Schrage, C.*, +, *JSEN July 2013 2610-2618*
- Development of Mobile Radiation Monitoring System Utilizing Smartphone and Its Field Tests in Fukushima. *Ishigaki, Y.*, +, *JSEN Oct. 2013 3520-3526*

Radiation quenching

- Sensitive Detection of Nitroaromatics With Colloidal Conjugated Polymer Nanoparticles. *Satpathi, S.*, +, *JSEN June 2013 2329-2333*
- Simultaneous Single Detector Measurement of Multiple Fluorescent Sources. *Dixit, R.*, +, *JSEN May 2013 1965-1971*

Radio frequency

- Subharmonic Mixing With Field-Effect Transistors: Theory and Experiment at 639 GHz High Above f_T . *Lisaukas, A.*, +, *JSEN Jan. 2013 124-132*

Radio links

- Cross-Layer Solutions for Extended-Range Wireless Sensor Networks. *Lin, C.-K.*, +, *JSEN March 2013 1044-1054*
- Wireless Energy and Data Transfer for In-Vivo Epileptic Focus Localization. *Yilmaz, G.*, +, *JSEN Nov. 2013 4172-4179*

Radio spectrum management

- A Novel Sensing Nodes and Decision Node Selection Method for Energy Efficiency of Cooperative Spectrum Sensing in Cognitive Sensor Networks. *Najimi, M.*, +, *JSEN May 2013 1610-1621*
- Optimal Truncated Ordered Sequential Cooperative Spectrum Sensing in Cognitive Radio. *Nguyen-Thanh, N.*, +, *JSEN Nov. 2013 4188-4195*

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- Distributed Fuzzy Logic-Based Relay Selection Algorithm for Cooperative Wireless Sensor Networks. *Brante, G.*, +, *JSEN Nov. 2013 4375-4386*

Radioactive sources

- A Low-Power Directional Gamma-Ray Sensor System for Long-Term Radiation Monitoring. *Schrage, C.*, +, *JSEN July 2013 2610-2618*

Radiofrequency identification

- A Multi-Bit Identification Protocol for RFID Tag Reading. *Wang, Y.*, +, *JSEN Oct. 2013 3527-3536*
- Customized Ultra High Frequency Radio Frequency Identification Tags and Reader Antennas Enabling Reliable Mobile Robot Navigation. *Catarinucci, L.*, +, *JSEN Feb. 2013 783-791*
- Efficient ASIC Implementation and Analysis of Two EPC-C1G2 RFID Authentication Protocols. *Martin, H.*, +, *JSEN Oct. 2013 3537-3547*

- Guest Editorial - Special Issue on Internet of Things (IoT): Architecture, Protocols and Services. *Wang, C.*, +, *JSEN Oct. 2013 3505-3510*
- Item-Level RFID Tag Location Sensing Utilizing Reader Antenna Spatial Diversity. *Shao, S.*, +, *JSEN Oct. 2013 3767-3774*
- Novel Semi-Passive RFID System for Indoor Localization. *Athalye, A.*, +, *JSEN Feb. 2013 528-537*

- Printed Humidity Sensor With Memory Functionality for Passive RFID Tags. *Gao, J.*, +, *JSEN May 2013 1824-1834*

- RFID Tag Antenna-Based Sensing for Pervasive Surface Crack Detection. *Kalansuriya, P.*, +, *JSEN May 2013 1564-1570*

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- A Tessellation-Based Localized Chain Construction Scheme for Chain-Oriented Sensor Networks. *Mamun, Q.*, +, *JSEN July 2013 2648-2658*
- An Experimental Study for Inter-User Interference Mitigation in Wireless Body Sensor Networks. *Cao, B.*, +, *JSEN Oct. 2013 3585-3595*

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- A Radio Frequency Polarimetric Sensor for Rotating Machine Analysis. *Mueller, J. G.*, +, *JSEN Dec. 2013 4866-4873*

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- A Low-Power Directional Gamma-Ray Sensor System for Long-Term Radiation Monitoring. *Schrage, C.*, +, *JSEN July 2013 2610-2618*

Radiometry

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- Systematic Underestimation of MODIS Global Chlorophyll-a Concentration Estimation Algorithm Associating With Scale Effect. *Chen, J.*, +, *JSEN May 2013 1656-1661*

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- Wheel Flat Detection in High-Speed Railway Systems Using Fiber Bragg Gratings. *Filigrano, M. L.*, +, *JSEN Dec. 2013 4808-4816*

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- Modeling Latency and Reliability of Hybrid Technology Networking. *Shrestha, P. L.*, +, *JSEN Oct. 2013 3616-3624*

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- Distributed Fuzzy Logic-Based Relay Selection Algorithm for Cooperative Wireless Sensor Networks. *Brante, G.*, +, *JSEN Nov. 2013 4375-4386*
- HMM-Based Human Fall Detection and Prediction Method Using Tri-Axial Accelerometer. *Tong, L.*, +, *JSEN May 2013 1849-1856*
- New Semidefinite Relaxation Method for Acoustic Energy-Based Source Localization. *Wang, G.*, +, *JSEN May 2013 1514-1521*

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- Microfluidic Chip With Integrated a-Si:H Photodiodes for Chemiluminescence-Based Bioassays. *Caputo, D.*, +, *JSEN July 2013 2595-2602*

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- A 768-Channel CMOS Microelectrode Array With Angle Sensitive Pixels for Neuronal Recording. *Johnson, B.*, +, *JSEN Sept. 2013 3211-3218*
- A Bulk-Micromachined Fully Differential MEMS Accelerometer With Split Interdigitated Fingers. *Aydin, O.*, +, *JSEN Aug. 2013 2914-2921*

- A Miniaturized pH Sensor With an Embedded Counter Electrode and a Readout Circuit. *Veeramani, M. S.*, +, *JSEN May 2013 1941-1948*
- A Novel Closed-Loop Readout Topology for Monolithically Integrated Surface Acoustic Wave Sensors. *Rakshit, S.*, +, *JSEN Nov. 2013 4264-4270*
- A Simple Low Power Electronic Readout for Rapid Bacteria Detection With Impedance Biosensor. *Samanta, N.*, +, *JSEN Dec. 2013 4716-4724*
- A Wireless-Transfer-Based Hydrogen Gas Sensing System With a Pd/AlGaIn/GaN Heterostructure Field-Effect Transistor (HFET). *Hsu, C.-S.*, +, *JSEN June 2013 2299-2304*
- Investigations on an Ultra-Thin Bendable Monolithic Si CMOS Image Sensor. *Dogiamis, G. C.*, +, *JSEN Oct. 2013 3892-3900*
- Woven Temperature and Humidity Sensors on Flexible Plastic Substrates for E-Textile Applications. *Mattana, G.*, +, *JSEN Oct. 2013 3901-3909*
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- Refractive index**
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- Differentiation Between Analyte Adsorption and Homogenous Index Sensing in WGM Biodetection. *Charlebois, M.*, +, *JSEN Jan. 2013 229-233*
- Engineering the Sensitivity and Response Time of Edge-Emitting Laser Hydrogen Sensors. *Griffin, B. G.*, +, *JSEN Aug. 2013 3098-3105*
- Inline Microfiber Mach–Zehnder Interferometer for High Temperature Sensing. *Jasim, A. A.*, +, *JSEN Feb. 2013 626-628*
- Large-Area Low-Cost Flexible Plastic Nanohole Arrays for Integrated Bio-Chemical Sensing. *Chuo, Y.*, +, *JSEN Oct. 2013 3982-3990*
- Laser-Machined Cascaded Micro Cavities for Simultaneous Measurement of Dual Parameters Under High Temperature. *Ran, Z.*, +, *JSEN May 2013 1988-1991*
- Layer-by-Layer Structured AuNP Sensors for Terpene Vapor Detection. *Chen, B.*, +, *JSEN Nov. 2013 4212-4219*
- Liquid Refractive Index Sensor Based on a Polarization-Maintaining Fiber Loop Mirror. *Wang, J.*, +, *JSEN May 2013 1721-1724*
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- Reflective Refractometer Based on a Thin-Core Fiber Tailored Multimode Fiber Bragg Grating. *Rong, Q.*, +, *JSEN Nov. 2013 4356-4360*
- Simultaneous Measurement of Refractive Index and Temperature Using a Michelson Fiber Interferometer With a Hi-Bi Fiber Probe. *Zhang, J.*, +, *JSEN June 2013 2061-2065*
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- All-Fiber Modal Interferometer Based on a Joint-Taper-Joint Fiber Structure for Refractive Index Sensing With High Sensitivity. *Chen, J.*, +, *JSEN July 2013 2780-2785*
- Analysis of Integrated Optofluidic Lab-on-a-Chip Sensor Based on Refractive Index and Absorbance Sensing. *Krishnaswamy, N.*, +, *JSEN May 2013 1730-1741*
- Comparative Study of Microfiber and Side-Polished Optical Fiber Sensors for Refractometry in Microfluidics. *Dudus, A.*, +, *JSEN May 2013 1594-1601*
- Considerations for Lossy-Mode Resonance-Based Optical Fiber Sensor. *Sanchez, P.*, +, *JSEN April 2013 1167-1171*
- Enhanced Refractometer Based on Periodically Tapered Small Core Single-mode Fiber. *Wang, P.*, +, *JSEN Jan. 2013 180-185*
- Fiber-Optic Refractive Index Sensor Based on the Cone-Based Round Structure. *Jeong, H.-H.*, +, *JSEN Jan. 2013 351-358*
- High-Sensitive Double-Hole Defect Refractive Index Sensor Based on 2-D Photonic Crystal. *Shiramin, L. A.*, +, *JSEN May 2013 1483-1486*
- Optimization of the Local Evanescent Array-Coupled Optoelectronic Sensing Chip for Enhanced, Portable, Real-Time Sensing. *Erickson, T. A.*, +, *JSEN May 2013 1905-1913*
- Planar Optical Waveguide Platform for Gas Sensing Using Liquid Crystal. *Ho, W. F.*, +, *JSEN July 2013 2521-2522*
- Reflective Fiber-Optic Refractometer Based on a Compact Hi-Bi Fiber Tip. *Rong, Q.*, +, *JSEN May 2013 1473-1477*
- Simple Fiber-Optic Refractive Index Sensor Based On Fresnel Reflection and Optical Switch. *Xu, W.*, +, *JSEN May 2013 1571-1574*
- Single-Mode-Multimode Fiber Structure Based Sensor for Simultaneous Measurement of Refractive Index and Temperature. *Xue, H.*, +, *JSEN Nov. 2013 4220-4223*
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- Relay networks (telecommunication)**
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- Reliability**
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- Architecture of Noninvasive Real Time Visual Monitoring System for Dial Type Measuring Instrument. *Jaffery, Z. A.*, +, *JSEN April 2013 1236-1244*
- Fiber Optic Bending Sensor for Water Level Monitoring: Development and Field Test: A Review. *Rosolem, J. B.*, +, *JSEN Nov. 2013 4113-4120*
- Flexible Wireless Antenna Sensor: A Review. *Huang, H.*, +, *JSEN Oct. 2013 3865-3872*
- Measurement Theory and Experimental Study of Fault-Tolerant Fully Pre-Stressed Parallel Six-Component Force Sensor. *Yao, J.*, +, *JSEN Sept. 2013 3472-3482*
- Remote sensing**
- A Radio Frequency Polarimetric Sensor for Rotating Machine Analysis. *Mueller, J. G.*, +, *JSEN Dec. 2013 4866-4873*

- Active Whisking-Based Remotely Deployable NDE Sensor. *Macleod, C. N.*, +, *JSEN Nov. 2013 4320-4328*
- An Efficient Hybrid Classification Approach for Land Use/Land Cover Analysis in a Semi-Desert Area Using ETM+ and LISS-III Sensor. *Kumar, P.*, +, *JSEN June 2013 2161-2165*
- Remote System for Monitoring Animal Models With Single-Metabolite Bio-Nano-Sensors. *Carrara, S.*, +, *JSEN March 2013 1018-1024*
- Systematic Underestimation of MODIS Global Chlorophyll-a Concentration Estimation Algorithm Associating With Scale Effect. *Chen, J.*, +, *JSEN May 2013 1656-1661*
- Remote sensing by radar**
- A Deramping-Based Multiband Radar Sensor Concept With Enhanced ISAR Capabilities. *Munoz-Ferreras, J.-M.*, +, *JSEN Sept. 2013 3361-3368*
- Rendering (computer graphics)**
- Active Millimeter Wave Sensor for Standoff Concealed Threat Detection. *Andrews, D. A.*, +, *JSEN Dec. 2013 4948-4954*
- Reservoirs**
- Fiber Optic Bending Sensor for Water Level Monitoring: Development and Field Test: A Review. *Rosolem, J. B.*, +, *JSEN Nov. 2013 4113-4120*
- Resins**
- A Flexible Transparent Touch Panel Based on Ionic Liquid Channel. *Shikida, M.*, +, *JSEN Sept. 2013 3490-3495*
- Wireless Energy and Data Transfer for In-Vivo Epileptic Focus Localization. *Yilmaz, G.*, +, *JSEN Nov. 2013 4172-4179*
- Resistors**
- 2-D Differential Folded Vertical Hall Device Fabricated on a P-Type Substrate Using CMOS Technology. *Sung, G.-M.*, +, *JSEN June 2013 2253-2262*
- A Wireless Passive Sensor for Temperature Compensated Remote pH Monitoring. *Bhadra, S.*, +, *JSEN June 2013 2428-2436*
- Aerosol-Printed Strain Sensor Using PEDOT:PSS. *Thompson, B.*, +, *JSEN Nov. 2013 4256-4263*
- An Integrated Amplifier With Passive Neutralization of Myoelectric Interference From Neural Recording Tripoles. *Demosthenous, A.*, +, *JSEN Sept. 2013 3236-3248*
- Capacitive Sensing of Antenna Loading With an R-C Voltage Divider in a Tunable Antenna. *Huttunen, A.*, +, *JSEN Feb. 2013 849-853*
- Frequency Response Improvement for Inertial Magnetolectric Velocity Sensor Using Frequency-Selected Compensation Network. *Chen, X.*, +, *JSEN Nov. 2013 4141-4146*
- High-Resolution Touch Floor System Using Particle Swarm Optimization Neural Network. *Kim, H.*, +, *JSEN June 2013 2084-2093*
- MEMS Force Sensor in a Flexible Substrate Using Nichrome Piezoresistors. *Ahmed, M.*, +, *JSEN Oct. 2013 4081-4089*
- New Flash ADC Scheme With Maximal 13 Bit Variable Resolution and Reduced Clipped Noise for High-Performance Imaging Sensor. *Jin, X.*, +, *JSEN Jan. 2013 167-171*
- Pressure-Sensitive Sampling Wands for Homeland Security Applications. *Staymates, M. E.*, +, *JSEN Dec. 2013 4844-4850*
- Resonant frequency**
- Selective Weighing of Individual Microparticles Using a Hybrid Micromanipulator-Nanomechanical Resonator System. *Chan, B.-D.*, +, *JSEN Aug. 2013 2857-2862*
- Resonators**
- Rotation Sensor Based on Horn-Shaped Split Ring Resonator. *Horestani, A. K.*, +, *JSEN Aug. 2013 3014-3015*
- Resource allocation**
- Comparative Study of Task Allocation Strategies in Multirobot Systems. *Hatime, H.*, +, *JSEN Jan. 2013 253-262*
- Scalable Channel Allocation and Access Scheduling for Wireless Internet-of-Things. *Wu, D.*, +, *JSEN Oct. 2013 3596-3604*
- Response surface methodology**
- Fast Design Space Exploration of Vibration-Based Energy Harvesting Wireless Sensors. *Kazmierski, T. J.*, +, *JSEN Nov. 2013 4393-4401*
- Retroreflectors**
- Detection and Monitoring of Microparticles Under Skin by Optical Coherence Tomography as an Approach to Continuous Glucose Sensing Using Implanted Retroreflectors. *Wang, S.*, +, *JSEN Nov. 2013 4534-4541*
- Reviews**
- Modern Methods for the Description of Complex Couplings in the Neurophysiology of Respiration. *Jablonski, I.*, +, *JSEN Sept. 2013 3182-3192*
- RF signals**
- Subharmonic Mixing With Field-Effect Transistors: Theory and Experiment at 639 GHz High Above f_T . *Lisaukas, A.*, +, *JSEN Jan. 2013 124-132*
- Ring lasers**
- A Switchable Erbium Doped Fiber Ring Laser System for Temperature Sensors Multiplexing. *Rota-Rodrigo, S.*, +, *JSEN June 2013 2279-2283*
- Rings (structures)**
- Numerical Model of the Capacitive Probe's Capacitance for Measuring the External Loads Transmitted by the Bearing's Rolling Elements of Rotating Machines. *Rasolofondraibe, L.*, +, *JSEN Aug. 2013 3067-3072*
- Risk analysis**
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- RLC circuits**
- THz SPICE for Modeling Detectors and Nonquadratic Response at Large Input Signal. *Gutin, A.*, +, *JSEN Jan. 2013 55-62*
- Road safety**
- Embedded Flexible Force Sensor for In-Situ Tire-Road Interaction Measurements. *Zhang, Y.*, +, *JSEN May 2013 1756-1765*
- Robot dynamics**
- Discrete-Time H_∞ Filtering for Mobile Robot Localization Using Wireless Sensor Network. *Hur, H.*, +, *JSEN Jan. 2013 245-252*
- Robot sensing systems**
- Log-Logistic Modeling of Sensory Flow Delays in Networked Telerobots. *Gago-Benitez, A.*, +, *JSEN Aug. 2013 2944-2953*
- Robot vision**
- A Stereo Vision-Based Self-Localization System. *Chiang, J.-S.*, +, *JSEN May 2013 1677-1689*
- An Automatic Evaluation Procedure for 3-D Scanners in Robotics Applications. *Moller, B.*, +, *JSEN Feb. 2013 870-878*
- Robotic welding**
- Novel Online Re-Calibration Method for Multi-Axis Force/Torque Sensor of ITER Welding/Machining Robot. *Roobahani, H.*, +, *JSEN Nov. 2013 4432-4443*
- Robots**
- Electrollocation Sensors in Conducting Water Bio-Inspired by Electric Fish. *Servagent, N.*, +, *JSEN May 2013 1865-1882*
- Fast Automatic Target Detection System Based on a Visible Image Sensor and Ripple Algorithm. *Lan, J.*, +, *JSEN July 2013 2720-2728*
- Rolling bearings**
- Numerical Model of the Capacitive Probe's Capacitance for Measuring the External Loads Transmitted by the Bearing's Rolling Elements of Rotating Machines. *Rasolofondraibe, L.*, +, *JSEN Aug. 2013 3067-3072*
- Rotation measurement**
- Rotation Sensor Based on Horn-Shaped Split Ring Resonator. *Horestani, A. K.*, +, *JSEN Aug. 2013 3014-3015*
- Speckle-Based Optical Sensor for Low Field Faraday Rotation Measurement. *Anand, A.*, +, *JSEN Feb. 2013 723-727*
- Rotors**
- Monitoring of Actuation Conditions in a Micro-Turbo-Generator. *Beyaz, M. I.*, +, *JSEN Aug. 2013 2937-2943*
- Rough set theory**
- Rough-Set-Based Feature Selection and Classification for Power Quality Sensing Device Employing Correlation Techniques. *Dalai, S.*, +, *JSEN Feb. 2013 563-573*
- Routing protocols**
- Convergence of MANET and WSN in IoT Urban Scenarios. *Bellavista, P.*, +, *JSEN Oct. 2013 3558-3567*
- Mobicast Routing Protocol for Underwater Sensor Networks. *Chen, Y.-S.*, +, *JSEN Feb. 2013 737-749*
- Optimized Beaconless Geo-Routing for Smart Utility Networks. *Bader, A.*, +, *JSEN Dec. 2013 4587-4588*
- The Impact of Rank Attack on Network Topology of Routing Protocol for Low-Power and Lossy Networks. *Le, A.*, +, *JSEN Oct. 2013 3685-3692*
- Rubber**
- Embedded Flexible Force Sensor for In-Situ Tire-Road Interaction Measurements. *Zhang, Y.*, +, *JSEN May 2013 1756-1765*
- Ruthenium compounds**
- Application of Microfluidic Device for Lactic Biosensor. *Chou, J.-C.*, +, *JSEN April 2013 1363-1370*

S

S-parameters

One-Port De-Embedding Technique for the Quasi-Optical Characterization of Integrated Components. *Hadjiloucas, S.*, +, *JSEN Jan. 2013 111-123*

Safety

Analysis and Back-Analysis for Temperature Field of Concrete Arch Dam During Construction Period Based on Temperature Data Measured by DTS. *Su, H.*, +, *JSEN May 2013 1403-1412*

Sagnac interferometers

A Highly Sensitive and Low-Cost Sagnac Loop Based Pressure Sensor. *Cho, L.-H.*, +, *JSEN Aug. 2013 3073-3078*

Four Point Probe Micro-Optical Gyroscope With Self Calibration Control. *Mitatha, S.*, +, *JSEN July 2013 2705-2710*

Sampling methods

Cooperative Robotic Structure Mapping Using Wireless Measurements—A Comparison of Random and Coordinated Sampling Patterns. *Gonzalez-Ruiz, A.*, +, *JSEN July 2013 2571-2580*

Nonuniform Compressive Sensing for Heterogeneous Wireless Sensor Networks. *Shen, Y.*, +, *JSEN June 2013 2120-2128*

Pressure-Sensitive Sampling Wands for Homeland Security Applications. *Staymates, M. E.*, +, *JSEN Dec. 2013 4844-4850*

Satellite communication

Effective Data Collection Via Satellite-Routed Sensor System (SRSS) to Re-align Global-Scaled Internet of Things. *Kawamoto, Y.*, +, *JSEN Oct. 2013 3645-3654*

Scanning electron microscopy

WO₃ Hydrogen Resistive Gas Sensor and Its Wide-Range Current-Mode Electronic Read-Out Circuit. *De Marcellis, A.*, +, *JSEN July 2013 2792-2798*

High Dynamic Range Methanol Sensor Based on Aligned ZnO Nanorods. *Banerjee, N.*, +, *JSEN May 2013 1669-1676*

Long Period Fiber Grating Humidity Sensor With Gelatin/Cobalt Chloride Coating. *Nidhi*, +, *JSEN Nov. 2013 4139-4140*

Metal-Silver Based Electrodes as Sensitive Surfaces for Electrochemical Detection of Thio-Heterocycles. *Lai-Hao, W.*, +, *JSEN Sept. 2013 3442-3448*

Room Temperature Methane Sensor Based on Graphene Nanosheets/Polyaniline Nanocomposite Thin Film. *Wu, Z.*, +, *JSEN Feb. 2013 777-782*

Sensor Array for Water Analysis Based on Interdigitated Electrodes Modified With Fiber Films of Poly(Lactic Acid)/Multiwalled Carbon Nanotubes. *Oliveira, J. E.*, +, *JSEN Feb. 2013 759-766*

Scanning tunneling microscopy

A Dual Probe STM Imaging System and a Low Noise Switched-Capacitor Transimpedance Amplifier. *Tang, Y.*, +, *JSEN Aug. 2013 2984-2992*

Scheduling

An Intelligent Hybrid MAC With Traffic-Differentiation-Based QoS for Wireless Sensor Networks. *Arifuzzaman, M.*, +, *JSEN June 2013 2391-2399*

Dynamically Reconfigurable Hardware With a Novel Scheduling Strategy in Energy-Harvesting Sensor Networks. *Li, Y.*, +, *JSEN May 2013 2032-2038*

On Optimal Scheduling in Duty-Cycled Industrial IoT Applications Using IEEE802.15.4e TSCH. *Palattella, M. R.*, +, *JSEN Oct. 2013 3655-3666*

Self-Configuring Scheduling Protocol for Ultrasonic Sensor Systems. *Srinivasan, S.*, +, *JSEN July 2013 2517-2518*

Schottky barriers

Low-Frequency Noise Characteristics of ZnO Nanorods Schottky Barrier Photodetectors. *Chen, T.-P.*, +, *JSEN June 2013 2115-2119*

Schottky diodes

Study on a Metal–Insulator–Silicon Hydrogen Sensor With LaTiON as Gate Insulator. *Yu, J.*, +, *JSEN May 2013 1534-1540*

Scintillation

A Low-Power Directional Gamma-Ray Sensor System for Long-Term Radiation Monitoring. *Schrage, C.*, +, *JSEN July 2013 2610-2618*

Search problems

Vision-Based Displacement Sensor for Monitoring Dynamic Response Using Robust Object Search Algorithm. *Fukuda, Y.*, +, *JSEN Dec. 2013 4725-4732*

Secondary cells

Battery-Friendly Packet Transmission Algorithms for Wireless Sensor Networks. *Li, H.*, +, *JSEN Oct. 2013 3548-3557*

Secondary ion mass spectroscopy

NH₃ Sensing by *p*-ZnO Thin Films. *Balakrishnan, L. N.*, +, *JSEN June 2013 2055-2060*

Security of data

LitHe: Lightweight Secure CoAP for the Internet of Things. *Raza, S.*, +, *JSEN Oct. 2013 3711-3720*

Sediments

MEMS-Integrated Load Cell for Measuring Pressure, Erosion, and Deposition in Dynamic Environmental Flows. *Hobby, M. J.*, +, *JSEN Feb. 2013 492-500*

Seismic waves

All-Metal Optical Fiber Accelerometer With Low Transverse Sensitivity for Seismic Monitoring. *Jiang, D.*, +, *JSEN Nov. 2013 4556-4560*

Seismology

All-Metal Optical Fiber Accelerometer With Low Transverse Sensitivity for Seismic Monitoring. *Jiang, D.*, +, *JSEN Nov. 2013 4556-4560*

Selenium

Characterization of Low Dark-Current Lateral Amorphous-Selenium Metal-Semiconductor-Metal Photodetectors. *Abbaszadeh, S.*, +, *JSEN May 2013 1452-1458*

Self-assembly

Considerations for Lossy-Mode Resonance-Based Optical Fiber Sensor. *Sanchez, P.*, +, *JSEN April 2013 1167-1171*

Detection of Transplant Rejection Chemokine Protein Biomarker in Physiological Salt Concentration. *Tulip, F. S.*, +, *JSEN Feb. 2013 438-439*

High-Efficient Chip to Wafer Self-Alignment and Bonding Applicable to MEMS-IC Flexible Integration. *Lu, J.*, +, *JSEN Feb. 2013 651-656*

Highly Sensitive Lateral Field Excited Piezoelectric Film Acoustic Enzyme Biosensor. *Chen, D.*, +, *JSEN June 2013 2217-2222*

Self-organizing feature maps

Comparative Study of Task Allocation Strategies in Multirobot Systems. *Hatime, H.*, +, *JSEN Jan. 2013 253-262*

Semantic Web

Performance Evaluation of South Esk Hydrological Sensor Web: Unsupervised Machine Learning and Semantic Linked Data Approach. *Dutta, R.*, +, *JSEN Oct. 2013 3806-3815*

Semiconductor counters

THz SPICE for Modeling Detectors and Nonquadratic Response at Large Input Signal. *Gutin, A.*, +, *JSEN Jan. 2013 55-62*

Semiconductor device breakdown

Design and Characterization of High-Voltage NMOS Structures in a 0.5 μm Standard CMOS Process. *Lee, T.-H.*, +, *JSEN Aug. 2013 2906-2913*

Semiconductor device measurement

Characteristics of Flexible Thin-Film Transistors With ZnO Channels. *Ji, L.-W.*, +, *JSEN Dec. 2013 4940-4943*

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Design and Characterization of High-Voltage NMOS Structures in a 0.5 μm Standard CMOS Process. *Lee, T.-H.*, +, *JSEN Aug. 2013 2906-2913*

THz SPICE for Modeling Detectors and Nonquadratic Response at Large Input Signal. *Gutin, A.*, +, *JSEN Jan. 2013 55-62*

Semiconductor device noise

2-D Differential Folded Vertical Hall Device Fabricated on a P-Type Substrate Using CMOS Technology. *Sung, G.-M.*, +, *JSEN June 2013 2253-2262*

Low-Frequency Noise Characteristics of ZnO Nanorods Schottky Barrier Photodetectors. *Chen, T.-P.*, +, *JSEN June 2013 2115-2119*

Semiconductor diodes

Continuous Wave Spectroscopic Terahertz Imaging With InGaAs Bow-Tie Diodes at Room Temperature. *Kasalynas, I.*, +, *JSEN Jan. 2013 50-54*

Semiconductor growth

$\beta\text{-Ga}_2\text{O}_3$ Nanowires-Based Humidity Sensors Prepared on GaN/Sapphire Substrate. *Tsai, T.-Y.*, +, *JSEN Dec. 2013 4891-4896*

Semiconductor lasers

Engineering the Sensitivity and Response Time of Edge-Emitting Laser Hydrogen Sensors. *Griffin, B. G.*, +, *JSEN Aug. 2013 3098-3105*

Semiconductor materials

$\beta\text{-Ga}_2\text{O}_3$ Nanowires-Based Humidity Sensors Prepared on GaN/Sapphire Substrate. *Tsai, T.-Y.*, +, *JSEN Dec. 2013 4891-4896*

Semiconductor quantum wells

InGaN/GaN Multi-Quantum-Well Metal-Semiconductor-Metal Photodetectors With Beta-Ga₂O₃ Cap Layers. *Huang, Z.-D.*, +, *JSEN April 2013 1187-1191*

Semiconductor technology

Nondestructive Evaluation of Diesel Spray Holes Using Piezoresistive Sensors. *Peiner, E.*, +, *JSEN Feb. 2013 701-708*

Semiconductor thin films

- Characteristics of Flexible Thin-Film Transistors With ZnO Channels. *Ji, L.-W.*, +, *JSEN Dec. 2013 4940-4943*
- Highly Sensitive Lateral Field Excited Piezoelectric Film Acoustic Enzyme Biosensor. *Chen, D.*, +, *JSEN June 2013 2217-2222*

Sensing systems

- Guest Editorial: Special issue on flexible sensors and sensing systems. *Celikk-Butler, Z.*, +, *JSEN Oct. 2013 3854-3856*

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- A Fully Integrated Hall Sensor Microsystem for Contactless Current Measurement. *Ajbl, A.*, +, *JSEN June 2013 2271-2278*
- Characteristics of an Optical Fiber Hydrogen Gas Sensor Based on a Palladium and Yttrium Alloy Thin Film. *Liu, Y.*, +, *JSEN July 2013 2699-2704*
- Coded Corrugated Microfluidic Sidewalls for Code Division Multiplexing. *Javanmard, M.*, +, *JSEN May 2013 1399-1400*
- Design Evaluation of a High Birefringence Single Mode Optical Fiber-Based Sensor for Lateral Pressure Monitoring Applications. *Karimi, M.*, +, *JSEN Nov. 2013 4459-4464*
- Droplet-Based Sensing: Optical Microresonator Sensors Embedded in Digital Electrowetting Microfluidics Systems. *Royal, M. W.*, +, *JSEN Dec. 2013 4733-4742*
- High Sensitivity Force and Pressure Measurements Using Etched Single-mode Polymer Fiber Bragg Gratings. *Rajan, G.*, +, *JSEN May 2013 1794-1800*
- Highly Resolved Sub-Terahertz Vibrational Spectroscopy of Biological Macromolecules and Cells. *Globus, T.*, +, *JSEN Jan. 2013 72-79*
- Highly Sensitive Lateral Field Excited Piezoelectric Film Acoustic Enzyme Biosensor. *Chen, D.*, +, *JSEN June 2013 2217-2222*
- InP- and GaAs-Based Plasmonic High-Electron-Mobility Transistors for Room-Temperature Ultrahigh-Sensitive Terahertz Sensing and Imaging. *Watanabe, T.*, +, *JSEN Jan. 2013 89-99*
- Ion Sensor for the Quantification of Sodium in Sweat Samples. *Wujcik, E. K.*, +, *JSEN Sept. 2013 3430-3436*
- MEMS Force Sensor in a Flexible Substrate Using Nichrome Piezoresistors. *Ahmed, M.*, +, *JSEN Oct. 2013 4081-4089*
- Package Stress Monitor to Compensate for the Piezo-Hall Effect in CMOS Hall Sensors. *Huber, S.*, +, *JSEN Aug. 2013 2890-2898*
- Polymer-Based Chemicapacitor Sensor for 1-Octanol and Relative Humidity Detections at Different Temperatures and Frequencies. *Emadi, T. A.*, +, *JSEN Feb. 2013 519-527*
- Terpene Detection Based on Localized Surface Plasma Resonance of Thiolate-Modified Au Nanoparticles. *Chen, B.*, +, *JSEN April 2013 1307-1314*
- Vapor Discrimination With Single- and Multitransducer Arrays of Nanoparticle-Coated Chemiresistors and Resonators. *Scholten, K.*, +, *JSEN June 2013 2146-2154*
- Very Low 1/f Noise and Radiation-Hardened CMOS Preamplifier for High-Sensitivity Search Coil Magnetometers. *Rhouni, A.*, +, *JSEN Jan. 2013 159-166*

Sensitivity analysis

- A Flexible and Robust Large Scale Capacitive Tactile System for Robots. *Maiolino, P.*, +, *JSEN Oct. 2013 3910-3917*

Sensor arrays

- A 768-Channel CMOS Microelectrode Array With Angle Sensitive Pixels for Neuronal Recording. *Johnson, B.*, +, *JSEN Sept. 2013 3211-3218*
- A Dual Probe STM Imaging System and a Low Noise Switched-Capacitor Transimpedance Amplifier. *Tang, Y.*, +, *JSEN Aug. 2013 2984-2992*
- A Robust Flexible Electrochemical Gas Sensor Using Room Temperature Ionic Liquid. *Mu, X.*, +, *JSEN Oct. 2013 3976-3981*
- Classification of Gases/Odors Using Dynamic Responses of Thick Film Gas Sensor Array. *Sunny, +*, *JSEN Dec. 2013 4924-4930*
- Constant-Hue-Based Color Filter Array Demosaicking Sensor for Digital Still Camera Implementation. *Fan, Y.-C.*, +, *JSEN July 2013 2586-2594*
- Design of Highly Selective Metamaterials for Sensing Platforms. *Song, K.*, +, *JSEN Sept. 2013 3377-3385*
- Development of a Flexible 3-D Tactile Sensor System for Anthropomorphic Artificial Hand. *Zhang, T.*, +, *JSEN Feb. 2013 510-518*
- eCushion: A Textile Pressure Sensor Array Design and Calibration for Sitting Posture Analysis. *Xu, W.*, +, *JSEN Oct. 2013 3926-3934*
- Effects of Wavelength and Optical Path Length in Design of Fingernail Touch Force Sensing. *Abu-Khalaf, J. M.*, +, *JSEN Feb. 2013 807-815*

- Fish Freshness Monitoring Using an E-Tongue Based on Polypyrrole Modified Screen-Printed Electrodes. *Apetrei, I. M.*, +, *JSEN July 2013 2548-2554*
- Flexible and Surface-Mountable Piezoelectric Sensor Arrays for Underwater Sensing in Marine Vehicles. *Asadnia, M.*, +, *JSEN Oct. 2013 3918-3925*

- Game Theoretic Pattern Analysis for Identification of Odors/Gases Using Response of a Poorly Selective Sensor Array. *Kumar, R.*, +, *JSEN March 2013 1110-1116*

- Gases/Odors Identification With Artificial Immune Recognition System Using Thick Film Gas Sensor Array Responses. *Sunny, +*, *JSEN Aug. 2013 3039-3045*

- High-Performance Interface Electronic System for a 13 × 13 Flexible Biomechanical Ground Reaction Sensor Array Achieving a Gait Ground Velocity Resolution of 100 μm/sec. *Guo, Q.*, +, *JSEN Nov. 2013 4496-4505*

- Infrared Camera Using a Single Nano-Photodetector. *Chen, H.*, +, *JSEN March 2013 949-958*

- Measurement of Tension in a String Using an Array of Capacitive Force Sensors. *Singal, K.*, +, *JSEN Feb. 2013 792-800*

- Microfluidic Smectite-Polymer Nanocomposite Strip Sensor for Aflatoxin Detection. *Hu, H.*, +, *JSEN May 2013 1835-1839*

- Mixed Near-Field and Far-Field Sources Localization Using the Uniform Linear Sensor Array. *Jiang, J.-J.*, +, *JSEN Aug. 2013 3136-3143*

- Multiple Surface-Based Biosensors for Enhanced Molecular Detection in Fluid Flow Systems. *Abolfath-Beygi, M.*, +, *JSEN April 2013 1265-1273*

- Optimization of the Local Evanescent Array-Coupled Optoelectronic Sensing Chip for Enhanced, Portable, Real-Time Sensing. *Erickson, T. A.*, +, *JSEN May 2013 1905-1913*

- Sensor Array for Water Analysis Based on Interdigitated Electrodes Modified With Fiber Films of Poly(Lactic Acid)/Multiwalled Carbon Nanotubes. *Oliveira, J. E.*, +, *JSEN Feb. 2013 759-766*

- Sol-Gel Iridium Oxide-Based pH Sensor Array on Flexible Polyimide Substrate. *Nguyen, C. M.*, +, *JSEN Oct. 2013 3857-3864*

- Vapor Discrimination With Single- and Multitransducer Arrays of Nanoparticle-Coated Chemiresistors and Resonators. *Scholten, K.*, +, *JSEN June 2013 2146-2154*

- Weak Adsorption-Induced Surface Stress for Streptavidin Binding to Biotin Tethered to Silicon Microcantilever Arrays. *Ness, S. J.*, +, *JSEN March 2013 959-968*

Sensor fusion

- A Delay-Aware Network Structure for Wireless Sensor Networks With In-Network Data Fusion. *Cheng, C.-T.*, +, *JSEN May 2013 1622-1631*

- A Design and Assessment of a Direction Finding Proximity Fuzer Sensor. *Choi, J.-H.*, +, *JSEN Aug. 2013 3079-3089*

- A Novel Sensing Nodes and Decision Node Selection Method for Energy Efficiency of Cooperative Spectrum Sensing in Cognitive Sensor Networks. *Najimi, M.*, +, *JSEN May 2013 1610-1621*

- Centralized Fusion Estimators for Multisensor Systems With Random Sensor Delays, Multiple Packet Dropouts and Uncertain Observations. *Ma, J.*, +, *JSEN April 2013 1228-1235*

- Directions Toward Effective Utilization of Tactile Skin: A Review. *Dahiya, R. S.*, +, *JSEN Nov. 2013 4121-4138*

- Inertial Sensor Based Indoor Localization and Monitoring System for Emergency Responders. *Zhang, R.*, +, *JSEN Feb. 2013 838-848*

- Optimal Truncated Ordered Sequential Cooperative Spectrum Sensing in Cognitive Radio. *Nguyen-Thanh, N.*, +, *JSEN Nov. 2013 4188-4195*

- Power Constrained Partially Coherent Distributed Detection Over Fading Multiaccess Channels. *Xu, Z.*, +, *JSEN July 2013 2729-2736*

- Sensor Fusion and Target Tracking Using Evidential Data Association. *Dallil, A.*, +, *JSEN Jan. 2013 285-293*

- Square Root Cubature Information Filter. *Chandra, K. P. B.*, +, *JSEN Feb. 2013 750-758*

Sensor placement

- A Bipopulation-Based Evolutionary Algorithm for Solving Full Area Coverage Problems. *Seok, J.-H.*, +, *JSEN Dec. 2013 4796-4807*

- DuRT: Dual RSSI Trend Based Localization for Wireless Sensor Networks. *Sahu, P. K.*, +, *JSEN Aug. 2013 3115-3123*

- Maximizing the Lifetime of *k*-Discrete Barrier Coverage Using Mobile Sensors. *Du, J.*, +, *JSEN Dec. 2013 4690-4701*

- On the Use of Modified Cramér-Rao Bound in Sensor Deployment. *Pino-Povedano, S.*, +, *JSEN Nov. 2013 4163-4171*

Sensor systems

Corrections to "An electromechanical system based on carbon nanotube sensors to detect apnea" [Jul 13 2737-2741]. *Liu, H.-C., +, JSEN Dec. 2013 4992*

Guest Editorial Special Issue on Sensors and Sensing Systems for Neurophysiology. *Lay-Ekuakille, A., +, JSEN Sept. 2013 3165*

Guest Editorial—Special Issue on Selected Papers From the 11th IEEE Sensors Conference 2012. *Fang, W., +, JSEN Aug. 2013 2809*

Log-Logistic Modeling of Sensory Flow Delays in Networked Telerobots. *Gago-Benitez, A., +, JSEN Aug. 2013 2944-2953*

Sensors

A CMOS Sensor for Measurement of Cerebral Optical Coefficients Using Non-Invasive Frequency Domain Near Infrared Spectroscopy. *Shahlekar, C. C., +, JSEN Sept. 2013 3166-3174*

A Distributed Localization Algorithm for Wireless Sensor Networks Based on the Solutions of Spatially-Constrained Local Problems. *Cota-Ruiz, J., +, JSEN June 2013 2181-2191*

A Radio Frequency Polarimetric Sensor for Rotating Machine Analysis. *Mueller, J. G., +, JSEN Dec. 2013 4866-4873*

Active Whisking-Based Remotely Deployable NDE Sensor. *Macleod, C. N., +, JSEN Nov. 2013 4320-4328*

An Associative Relational Impact of Water Quality on Crop Yield: A Comprehensive Index Analysis Using LISS-III Sensor. *Singh, K., +, JSEN Dec. 2013 4912-4917*

Arrow-Pointer Sensor Design for Low-Cost Water Meter. *Hsia, S.-C., +, JSEN April 2013 1281-1287*

Assessing Spinal Loading Using the Kinect Depth Sensor: A Feasibility Study. *Ning, X., +, JSEN April 2013 1139-1140*

Cancellation of Unwanted Doppler Radar Sensor Motion Using Empirical Mode Decomposition. *Mostafanezhad, I., +, JSEN May 2013 1897-1904*

Comparison of Acoustic Wave Sensors With Different Cut LiNbO₃ Working on Pseudo-LFE Mode. *Zhang, Z., +, JSEN June 2013 2109-2114*

Corrosion Energy: A Novel Source to Power the Wireless Sensor. *Qiao, G., +, JSEN April 2013 1141-1142*

Development of a Non-Contact Sensing Method for Scratching Activity Measurement. *Kurihara, Y., +, JSEN Sept. 2013 3325-3330*

Distributed Clustering With Directional Antennas for Wireless Sensor Networks. *Chen, Y.-C., +, JSEN June 2013 2166-2180*

Flex-to-Rigid (F2R): A Generic Platform for the Fabrication and Assembly of Flexible Sensors for Minimally Invasive Instruments. *Mimoun, B., +, JSEN Oct. 2013 3873-3882*

Gearbox Speed Sensor Design and Performance Optimization. *Manyala, J. O., +, JSEN Feb. 2013 629-636*

Guest Editorial Special Issue on Selected Papers From the IEEE Sensors 2011 Conference. *Mignani, A. G., +, JSEN March 2013 889*

Guest Editorial—Special Issue on Selected Papers From the 11th IEEE Sensors Conference 2012. *Fang, W., +, JSEN Aug. 2013 2809*

Historical-Log Recording System for Crack Opening and Growth Based on Mechanoluminescent Flexible Sensor. *Terasaki, N., +, JSEN Oct. 2013 3999-4004*

Novel Wavelet-mFCM Algorithm for Environmental Sensor Drift Correction. *Dutta, R., +, JSEN July 2013 2519-2520*

Rotation Sensor Based on Horn-Shaped Split Ring Resonator. *Horestani, A. K., +, JSEN Aug. 2013 3014-3015*

Self-Configuring Scheduling Protocol for Ultrasonic Sensor Systems. *Srinivasan, S., +, JSEN July 2013 2517-2518*

Sensing as a Service: Challenges, Solutions and Future Directions. *Sheng, X., +, JSEN Oct. 2013 3733-3741*

Spatial Sensing Using Electrical Impedance Tomography. *Loyola, B. R., +, JSEN June 2013 2357-2367*

SPR-Based Optical Fiber Sensors Using Gold-Silver Alloy Particles as the Active Sensing Material. *Tu, H., +, JSEN June 2013 2192-2199*

Stretchable Conductors Enabled by Metal Coated Polymer Spheres. *Vardoy, A.-S. B., +, JSEN Oct. 2013 4049-4055*

Thermoelectric Energy Harvesting of Human Body Heat for Wearable Sensors. *Leonov, V., +, JSEN June 2013 2284-2291*

Very Low 1/f Noise and Radiation-Hardened CMOS Preamplifier for High-Sensitivity Search Coil Magnetometers. *Rhouni, A., +, JSEN Jan. 2013 159-166*

Sequential codes

Distributed Block Arithmetic Coding for Equiprobable Sources. *Zhou, J., +, JSEN July 2013 2750-2756*

Shafts

Gearbox Speed Sensor Design and Performance Optimization. *Manyala, J. O., +, JSEN Feb. 2013 629-636*

Numerical Model of the Capacitive Probe's Capacitance for Measuring the External Loads Transmitted by the Bearing's Rolling Elements of Rotating Machines. *Rasolofondraibe, L., +, JSEN Aug. 2013 3067-3072*

Shape memory effects

Low-Power Circuits and Energy Harvesting for Structural Health Monitoring of Bridges. *Wardlaw, J. L., +, JSEN Feb. 2013 709-722*

Shear deformation

Polypropylene-Carbon Nanofiber Composites as Strain-Gauge Sensor. *Rocha, J. G., +, JSEN July 2013 2603-2609*

Soft Fiber Optic Sensors for Precision Measurement of Shear Stress and Pressure. *Zhang, Z. F., +, JSEN May 2013 1478-1482*

Shear flow

A Novel Flexible Thermoelectric Sensor for Intravascular Flow Assessment. *van der Horst, A., +, JSEN Oct. 2013 3883-3891*

Shear strength

Friction in Totally Optical Robotic Finger Oriented on Shear Force Measurement. *Massaro, A., +, JSEN Feb. 2013 548-555*

Shielding

Advanced Forward Methods for Complex Wire Fault Modeling. *Lundquist, E. J., +, JSEN April 2013 1172-1179*

Shot noise

Modeling and Estimating Simulated DNA Nanopore Translocation Signals. *Qiu, W., +, JSEN April 2013 1216-1222*

Signal classification

Surface EMG Based Hand Manipulation Identification Via Nonlinear Feature Extraction and Classification. *Ju, Z., +, JSEN Sept. 2013 3302-3311*

Wireless Medical-Embedded Systems: A Review of Signal-Processing Techniques for Classification. *Ghasemzadeh, H., +, JSEN Feb. 2013 423-437*

Signal conditioning circuits

MEMS-Integrated Load Cell for Measuring Pressure, Erosion, and Deposition in Dynamic Environmental Flows. *Hobby, M. J., +, JSEN Feb. 2013 492-500*

Relaxation Oscillator-Based Active Bridge Circuit for Linearly Converting Resistance to Frequency of Resistive Sensor. *Islam, T., +, JSEN May 2013 1507-1513*

Signal denoising

Distributed Feedback Laser Biosensor Noise Reduction. *Tan, Y., +, JSEN May 2013 1972-1978*

Efficient Signal Conditioning Techniques for Brain Activity in Remote Health Monitoring Network. *Karthik, G. V. S., +, JSEN Sept. 2013 3276-3283*

Signal detection

Active Millimeter Wave Sensor for Standoff Concealed Threat Detection. *Andrews, D. A., +, JSEN Dec. 2013 4948-4954*

Coded Corrugated Microfluidic Sidewalls for Code Division Multiplexing. *Javanmard, M., +, JSEN May 2013 1399-1400*

Low-Complexity Hybrid Time-Frequency Audio Signal Pattern Detection. *Martalo, M., +, JSEN Feb. 2013 501-509*

Optimal Truncated Ordered Sequential Cooperative Spectrum Sensing in Cognitive Radio. *Nguyen-Thanh, N., +, JSEN Nov. 2013 4188-4195*

Parameters Identification and Modeling of High-Frequency Current Transducer for Partial Discharge Measurements. *Shafiq, M., +, JSEN March 2013 1081-1091*

Pulse Detection by Gated Synchronous Demodulation. *Efthymiou, S., +, JSEN Sept. 2013 3349-3360*

Recovering Amplitudes and Phases From Saturated Multifrequency Sinusoid Signals. *Hu, C., +, JSEN Nov. 2013 4569-4575*

Signal Detection for Optical AC and DC Voltage Sensors Based on Pockels Effect. *Li, H., +, JSEN June 2013 2245-2252*

Spectrum Sensing in Opportunity-Heterogeneous Cognitive Sensor Networks: How to Cooperate?. *Ding, G., +, JSEN Nov. 2013 4247-4255*

Signal processing

Capacitive Sensor for Measuring the Filled of Post-Tensioned Ducts. Experimental Setup, Modeling and Signal Processing. *Bore, T., +, JSEN Feb. 2013 457-465*

Design and Analysis of an Embedded Accelerometer Coupled Self-Mixing Laser Displacement Sensor. *Zabit, U., +, JSEN June 2013 2200-2207*

Experimental Study and Implementation of a Novel Digital Closed-Loop Control System for Coriolis Mass Flowmeter. *Hu, C., +, JSEN Aug. 2013 3032-3038*

Signal processing equipment

Behavior of Low Frequency Signal Through Stainless Steel Enclosures in Noncontact Safety Switch Application. *Farrak, M.*, +, *JSEN Jan. 2013 299-305*

Study of Digital Dissolved Oxygen Analytical Sensor of ppb-Level. *Qi, X.*, +, *JSEN Nov. 2013 4279-4286*

Signal reconstruction

Analysis of Energy Efficiency of Compressive Sensing in Wireless Sensor Networks. *Karakus, C.*, +, *JSEN May 2013 1999-2008*

Nonuniform Compressive Sensing for Heterogeneous Wireless Sensor Networks. *Shen, Y.*, +, *JSEN June 2013 2120-2128*

Signal resolution

Two New Estimation Algorithms for Sensor Gain and Phase Errors Based on Different Data Models. *Jiang, J.*, +, *JSEN May 2013 1921-1930*

Signal sampling

Particle Filtering for Acoustic Source Tracking in Impulsive Noise With Alpha-Stable Process. *Zhong, X.*, +, *JSEN Feb. 2013 589-600*

Spatial Resolution Improvement of Distributed Raman Temperature Measurement System. *Wang, Z. L.*, +, *JSEN Nov. 2013 4271-4278*

Silicon

A Distributed Localization Algorithm for Wireless Sensor Networks Based on the Solutions of Spatially-Constrained Local Problems. *Cota-Ruiz, J.*, +, *JSEN June 2013 2181-2191*

A Novel Closed-Loop Readout Topology for Monolithically Integrated Surface Acoustic Wave Sensors. *Rakshit, S.*, +, *JSEN Nov. 2013 4264-4270*

A Simple Low Power Electronic Readout for Rapid Bacteria Detection With Impedance Biosensor. *Samanta, N.*, +, *JSEN Dec. 2013 4716-4724*

Bendable Ultra-Thin Chips on Flexible Foils. *Dahiya, R. S.*, +, *JSEN Oct. 2013 4030-4037*

Design and Modeling of a Wide Dynamic-Range Hardness Sensor for Biological Tissue Assessment. *Zhao, S.*, +, *JSEN Dec. 2013 4613-4620*

Doping Characteristics of Polycrystalline Silicon Deposited by Chemical Transport at Atmospheric Pressure and its Application to MEMS Sensor. *Naito, T.*, +, *JSEN Aug. 2013 2899-2905*

Effects of Polymer Coatings on Temperature Sensitivity of Brillouin Frequency Shift Within Double-Coated Fibers. *Gu, H.*, +, *JSEN Feb. 2013 864-869*

Flex-to-Rigid (F2R): A Generic Platform for the Fabrication and Assembly of Flexible Sensors for Minimally Invasive Instruments. *Mimoun, B.*, +, *JSEN Oct. 2013 3873-3882*

GaN-Based S₀-Wave Sensors on Silicon for Chemical and Biological Sensing in Liquid Environments. *Lu, X.*, +, *JSEN April 2013 1245-1251*

High-Efficient Chip to Wafer Self-Alignment and Bonding Applicable to MEMS-IC Flexible Integration. *Lu, J.*, +, *JSEN Feb. 2013 651-656*

In Vivo Measurements With Robust Silicon-Based Multielectrode Arrays With Extreme Shaft Lengths. *Marton, G.*, +, *JSEN Sept. 2013 3263-3269*

Investigations on an Ultra-Thin Bendable Monolithic Si CMOS Image Sensor. *Dogiamis, G. C.*, +, *JSEN Oct. 2013 3892-3900*

Isotropically Etched Silicon Microarrays for Rapid Breast Cancer Cell Capture. *Nikkhah, M.*, +, *JSEN March 2013 1125-1132*

Microfluidic Chip With Integrated a-Si:H Photodiodes for Chemiluminescence-Based Bioassays. *Caputo, D.*, +, *JSEN July 2013 2595-2602*

Model-Based Low-Noise Readout Integrated Circuit Design for Uncooled Microbolometers. *Lv, J.*, +, *JSEN April 2013 1207-1215*

Nondestructive Evaluation of Diesel Spray Holes Using Piezoresistive Sensors. *Peiner, E.*, +, *JSEN Feb. 2013 701-708*

Optimization and Microfabrication of High Performance Silicon-Based MEMS Microspeaker. *Shahosseini, I.*, +, *JSEN Jan. 2013 273-284*

Packageless AlN/ZnO/Si Structure for SAW Devices Applications. *Legrani, O.*, +, *JSEN Feb. 2013 487-491*

Post-CMOS and Post-MEMS Compatible Flexible Skin Technologies: A Review. *Xu, Y.*, +, *JSEN Oct. 2013 3962-3975*

Sensor for Thermal Gas Analysis Based on Micromachined Silicon-Microwires. *Kliche, K.*, +, *JSEN July 2013 2626-2635*

Stability of Silicon Microelectromechanical Systems Resonant Thermometers. *Ng, E. J.*, +, *JSEN March 2013 987-993*

Thermal Sensor Using Poly-Si Thin-Film Transistors With Self-Aligned and Offset Gate Structures. *Kimura, M.*, +, *JSEN May 2013 1771-1774*

Weak Adsorption-Induced Surface Stress for Streptavidin Binding to Biotin Tethered to Silicon Microcantilever Arrays. *Ness, S. J.*, +, *JSEN March 2013 959-968*

Silicon compounds

Ga₂O₃ Nanowire Photodetector Prepared on SiO₂/Si Template. *Wu, Y. L.*, +, *JSEN June 2013 2368-2373*

A Hollow Core Fiber-Based Intermodal Interferometer for Measurement of Strain and Temperature. *Qi, F.*, +, *JSEN Sept. 2013 3468-3471*

A Miniaturized pH Sensor With an Embedded Counter Electrode and a Readout Circuit. *Veeramani, M. S.*, +, *JSEN May 2013 1941-1948*

Charge Retention in a Patterned SiO₂/Si₃N₄ Electret. *Leonov, V.*, +, *JSEN Sept. 2013 3369-3376*

Detection of SiO₂ Thin Layer by Using a Metallic Mesh Sensor. *Suzuki, T.*, +, *JSEN Dec. 2013 4972-4976*

Effectiveness of Functionalized Nanosystems for Multimodal Molecular Sensing and Imaging in Medicine. *Casciaro, S.*, +, *JSEN June 2013 2305-2312*

Silicon-on-insulator

A Bulk-Micromachined Fully Differential MEMS Accelerometer With Split Interdigitated Fingers. *Aydin, O.*, +, *JSEN Aug. 2013 2914-2921*

Silicones

A Flexible Transparent Touch Panel Based on Ionic Liquid Channel. *Shikida, M.*, +, *JSEN Sept. 2013 3490-3495*

A Soft Strain Sensor Based on Ionic and Metal Liquids. *Chossat, J.-B.*, +, *JSEN Sept. 2013 3405-3414*

Droplet-Based Sensing: Optical Microresonator Sensors Embedded in Digital Electrowetting Microfluidics Systems. *Royal, M. W.*, +, *JSEN Dec. 2013 4733-4742*

Silver

A Miniaturized pH Sensor With an Embedded Counter Electrode and a Readout Circuit. *Veeramani, M. S.*, +, *JSEN May 2013 1941-1948*

A Wireless Passive Sensor for Temperature Compensated Remote pH Monitoring. *Bhadra, S.*, +, *JSEN June 2013 2428-2436*

All-Inkjet Printed Strain Sensors. *Ando, B.*, +, *JSEN Dec. 2013 4874-4879*

Highly Flexible Magneto-electronic Device Integrated With Embedded Ag Nanoparticle Electrode. *Oh, S.*, +, *JSEN Oct. 2013 3957-3961*

SPR-Based Optical Fiber Sensors Using Gold-Silver Alloy Particles as the Active Sensing Material. *Tu, H.*, +, *JSEN June 2013 2192-2199*

Silver alloys

Metal-Silver Based Electrodes as Sensitive Surfaces for Electrochemical Detection of Thio-Heterocycles. *Lai-Hao, W.*, +, *JSEN Sept. 2013 3442-3448*

Wideband Visible Wavelength Range MEMS Fabry-Perot Tunable Filter With Highly Accurate Calibration System. *Hirokubo, N.*, +, *JSEN Aug. 2013 2930-2936*

Skin

Detection and Monitoring of Microparticles Under Skin by Optical Coherence Tomography as an Approach to Continuous Glucose Sensing Using Implanted Retroreflectors. *Wang, S.*, +, *JSEN Nov. 2013 4534-4541*

Development of a Non-Contact Sensing Method for Scratching Activity Measurement. *Kurihara, Y.*, +, *JSEN Sept. 2013 3325-3330*

Emanation of Hydroxyl Radicals From Human Skin. *Che, D.-C.*, +, *JSEN April 2013 1223-1227*

Slabs

Tuning Characteristics of Guided Mode Resonances in 1- and 2-D Photonic Crystal Slab Biosensors. *Akhavan, H.*, +, *JSEN April 2013 1161-1166*

SLAM (robots)

Cooperative Robotic Structure Mapping Using Wireless Measurements—A Comparison of Random and Coordinated Sampling Patterns. *Gonzalez-Ruiz, A.*, +, *JSEN July 2013 2571-2580*

Sleep

Modern Methods for the Description of Complex Couplings in the Neurophysiology of Respiration. *Jablonski, I.*, +, *JSEN Sept. 2013 3182-3192*

Wireless Medical-Embedded Systems: A Review of Signal-Processing Techniques for Classification. *Ghasemzadeh, H.*, +, *JSEN Feb. 2013 423-437*

Sleep apnea

Corrections to "An electromechanical system based on carbon nanotube sensors to detect apnea" [Jul 13 2737-2741]. *Liu, H.-C.*, +, *JSEN Dec. 2013 4992*

Small electric machines

Monitoring of Actuation Conditions in a Micro-Turbo-Generator. *Beyaz, M. I.*, +, *JSEN Aug. 2013 2937-2943*

Smart phones

Development of Mobile Radiation Monitoring System Utilizing Smartphone and Its Field Tests in Fukushima. *Ishigaki, Y.*, +, *JSEN Oct. 2013 3520-3526*

Mobile Application for Impedance-Based Biomimetic Sensor Readout. *Broeders, J.*, +, *JSEN July 2013 2659-2665*

PassFit: Participatory Sensing and Filtering for Identifying Truthful Urban Pollution Sources. *Xiang, C.*, +, *JSEN Oct. 2013 3721-3732*

- QoI-Aware Energy-Efficient Participatory Crowdsourcing. *Liu, C. H.*, +, *JSEN Oct. 2013 3742-3753*
- Sensing as a Service: Challenges, Solutions and Future Directions. *Sheng, X.*, +, *JSEN Oct. 2013 3733-3741*
- SensTrack: Energy-Efficient Location Tracking With Smartphone Sensors. *Zhang, L.*, +, *JSEN Oct. 2013 3775-3784*
- Wireless Machine-to-Machine Healthcare Solution Using Android Mobile Devices in Global Networks. *Jung, S.-J.*, +, *JSEN May 2013 1419-1424*
- Wireless Surface Electromyography Probes With Four High-Speed Channels. *Imperatori, G.*, +, *JSEN Aug. 2013 2954-2961*
- Smart power grids**
- Quality-Driven Energy-Neutralized Power and Relay Selection for Smart Grid Wireless Multimedia Sensor Based IoTs. *Yao, R.*, +, *JSEN Oct. 2013 3637-3644*
- Sodium**
- High Polarization and Low-Repulsion HfO₂ Thin Film for Alkali Metal Ion Detections by Plasma System With a Complementary Filter. *Huang, C.-H.*, +, *JSEN June 2013 2459-2465*
- Ion Sensor for the Quantification of Sodium in Sweat Samples. *Wujcik, E. K.*, +, *JSEN Sept. 2013 3430-3436*
- Sodium compounds**
- A Low-Power Directional Gamma-Ray Sensor System for Long-Term Radiation Monitoring. *Schrage, C.*, +, *JSEN July 2013 2610-2618*
- Soil**
- Adaptive Neuro-Fuzzy Inference System-Based Remote Bulk Soil Moisture Estimation: Using CosmOz Cosmic Ray Sensor. *Dutta, R.*, +, *JSEN June 2013 2374-2381*
- Precise Moisture Monitoring for Various Soil Types Using Handheld Microwave-Sensor Meter. *You, K. Y.*, +, *JSEN July 2013 2563-2570*
- Sol-gel processing**
- WO₃ Hydrogen Resistive Gas Sensor and Its Wide-Range Current-Mode Electronic Read-Out Circuit. *De Marcellis, A.*, +, *JSEN July 2013 2792-2798*
- A Tip-Tilt-Piston Micromirror With Symmetrical Lateral-Shift-Free Piezoelectric Actuators. *Liao, W.*, +, *JSEN Aug. 2013 2873-2881*
- High Dynamic Range Methanol Sensor Based on Aligned ZnO Nanorods. *Banerjee, N.*, +, *JSEN May 2013 1669-1676*
- Sol-Gel Iridium Oxide-Based pH Sensor Array on Flexible Polyimide Substrate. *Nguyen, C. M.*, +, *JSEN Oct. 2013 3857-3864*
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- Distributed Feedback Laser Biosensor Noise Reduction. *Tan, Y.*, +, *JSEN May 2013 1972-1978*
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- Terpene Detection Based on Localized Surface Plasma Resonance of Thiolate-Modified Au Nanoparticles. *Chen, B.*, +, *JSEN April 2013 1307-1314*
- Solvation**
- Use of Tapered Optical Fiber Sensors in Study of the Hydration Process of Cement Paste. *Luo, D.*, +, *JSEN Sept. 2013 3415-3420*
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- Estimating Colloidal Concentration Using Acoustic Backscatter. *Fuller, C. B.*, +, *JSEN Nov. 2013 4546-4555*
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- Source separation**
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- New Semidefinite Relaxation Method for Acoustic Energy-Based Source Localization. *Wang, G.*, +, *JSEN May 2013 1514-1521*
- Particle Filtering for Acoustic Source Tracking in Impulsive Noise With Alpha-Stable Process. *Zhong, X.*, +, *JSEN Feb. 2013 589-600*
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- Flash Flatness Measurement System Using Digital Dial Gauges. *Li, Q.*, +, *JSEN June 2013 2051-2052*
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- Directions Toward Effective Utilization of Tactile Skin: A Review. *Dahiya, R. S.*, +, *JSEN Nov. 2013 4121-4138*
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- Guest Editorial Special Issue on Selected Papers From the IEEE Sensors 2011 Conference. *Mignani, A. G.*, +, *JSEN March 2013 889*
- Guest Editorial Special Issue on Sensors and Sensing Systems for Neurophysiology. *Lay-Ekuakille, A.*, +, *JSEN Sept. 2013 3165*
- Guest Editorial THz Sensing: Materials, Devices, and Systems. *Hindle, F.*, +, *JSEN Jan. 2013 7*
- Guest Editorial—Special Issue on Selected Papers From the 11th IEEE Sensors Conference 2012. *Fang, W.*, +, *JSEN Aug. 2013 2809*
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- Bispectral Analysis of Transient Evoked Otoacoustic Emissions to Study Factors Influencing Cochlear Non-Linearities: Normative Data in Young Adults. *Tognola, G.*, +, *JSEN Sept. 2013 3249-3254*
- Spectral Analysis of Vibratory Gyro Noise. *Kim, D.*, +, *JSEN Nov. 2013 4361-4374*
- Spectral methods of temperature measurement**
- Spatial Resolution Improvement of Distributed Raman Temperature Measurement System. *Wang, Z. L.*, +, *JSEN Nov. 2013 4271-4278*
- Spectrochemical analysis**
- Context-Adaptive Multimodal Wireless Sensor Network for Energy-Efficient Gas Monitoring. *Jelicic, V.*, +, *JSEN Jan. 2013 328-338*
- NADH-Fluorometric Biochemical Gas Sensor (Bio-Sniffer) for Evaluation of Indoor Air Quality. *Kudo, H.*, +, *JSEN Aug. 2013 2828-2833*
- Preparation and Characteristics of Rat Anti-1,3,5-Trinitroperhydro-1,3,5-Triazine (RDX) Monoclonal Antibody and Detection of RDX Using Surface Plasmon Resonance Immunosensor. *Tanaka, Y.*, +, *JSEN Nov. 2013 4452-4458*
- Quantum Cascade Laser-Based Sensing for Carbon Sequestration Leakage Monitoring. *Escarra, M. D.*, +, *JSEN June 2013 2348-2356*
- Simultaneous Single Detector Measurement of Multiple Fluorescent Sources. *Dixit, R.*, +, *JSEN May 2013 1965-1971*
- Spectrometers**
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- SPICE**
- An Integrated High-Precision Probe System in 0.18- μm CMOS for Near-Field Magnetic Measurements on Cryptographic LSIs. *Mai-Khanh, N. N.*, +, *JSEN July 2013 2675-2682*
- THz SPICE for Modeling Detectors and Nonquadratic Response at Large Input Signal. *Gutin, A.*, +, *JSEN Jan. 2013 55-62*
- Spin coating**
- Utilization of Chitosan-Based Sensor Thin Films for the Detection of Lead Ion by Surface Plasmon Resonance Optical Sensor. *Fen, Y. W.*, +, *JSEN May 2013 1413-1418*
- Spin valves**
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- Splicing**
- A Hollow Core Fiber-Based Intermodal Interferometer for Measurement of Strain and Temperature. *Qi, F.*, +, *JSEN Sept. 2013 3468-3471*
- A Hybrid Fiber Interferometer for Simultaneous Refractive Index and Temperature Measurements Based on Fabry-Perot/Michelson Interference. *Sun, H.*, +, *JSEN May 2013 2039-2044*
- Micro-Ball Lensed Fiber-Based Glucose Sensor. *Harun, S. W.*, +, *JSEN Jan. 2013 348-350*
- Sport**
- A Stereo Vision-Based Self-Localization System. *Chiang, J.-S.*, +, *JSEN May 2013 1677-1689*
- Sprays**
- Flexible Carbon Nanotube Based Gas Sensors Fabricated by Large-Scale Spray Deposition. *Abdellah, A.*, +, *JSEN Oct. 2013 4014-4021*

Improvement of Odor Blender Using Electroosmotic Pumps and SAW Atomizer for Low-Volatile Scents. *Ariyakul, Y.*, +, *JSEN Dec. 2013 4918-4923*

Nondestructive Evaluation of Diesel Spray Holes Using Piezoresistive Sensors. *Peiner, E.*, +, *JSEN Feb. 2013 701-708*

Springs (mechanical)

Design and Modeling of a Wide Dynamic-Range Hardness Sensor for Biological Tissue Assessment. *Zhao, S.*, +, *JSEN Dec. 2013 4613-4620*

Embedded Flexible Force Sensor for In-Situ Tire-Road Interaction Measurements. *Zhang, Y.*, +, *JSEN May 2013 1756-1765*

Novel Miniature Airflow Energy Harvester for Wireless Sensing Applications in Buildings. *Zhu, D.*, +, *JSEN Feb. 2013 691-700*

Sputter deposition

NH₃ Sensing by p-ZnO Thin Films. *Balakrishnan, L. N.*, +, *JSEN June 2013 2055-2060*

Characteristics of Flexible Thin-Film Transistors With ZnO Channels. *Ji, L.-W.*, +, *JSEN Dec. 2013 4940-4943*

Fabrication and Investigation of Arrayed Glucose Biosensor Based on Microfluidic Framework. *Chou, J.-C.*, +, *JSEN Nov. 2013 4180-4187*

Flexible Sputter-Deposited Carbon Strain Sensor. *Tata, U.*, +, *JSEN Feb. 2013 444-445*

Neural Electrode Array Based on Aluminum: Fabrication and Characterization. *Peixoto, A. C. M.*, +, *JSEN Sept. 2013 3319-3324*

Study on a Metal-Insulator-Silicon Hydrogen Sensor With LaTiON as Gate Insulator. *Yu, J.*, +, *JSEN May 2013 1534-1540*

Terpene Detection Based on Localized Surface Plasma Resonance of Thiolate-Modified Au Nanoparticles. *Chen, B.*, +, *JSEN April 2013 1307-1314*

Sputter etching

An Integrated High-Precision Probe System in 0.18- μm CMOS for Near-Field Magnetic Measurements on Cryptographic LSIs. *Mai-Khanh, N. N.*, +, *JSEN July 2013 2675-2682*

Flex-to-Rigid (F2R): A Generic Platform for the Fabrication and Assembly of Flexible Sensors for Minimally Invasive Instruments. *Mimoun, B.*, +, *JSEN Oct. 2013 3873-3882*

In Vivo Measurements With Robust Silicon-Based Multielectrode Arrays With Extreme Shaft Lengths. *Marton, G.*, +, *JSEN Sept. 2013 3263-3269*

Sputtered coatings

Study on a Metal-Insulator-Silicon Hydrogen Sensor With LaTiON as Gate Insulator. *Yu, J.*, +, *JSEN May 2013 1534-1540*

SQL

Online Monitoring of Geological CO₂ Storage and Leakage Based on Wireless Sensor Networks. *Yang, H.*, +, *JSEN Feb. 2013 556-562*

Stability

High-Performance Closed-Loop Interface Circuit for High-Q Capacitive Microaccelerometers. *Ye, Z.*, +, *JSEN May 2013 1425-1433*

Room Temperature Ionic Liquid/Multiwalled Carbon Nanotube/Chitosan-Modified Glassy Carbon Electrode as a Sensor for Simultaneous Determination of Ascorbic Acid, Uric Acid, Acetaminophen, and Mefenamic Acid. *Kianipour, S.*, +, *JSEN July 2013 2690-2698*

Sensor for Thermal Gas Analysis Based on Micromachined Silicon-Microwires. *Kliche, K.*, +, *JSEN July 2013 2626-2635*

Stainless steel

Behavior of Low Frequency Signal Through Stainless Steel Enclosures in Noncontact Safety Switch Application. *Farrak, M.*, +, *JSEN Jan. 2013 299-305*

Wireless Temperature Sensor for Condition Monitoring of Bearings Operating Through Thick Metal Plates. *Gupta, L. A.*, +, *JSEN June 2013 2292-2298*

Star trackers

An Adaptive Integration Time CMOS Image Sensor With Multiple Readout Channels. *Qian, X.*, +, *JSEN Dec. 2013 4931-4939*

Autonomous Detection of Angle Random Walk and Quantization Noise of Fiber Optic Gyro in Attitude Determination System of Satellite. *Yuan, R.*, +, *JSEN Jan. 2013 211-216*

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Sensor Fusion and Target Tracking Using Evidential Data Association. *Dallil, A.*, +, *JSEN Jan. 2013 285-293*

Square Root Cubature Information Filter. *Chandra, K. P. B.*, +, *JSEN Feb. 2013 750-758*

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A Stereo Vision-Based Self-Localization System. *Chiang, J.-S.*, +, *JSEN May 2013 1677-1689*

Architecture of Noninvasive Real Time Visual Monitoring System for Dial Type Measuring Instrument. *Jaffery, Z. A.*, +, *JSEN April 2013 1236-1244*

Dynamic Calibration of Electrochemical Sensor for Accelerated Analyte Quantification. *Yang, F.*, +, *JSEN April 2013 1192-1199*

Entropic Measures of EEG Complexity in Alzheimer's Disease Through a Multivariate Multiscale Approach. *Labate, D.*, +, *JSEN Sept. 2013 3284-3292*

Fuzzy Logic Based Multidimensional Link Quality Estimation for Multi-Hop Wireless Sensor Networks. *Guo, Z.-Q.*, +, *JSEN Oct. 2013 3605-3615*

Log-Logistic Modeling of Sensory Flow Delays in Networked Telerobots. *Gago-Benitez, A.*, +, *JSEN Aug. 2013 2944-2953*

Modeling and Estimating Simulated DNA Nanopore Translocation Signals. *Qiu, W.*, +, *JSEN April 2013 1216-1222*

Recovered Paperboard Samples Identification by Means of Mid-Infrared Sensors. *Riba, J.-R.*, +, *JSEN July 2013 2763-2770*

Statistical distributions

Cooperative Robotic Structure Mapping Using Wireless Measurements—A Comparison of Random and Coordinated Sampling Patterns. *Gonzalez-Ruiz, A.*, +, *JSEN July 2013 2571-2580*

Data Persistency in Wireless Sensor Networks Using Distributed Luby Transform Codes. *Jafarizadeh, S.*, +, *JSEN Dec. 2013 4880-4890*

Power Constrained Partially Coherent Distributed Detection Over Fading Multiaccess Channels. *Xu, Z.*, +, *JSEN July 2013 2729-2736*

UKF for Integrated Vision and Inertial Sensors Based on Three-View Geometry. *Fang, Q.*, +, *JSEN July 2013 2711-2719*

Stators

Monitoring of Actuation Conditions in a Micro-Turbo-Generator. *Beyaz, M. I.*, +, *JSEN Aug. 2013 2937-2943*

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Dynamics-Based Stereo Visual Inspection Using Multidimensional Modal Analysis. *Yang, H.*, +, *JSEN Dec. 2013 4831-4843*

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Selective Weighing of Individual Microparticles Using a Hybrid Micromanipulator-Nanomechanical Resonator System. *Chan, B.-D.*, +, *JSEN Aug. 2013 2857-2862*

Stereo image processing

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Dynamics-Based Stereo Visual Inspection Using Multidimensional Modal Analysis. *Yang, H.*, +, *JSEN Dec. 2013 4831-4843*

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Stochastic processes

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Log-Logistic Modeling of Sensory Flow Delays in Networked Telerobots. *Gago-Benitez, A.*, +, *JSEN Aug. 2013 2944-2953*

Percolation Theory-Based Exposure-Path Prevention for Wireless Sensor Networks Coverage in Internet of Things. *Liu, L.*, +, *JSEN Oct. 2013 3625-3636*

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Operation-State Monitoring and Energization-Status Identification for Underground Power Cables by Magnetic Field Sensing. *Sun, X.*, +, *JSEN Nov. 2013 4527-4533*

Storage management

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Strain gauges

Aerosol-Printed Strain Sensor Using PEDOT:PSS. *Thompson, B.*, +, *JSEN Nov. 2013 4256-4263*

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Flexible Sputter-Deposited Carbon Strain Sensor. *Tata, U.*, +, *JSEN Feb. 2013 444-445*

Polypropylene-Carbon Nanofiber Composites as Strain-Gauge Sensor. *Rocha, J. G.*, +, *JSEN July 2013 2603-2609*

Strain Transfer Analysis of Surface-Bonded MEMS Strain Sensors. *Moradi, M.*, +, *JSEN Feb. 2013 637-643*

Validation of Strain Gauges for Structural Health Monitoring With Bayesian Belief Networks. *Liu, Z.*, +, *JSEN Jan. 2013 400-407*

Strain measurement

- A Hollow Core Fiber-Based Intermodal Interferometer for Measurement of Strain and Temperature. *Qi, F.*, +, *JSEN Sept. 2013 3468-3471*
- Acceleration of Measurements in BOTDA Sensors Using Adaptive Linear Prediction. *Farahani, M. A.*, +, *JSEN Jan. 2013 263-272*
- Aerosol-Printed Strain Sensor Using PEDOT:PSS. *Thompson, B.*, +, *JSEN Nov. 2013 4256-4263*
- Commissioning and Evaluation of a Fiber-Optic Sensor System for Bridge Monitoring. *Scott, R. H.*, +, *JSEN July 2013 2555-2562*
- Compact Fiber Sensor With High Spatial Resolution for Simultaneous Strain and Temperature Measurement. *Cao, Z.*, +, *JSEN May 2013 1447-1451*
- Flexible Wireless Antenna Sensor: A Review. *Huang, H.*, +, *JSEN Oct. 2013 3865-3872*
- High-Performance Interface Electronic System for a 13×13 Flexible Biomechanical Ground Reaction Sensor Array Achieving a Gait Ground Velocity Resolution of $100 \mu\text{m}/\text{sec}$. *Guo, Q.*, +, *JSEN Nov. 2013 4496-4505*
- Polypropylene-Carbon Nanofiber Composites as Strain-Gauge Sensor. *Rocha, J. G.*, +, *JSEN July 2013 2603-2609*
- Validation of Strain Gauges for Structural Health Monitoring With Bayesian Belief Networks. *Liu, Z.*, +, *JSEN Jan. 2013 400-407*

Strain sensors

- A Hollow Core Fiber-Based Intermodal Interferometer for Measurement of Strain and Temperature. *Qi, F.*, +, *JSEN Sept. 2013 3468-3471*
- A Soft Strain Sensor Based on Ionic and Metal Liquids. *Chossat, J.-B.*, +, *JSEN Sept. 2013 3405-3414*
- Aerosol-Printed Strain Sensor Using PEDOT:PSS. *Thompson, B.*, +, *JSEN Nov. 2013 4256-4263*
- All-Inkjet Printed Strain Sensors. *Ando, B.*, +, *JSEN Dec. 2013 4874-4879*
- An Embroidered Two-Dimensional Chipless Strain Sensor for Wireless Structural Deformation Monitoring. *Vena, A.*, +, *JSEN Dec. 2013 4627-4637*
- Application of a Fiber Bragg Grating-Based Sensing System on Investigating Dynamic Behaviors of a Cantilever Beam Under Impact or Moving Mass Loadings. *Chuang, K.-C.*, +, *JSEN Jan. 2013 389-399*
- Commissioning and Evaluation of a Fiber-Optic Sensor System for Bridge Monitoring. *Scott, R. H.*, +, *JSEN July 2013 2555-2562*
- Fiber Bragg Grating Strain Sensor Incorporated to Monitor Patient Vital Signs During MRI. *Dziuda, L.*, +, *JSEN Dec. 2013 4986-4991*
- Fiber Optic Strain Monitoring for Long-Term Evaluation of a Concrete Foot-bridge Under Extended Test Conditions. *Surre, F.*, +, *JSEN March 2013 1036-1043*
- Flexible Sputter-Deposited Carbon Strain Sensor. *Tata, U.*, +, *JSEN Feb. 2013 444-445*
- Flexible Wireless Antenna Sensor: A Review. *Huang, H.*, +, *JSEN Oct. 2013 3865-3872*
- Integration of Thin Film Strain Sensors Into Hard Drives for Active Feedback Vibration Suppression. *Felix, S.*, +, *JSEN May 2013 1708-1715*
- Modeling and Characterization of Extensible Wearable Textile-Based Electrogoniometers. *Lorussi, F.*, +, *JSEN Jan. 2013 217-228*
- Polypropylene-Carbon Nanofiber Composites as Strain-Gauge Sensor. *Rocha, J. G.*, +, *JSEN July 2013 2603-2609*
- Strain Transfer Analysis of Surface-Bonded MEMS Strain Sensors. *Moradi, M.*, +, *JSEN Feb. 2013 637-643*
- Volume Strain Sensor Based on Spectra Analysis of In-Fiber Modal Interferometer. *Xu, Z.*, +, *JSEN June 2013 2139-2145*

Stress

- Package Stress Monitor to Compensate for the Piezo-Hall Effect in CMOS Hall Sensors. *Huber, S.*, +, *JSEN Aug. 2013 2890-2898*

Stress analysis

- A Flexible and Robust Large Scale Capacitive Tactile System for Robots. *Maiolino, P.*, +, *JSEN Oct. 2013 3910-3917*
- Investigations on an Ultra-Thin Bendable Monolithic Si CMOS Image Sensor. *Dogiamis, G. C.*, +, *JSEN Oct. 2013 3892-3900*

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- CMOS Sensor Arrays for High Resolution Die Stress Mapping in Packaged Integrated Circuits. *Chen, Y.*, +, *JSEN June 2013 2066-2076*
- Soft Fiber Optic Sensors for Precision Measurement of Shear Stress and Pressure. *Zhang, Z. F.*, +, *JSEN May 2013 1478-1482*
- Stress Averaging in PVDF Sensors For In-Plane Sinusoidal and Impact-Induced Stresses. *Kotian, K.*, +, *JSEN Nov. 2013 4444-4451*

Structural engineering

- Commissioning and Evaluation of a Fiber-Optic Sensor System for Bridge Monitoring. *Scott, R. H.*, +, *JSEN July 2013 2555-2562*

- Detecting Mechanoluminescence From ZnS:Mn Powder Using a High Speed Camera. *Kobakhidze, L.*, +, *JSEN Aug. 2013 3053-3059*
- Fiber Optic Strain Monitoring for Long-Term Evaluation of a Concrete Foot-bridge Under Extended Test Conditions. *Surre, F.*, +, *JSEN March 2013 1036-1043*

Structural engineering computing

- Dynamics-Based Stereo Visual Inspection Using Multidimensional Modal Analysis. *Yang, H.*, +, *JSEN Dec. 2013 4831-4843*
- Historical-Log Recording System for Crack Opening and Growth Based on Mechanoluminescent Flexible Sensor. *Terasaki, N.*, +, *JSEN Oct. 2013 3999-4004*
- Low-Power Circuits and Energy Harvesting for Structural Health Monitoring of Bridges. *Wardlaw, J. L.*, +, *JSEN Feb. 2013 709-722*
- Validation of Strain Gauges for Structural Health Monitoring With Bayesian Belief Networks. *Liu, Z.*, +, *JSEN Jan. 2013 400-407*

Submillimeter wave antennas

- Interferometric Technique for Measuring Terahertz Antenna Phase Patterns. *Bowen, J. W.*, +, *JSEN Jan. 2013 100-110*
- THz Hot-Electron Micro-Bolometer Based on Low-Mobility 2-DEG in GaN Heterostructure. *Choi, J. K.*, +, *JSEN Jan. 2013 80-88*

Submillimeter wave detectors

- "On-the-Fly" Monitoring With a Single-Shot Terahertz Time-Domain Spectrometer. *Jeunesse, P.*, +, *JSEN Jan. 2013 44-49*
- THz SPICE for Modeling Detectors and Nonquadratic Response at Large Input Signal. *Gutin, A.*, +, *JSEN Jan. 2013 55-62*

Submillimeter wave devices

- Guest Editorial THz Sensing: Materials, Devices, and Systems. *Hindle, F.*, +, *JSEN Jan. 2013 7*

Submillimeter wave integrated circuits

- Terahertz Detection With Nanoscale Semiconductor Rectifiers. *Chen, R.*, +, *JSEN Jan. 2013 24-30*

Submillimeter wave measurement

- Modern Resonator Spectroscopy at Submillimeter Wavelengths. *Parshin, V. V.*, +, *JSEN Jan. 2013 18-23*
- Phase-Sensitive Terahertz Self-Heterodyne System Based on Photodiode and Low-Temperature-Grown GaAs Photoconductor at $1.55 \mu\text{m}$. *Hisatake, S.*, +, *JSEN Jan. 2013 31-36*

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- Phase-Sensitive Terahertz Self-Heterodyne System Based on Photodiode and Low-Temperature-Grown GaAs Photoconductor at $1.55 \mu\text{m}$. *Hisatake, S.*, +, *JSEN Jan. 2013 31-36*

Submillimeter wave technology

- Guest Editorial THz Sensing: Materials, Devices, and Systems. *Hindle, F.*, +, *JSEN Jan. 2013 7*

Subscriber loops

- IPv6 Addressing Strategies for IoT. *Savolainen, T.*, +, *JSEN Oct. 2013 3511-3519*

Substations

- Harvesting Energy From Magnetic Fields to Power Condition Monitoring Sensors. *Roscoe, N. M.*, +, *JSEN June 2013 2263-2270*

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- Detection and Monitoring of Microparticles Under Skin by Optical Coherence Tomography as an Approach to Continuous Glucose Sensing Using Implanted Retroreflectors. *Wang, S.*, +, *JSEN Nov. 2013 4534-4541*
- Fabrication and Investigation of Arrayed Glucose Biosensor Based on Microfluidic Framework. *Chou, J.-C.*, +, *JSEN Nov. 2013 4180-4187*

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- A Miniaturized pH Sensor With an Embedded Counter Electrode and a Readout Circuit. *Veeramani, M. S.*, +, *JSEN May 2013 1941-1948*

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- Classification of Animals and People Ultrasonic Signatures. *Damarla, T.*, +, *JSEN MAY 2013 1464-1472*
- Surface EMG Based Hand Manipulation Identification Via Nonlinear Feature Extraction and Classification. *Ju, Z.*, +, *JSEN Sept. 2013 3302-3311*
- Two-Dimensional Direction Recognition Using Uniaxial Tactile Arrays. *Wu, H.*, +, *JSEN Dec. 2013 4897-4903*

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- Commissioning and Evaluation of a Fiber-Optic Sensor System for Bridge Monitoring. *Scott, R. H.*, +, *JSEN July 2013 2555-2562*

Surface acoustic wave sensors

- A Novel Closed-Loop Readout Topology for Monolithically Integrated Surface Acoustic Wave Sensors. *Rakshit, S.*, +, *JSEN Nov. 2013 4264-4270*
- AlN/Sapphire: Promising Structure for High Temperature and High Frequency SAW Devices. *Blampain, E.*, +, *JSEN Dec. 2013 4607-4612*

- Design and Application of Surface Wave Sensors for Nonintrusive Power Line Fault Detection. *Alam, M. N.*, +, *JSEN Jan. 2013 339-347*
- Effects of the Set Phase Position on the Response of a SAW Resonator Oscillator Based Chemical Sensor. *Kshetrimayum, R.*, +, *JSEN May 2013 1662-1668*
- GaN-Based S_0 -Wave Sensors on Silicon for Chemical and Biological Sensing in Liquid Environments. *Lu, X.*, +, *JSEN April 2013 1245-1251*
- Improvement of Odor Blender Using Electroosmotic Pumps and SAW Atomizer for Low-Volatile Scents. *Ariyakul, Y.*, +, *JSEN Dec. 2013 4918-4923*
- Wireless Surface Acoustic Wave Pressure and Temperature Sensor With Unique Identification Based on LiNbO_3 . *Binder, A.*, +, *JSEN May 2013 1801-1805*
- Surface acoustic wave transducers**
- Packageless AlN/ZnO/Si Structure for SAW Devices Applications. *Legrani, O.*, +, *JSEN Feb. 2013 487-491*
- Surface chemistry**
- Distributed Feedback Laser Biosensor Noise Reduction. *Tan, Y.*, +, *JSEN May 2013 1972-1978*
- Surface cracks**
- RFID Tag Antenna-Based Sensing for Pervasive Surface Crack Detection. *Kalansuriya, P.*, +, *JSEN May 2013 1564-1570*
- Surface morphology**
- Influence of Substrate Temperature on H_2S Gas Sensing Properties of Nanocrystalline Zinc Oxide Thin Films Prepared by Advanced Spray Pyrolysis. *Shewale, P. S.*, +, *JSEN May 2013 1992-1998*
- Metal-Silver Based Electrodes for Electrochemical Detection of Thio-Heterocycles. *Lai-Hao, W.*, +, *JSEN Sept. 2013 3442-3448*
- Terpene Detection Based on Localized Surface Plasma Resonance of Thiolate-Modified Au Nanoparticles. *Chen, B.*, +, *JSEN April 2013 1307-1314*
- Surface mount technology**
- Flexible and Surface-Mountable Piezoelectric Sensor Arrays for Underwater Sensing in Marine Vehicles. *Asadnia, M.*, +, *JSEN Oct. 2013 3918-3925*
- Surface plasmon resonance**
- Constructing a Novel Asymmetric Dielectric Structure Toward the Realization of High-Performance Surface Plasmon Resonance Biosensors. *Chiu, N.-F.*, +, *JSEN Sept. 2013 3483-3489*
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- Layer-by-Layer Structured AuNP Sensors for Terpene Vapor Detection. *Chen, B.*, +, *JSEN Nov. 2013 4212-4219*
- Multiple Surface-Based Biosensors for Enhanced Molecular Detection in Fluid Flow Systems. *Abolfath-Beygi, M.*, +, *JSEN April 2013 1265-1273*
- Preparation and Characteristics of Rat Anti-1,3,5-Trinitroperhydro-1,3,5-Triazine (RDX) Monoclonal Antibody and Detection of RDX Using Surface Plasmon Resonance Immunosensor. *Tanaka, Y.*, +, *JSEN Nov. 2013 4452-4458*
- Terpene Detection Based on Localized Surface Plasma Resonance of Thiolate-Modified Au Nanoparticles. *Chen, B.*, +, *JSEN April 2013 1307-1314*
- Utilization of Chitosan-Based Sensor Thin Films for the Detection of Lead Ion by Surface Plasmon Resonance Optical Sensor. *Fen, Y. W.*, +, *JSEN May 2013 1413-1418*
- Surface roughness**
- Nondestructive Evaluation of Diesel Spray Holes Using Piezoresistive Sensors. *Peiner, E.*, +, *JSEN Feb. 2013 701-708*
- Surface topography**
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- Surface topography measurement**
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- Fiber Optic Displacement Sensor Using Multimode Plastic Fiber Probe and Tooth Surface. *Rahman, H. A.*, +, *JSEN Jan. 2013 294-298*
- Nondestructive Evaluation of Diesel Spray Holes Using Piezoresistive Sensors. *Peiner, E.*, +, *JSEN Feb. 2013 701-708*
- Surfactants**
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- A Novel Glove Monitoring System Used to Quantify Neurological Symptoms During Deep-Brain Stimulation Surgery. *Dai, H.*, +, *JSEN Sept. 2013 3193-3202*
- Analysis of an MRI Compatible Force Sensor for Sensitivity and Precision. *Turkseven, M.*, +, *JSEN Feb. 2013 476-486*
- Design and Modeling of a Wide Dynamic-Range Hardness Sensor for Biological Tissue Assessment. *Zhao, S.*, +, *JSEN Dec. 2013 4613-4620*
- Force Sensor Design and Measurement for Endodontic Therapy. *Isao, C.-C.*, +, *JSEN July 2013 2636-2642*
- MEMS-Based Intraoperative Monitoring System for Improved Safety in Lumbar Surgery. *Liu, X.*, +, *JSEN May 2013 1541-1548*
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- Maximizing the Lifetime of k -Discrete Barrier Coverage Using Mobile Sensors. *Du, J.*, +, *JSEN Dec. 2013 4690-4701*
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- A Miniaturized pH Sensor With an Embedded Counter Electrode and a Readout Circuit. *Veeramani, M. S.*, +, *JSEN May 2013 1941-1948*
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T

Tactile sensors

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- A Flexible Transparent Touch Panel Based on Ionic Liquid Channel. *Shikida, M.*, +, *JSEN Sept. 2013 3490-3495*
- Artificial Sense of Slip—A Review. *Francomano, M. T.*, +, *JSEN July 2013 2489-2498*
- Design and Modeling of a Wide Dynamic-Range Hardness Sensor for Biological Tissue Assessment. *Zhao, S.*, +, *JSEN Dec. 2013 4613-4620*
- Development of a Flexible 3-D Tactile Sensor System for Anthropomorphic Artificial Hand. *Zhang, T.*, +, *JSEN Feb. 2013 510-518*
- Directions Toward Effective Utilization of Tactile Skin: A Review. *Dahiya, R. S.*, +, *JSEN Nov. 2013 4121-4138*
- Effects of Wavelength and Optical Path Length in Design of Fingernail Touch Force Sensing. *Abu-Khalaf, J. M.*, +, *JSEN Feb. 2013 807-815*
- Flexible Fabric Sensor Toward a Humanoid Robot's Skin: Fabrication, Characterization, and Perceptions. *Ho, V. A.*, +, *JSEN Oct. 2013 4065-4080*
- Friction in Totally Optical Robotic Finger Oriented on Shear Force Measurement. *Massaro, A.*, +, *JSEN Feb. 2013 548-555*
- High-Resolution Touch Floor System Using Particle Swarm Optimization Neural Network. *Kim, H.*, +, *JSEN June 2013 2084-2093*
- Piezoelectric Polymer Transducer Arrays for Flexible Tactile Sensors. *Seminara, L.*, +, *JSEN Oct. 2013 4022-4029*
- Piezoelectric Vibratory-Cantilever Force Sensors and Axial Sensitivity Analysis for Individual Triaxial Tactile Sensing. *Yamashita, K.*, +, *JSEN March 2013 1074-1080*
- Two-Dimensional Direction Recognition Using Uniaxial Tactile Arrays. *Wu, H.*, +, *JSEN Dec. 2013 4897-4903*
- Tanks (containers)**
- Fiber Optic Bending Sensor for Water Level Monitoring: Development and Field Test: A Review. *Rosolem, J. B.*, +, *JSEN Nov. 2013 4113-4120*
- Tantalum compounds**
- Liquid Phase Deposition Based SnO_2 Gas Sensor Integrated With TaN Heater on a Micro-Hotplate. *Chiou, J.-C.*, +, *JSEN June 2013 2466-2473*
- Target tracking**
- High-Resolution Touch Floor System Using Particle Swarm Optimization Neural Network. *Kim, H.*, +, *JSEN June 2013 2084-2093*
- On the Use of Modified Cramér-Rao Bound in Sensor Deployment. *Pino-Povedano, S.*, +, *JSEN Nov. 2013 4163-4171*

- Sensor Fusion and Target Tracking Using Evidential Data Association. *Dallil, A.*, +, *JSEN Jan. 2013 285-293*
- Telecommunication computing**
A Cyber Physical Test-Bed for Virtualization of RF Access Environment for Body Sensor Network. *He, J.*, +, *JSEN Oct. 2013 3826-3836*
- Telecommunication network management**
Load-Balanced Clustering Algorithm With Distributed Self-Organization for Wireless Sensor Networks. *Liao, Y.*, +, *JSEN May 2013 1498-1506*
- Telecommunication network planning**
Path Planning Algorithm for Mobile Anchor-Based Localization in Wireless Sensor Networks. *Ou, C.-H.*, +, *JSEN Feb. 2013 466-475*
- Telecommunication network reliability**
Coverage-Enhancing Algorithm Based on Overlap-Sense Ratio in Wireless Multimedia Sensor Networks. *Chen, J.*, +, *JSEN June 2013 2077-2083*
Distributed Fuzzy Logic-Based Relay Selection Algorithm for Cooperative Wireless Sensor Networks. *Brante, G.*, +, *JSEN Nov. 2013 4375-4386*
Fault Node Recovery Algorithm for a Wireless Sensor Network. *Shih, H.-C.*, +, *JSEN July 2013 2683-2689*
Fuzzy Logic Based Multidimensional Link Quality Estimation for Multi-Hop Wireless Sensor Networks. *Guo, Z.-Q.*, +, *JSEN Oct. 2013 3605-3615*
LCM: A Link-Aware Clustering Mechanism for Energy-Efficient Routing in Wireless Sensor Networks. *Wang, S. S.*, +, *JSEN Feb. 2013 728-736*
Load-Balanced Clustering Algorithm With Distributed Self-Organization for Wireless Sensor Networks. *Liao, Y.*, +, *JSEN May 2013 1498-1506*
Maximizing the Lifetime of k -Discrete Barrier Coverage Using Mobile Sensors. *Du, J.*, +, *JSEN Dec. 2013 4690-4701*
On Network Lifetime Expectancy With Realistic Sensing and Traffic Generation Model in Wireless Sensor Networks. *Chakraborty, A.*, +, *JSEN July 2013 2771-2779*
Optimizing Complex Cluster Formation in MANETs Using SAT/ILP Techniques. *Zahidi, S. Z. H.*, +, *JSEN June 2013 2400-2412*
Tradeoff Between Throughput and Energy Consumption in Multirate Wireless Sensor Networks. *Xie, D.*, +, *JSEN Oct. 2013 3667-3676*
- Telecommunication network routing**
A Fully Distributed Geo-Routing Scheme for Wireless Sensor Networks. *Bader, A.*, +, *JSEN Dec. 2013 4585-4586*
A Link-State Based Adaptive Feedback Routing for Underwater Acoustic Sensor Networks. *Zhang, S.*, +, *JSEN Nov. 2013 4402-4412*
Fault Node Recovery Algorithm for a Wireless Sensor Network. *Shih, H.-C.*, +, *JSEN July 2013 2683-2689*
LCM: A Link-Aware Clustering Mechanism for Energy-Efficient Routing in Wireless Sensor Networks. *Wang, S. S.*, +, *JSEN Feb. 2013 728-736*
- Telecommunication network topology**
Fuzzy Logic Based Multidimensional Link Quality Estimation for Multi-Hop Wireless Sensor Networks. *Guo, Z.-Q.*, +, *JSEN Oct. 2013 3605-3615*
Load-Balanced Clustering Algorithm With Distributed Self-Organization for Wireless Sensor Networks. *Liao, Y.*, +, *JSEN May 2013 1498-1506*
Modeling Latency and Reliability of Hybrid Technology Networking. *Shrestha, P. L.*, +, *JSEN Oct. 2013 3616-3624*
On Network Lifetime Expectancy With Realistic Sensing and Traffic Generation Model in Wireless Sensor Networks. *Chakraborty, A.*, +, *JSEN July 2013 2771-2779*
Optimizing Complex Cluster Formation in MANETs Using SAT/ILP Techniques. *Zahidi, S. Z. H.*, +, *JSEN June 2013 2400-2412*
The Impact of Rank Attack on Network Topology of Routing Protocol for Low-Power and Lossy Networks. *Le, A.*, +, *JSEN Oct. 2013 3685-3692*
- Telecommunication power management**
Wireless Energy and Data Transfer for In-Vivo Epileptic Focus Localization. *Yilmaz, G.*, +, *JSEN Nov. 2013 4172-4179*
- Telecommunication power supplies**
Quality-Driven Energy-Neutralized Power and Relay Selection for Smart Grid Wireless Multimedia Sensor Based IoTs. *Yao, R.*, +, *JSEN Oct. 2013 3637-3644*
- Telecommunication security**
A Lightweight Multicast Authentication Mechanism for Small Scale IoT Applications. *Yao, X.*, +, *JSEN Oct. 2013 3693-3701*
Edge Mining the Internet of Things. *Gaura, E. I.*, +, *JSEN Oct. 2013 3816-3825*
Practical Secure Communication for Integrating Wireless Sensor Networks Into the Internet of Things. *Li, F.*, +, *JSEN Oct. 2013 3677-3684*
- Telecommunication traffic**
On Network Lifetime Expectancy With Realistic Sensing and Traffic Generation Model in Wireless Sensor Networks. *Chakraborty, A.*, +, *JSEN July 2013 2771-2779*
- Telemedicine**
Wireless Machine-to-Machine Healthcare Solution Using Android Mobile Devices in Global Networks. *Jung, S.-J.*, +, *JSEN May 2013 1419-1424*
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- Temperature control**
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A Hybrid Fiber Interferometer for Simultaneous Refractive Index and Temperature Measurements Based on Fabry-Perot/Michelson Interference. *Sun, H.*, +, *JSEN May 2013 2039-2044*
A Wireless Passive Sensor for Temperature Compensated Remote pH Monitoring. *Bhadra, S.*, +, *JSEN June 2013 2428-2436*
Acceleration of Measurements in BOTDA Sensors Using Adaptive Linear Prediction. *Farahani, M. A.*, +, *JSEN Jan. 2013 263-272*
An Active Temperature Compensated Fiber-Optic Fabry-Perot Accelerometer System for Simultaneous Measurement of Vibration and Temperature. *Jia, P.-G.*, +, *JSEN June 2013 2334-2340*
Analysis and Back-Analysis for Temperature Field of Concrete Arch Dam During Construction Period Based on Temperature Data Measured by DTS. *Su, H.*, +, *JSEN May 2013 1403-1412*
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Fiber Optic Hybrid Device for Simultaneous Measurement of Humidity and Temperature. *Mathew, J.*, +, *JSEN May 2013 1632-1636*
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- Temperature sensors**
A Hollow Core Fiber-Based Intermodal Interferometer for Measurement of Strain and Temperature. *Qi, F.*, +, *JSEN Sept. 2013 3468-3471*
A Hybrid Fiber Interferometer for Simultaneous Refractive Index and Temperature Measurements Based on Fabry-Perot/Michelson Interference. *Sun, H.*, +, *JSEN May 2013 2039-2044*
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Dynamic Calibration of Electrochemical Sensor for Accelerated Analyte Quantification. *Yang, F.*, +, *JSEN April 2013 1192-1199*

Effects of Polymer Coatings on Temperature Sensitivity of Brillouin Frequency Shift Within Double-Coated Fibers. *Gu, H.*, +, *JSEN Feb. 2013 864-869*

Flex-to-Rigid (F2R): A Generic Platform for the Fabrication and Assembly of Flexible Sensors for Minimally Invasive Instruments. *Mimoun, B.*, +, *JSEN Oct. 2013 3873-3882*

Impedance-Based Temperature Sensing With Piezoceramic Devices. *Ilg, J.*, +, *JSEN June 2013 2442-2449*

Induction Brazing of Type-I Fiber Bragg Gratings Into Kovar Ferrules Exploiting Curie Transition. *Perry, M.*, +, *JSEN Feb. 2013 816-823*

Inline Microfiber Mach-Zehnder Interferometer for High Temperature Sensing. *Jasim, A. A.*, +, *JSEN Feb. 2013 626-628*

Linearization of NTC Thermistor Characteristic Using Op-Amp Based Inverting Amplifier. *Sarkar, A. R.*, +, *JSEN Dec. 2013 4621-4626*

Low-Power CMOS Smart Temperature Sensor With a Batch-Calibrated Inaccuracy of $\pm 0.25^\circ\text{C} (\pm 3\sigma)$ From -70°C to 130°C . *Aita, A. L.*, +, *JSEN May 2013 1840-1848*

MEMS-Integrated Load Cell for Measuring Pressure, Erosion, and Deposition in Dynamic Environmental Flows. *Hobby, M. J.*, +, *JSEN Feb. 2013 492-500*

Miniature Fabry-Perot Fiber Optic Sensor for Intravascular Blood Temperature Measurements. *Zou, X.*, +, *JSEN June 2013 2155-2160*

Novel Type of Temperature Self-Compensating Acceleration Transducer Based on OFBG. *Wang, C.*, +, *JSEN Aug. 2013 3012-3013*

On-Chip MOSFET Temperature Sensor for Electrical Characterization of RF Circuits. *Reverter, F.*, +, *JSEN Sept. 2013 3343-3344*

Ratio-Based Temperature-Sensing Technique Hardened Against Nanometer Process Variations. *Ituero, P.*, +, *JSEN Feb. 2013 442-443*

Relaxation Oscillator-Based Active Bridge Circuit for Linearly Converting Resistance to Frequency of Resistive Sensor. *Islam, T.*, +, *JSEN May 2013 1507-1513*

Sensor for Thermal Gas Analysis Based on Micromachined Silicon-Microwires. *Kliche, K.*, +, *JSEN July 2013 2626-2635*

Simultaneous Measurement of Refractive Index and Temperature Using a Michelson Fiber Interferometer With a Hi-Bi Fiber Probe. *Zhang, J.*, +, *JSEN June 2013 2061-2065*

Thermal Regeneration in Etched-Core Fiber Bragg Grating. *Yang, H.*, +, *JSEN July 2013 2581-2585*

Thermal Sensor Using Poly-Si Thin-Film Transistors With Self-Aligned and Offset Gate Structures. *Kimura, M.*, +, *JSEN May 2013 1771-1774*

Three-Dimensional Flexible Thermal Sensor for Intravascular Flow Monitoring. *Tang, R.*, +, *JSEN Oct. 2013 3991-3998*

Use of Tapered Optical Fiber Sensors in Study of the Hydration Process of Cement Paste. *Luo, D.*, +, *JSEN Sept. 2013 3415-3420*

Wireless Surface Acoustic Wave Pressure and Temperature Sensor With Unique Identification Based on LiNbO_3 . *Binder, A.*, +, *JSEN May 2013 1801-1805*

Wireless Temperature Sensor for Condition Monitoring of Bearings Operating Through Thick Metal Plates. *Gupta, L. A.*, +, *JSEN June 2013 2292-2298*

Woven Temperature and Humidity Sensors on Flexible Plastic Substrates for E-Textile Applications. *Mattana, G.*, +, *JSEN Oct. 2013 3901-3909*

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Metrology Issues and Solutions in THz Time-Domain Spectroscopy: Noise, Errors, Calibration. *Naftaly, M.*, +, *JSEN Jan. 2013 8-17*

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InP- and GaAs-Based Plasmonic High-Electron-Mobility Transistors for Room-Temperature Ultrahigh-Sensitive Terahertz Sensing and Imaging. *Watanabe, T.*, +, *JSEN Jan. 2013 89-99*

Phase-Sensitive Terahertz Self-Heterodyne System Based on Photodiode and Low-Temperature-Grown GaAs Photoconductor at $1.55\ \mu\text{m}$. *Hisatake, S.*, +, *JSEN Jan. 2013 31-36*

Self-Mixing Interferometry With Terahertz Quantum Cascade Lasers. *Valavanis, A.*, +, *JSEN Jan. 2013 37-43*

THz Hot-Electron Micro-Bolometer Based on Low-Mobility 2-DEG in GaN Heterostructure. *Choi, J. K.*, +, *JSEN Jan. 2013 80-88*

THz SPICE for Modeling Detectors and Nonquadratic Response at Large Input Signal. *Gutin, A.*, +, *JSEN Jan. 2013 55-62*

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Phase-Sensitive Terahertz Self-Heterodyne System Based on Photodiode and Low-Temperature-Grown GaAs Photoconductor at $1.55\ \mu\text{m}$. *Hisatake, S.*, +, *JSEN Jan. 2013 31-36*

Terahertz wave imaging

“On-the-Fly” Monitoring With a Single-Shot Terahertz Time-Domain Spectrometer. *Jeunesse, P.*, +, *JSEN Jan. 2013 44-49*

Characterization of a Glow Discharge Detector With Terahertz Time Domain Spectroscopy. *Cinar, K.*, +, *JSEN July 2013 2643-2647*

Continuous Wave Spectroscopic Terahertz Imaging With InGaAs Bow-Tie Diodes at Room Temperature. *Kasalynas, I.*, +, *JSEN Jan. 2013 50-54*

InP- and GaAs-Based Plasmonic High-Electron-Mobility Transistors for Room-Temperature Ultrahigh-Sensitive Terahertz Sensing and Imaging. *Watanabe, T.*, +, *JSEN Jan. 2013 89-99*

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Highly Resolved Sub-Terahertz Vibrational Spectroscopy of Biological Macromolecules and Cells. *Globus, T.*, +, *JSEN Jan. 2013 72-79*

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Textile industry

New Potentiometric Carbon Paste Electrode for Determination of Reactive Yellow 160 Dye Concentration in Textile Wastewater. *Ghalwa, N. A.*, +, *JSEN Dec. 2013 4757-4763*

Textile machinery

Woven Temperature and Humidity Sensors on Flexible Plastic Substrates for E-Textile Applications. *Mattana, G.*, +, *JSEN Oct. 2013 3901-3909*

Textiles

Designing Sensitive Wearable Capacitive Sensors for Activity Recognition. *Cheng, J.*, +, *JSEN Oct. 2013 3935-3947*

eCushion: A Textile Pressure Sensor Array Design and Calibration for Sitting Posture Analysis. *Xu, W.*, +, *JSEN Oct. 2013 3926-3934*

Thermal conductivity

Thermal-Piezoresistive Resonators and Self-Sustained Oscillators for Gas Recognition and Pressure Sensing. *Guo, X.*, +, *JSEN Aug. 2013 2863-2872*

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Effects of Polymer Coatings on Temperature Sensitivity of Brillouin Frequency Shift Within Double-Coated Fibers. *Gu, H.*, +, *JSEN Feb. 2013 864-869*

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Ratio-Based Temperature-Sensing Technique Hardened Against Nanometer Process Variations. *Ituero, P.*, +, *JSEN Feb. 2013 442-443*

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Thermal variables measurement

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Linearization of NTC Thermistor Characteristic Using Op-Amp Based Inverting Amplifier. *Sarkar, A. R.*, +, *JSEN Dec. 2013 4621-4626*

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Thermoluminescence

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Thermometers

Stability of Silicon Microelectromechanical Systems Resonant Thermometers. *Ng, E. J.*, +, *JSEN March 2013 987-993*

Thermopiles

A Novel Flexible Thermoelectric Sensor for Intravascular Flow Assessment. *van der Horst, A.*, +, *JSEN Oct. 2013 3883-3891*

Thermoelectric Energy Harvesting of Human Body Heat for Wearable Sensors. *Leonov, V.*, +, *JSEN June 2013 2284-2291*

Versatile Gas Detection System Based on Combined NDIR Transmission and Photoacoustic Absorption Measurements. *Kuhn, K.*, +, *JSEN March 2013 934-940*

Thick film sensors

Classification of Gases/Odors Using Dynamic Responses of Thick Film Gas Sensor Array. *Sunny*, +, *JSEN Dec. 2013 4924-4930*

Development of a Reusable Atomic Oxygen Sensor Using Zinc Oxide Thick Films. *Valer, J. C.*, +, *JSEN Aug. 2013 3046-3052*

Flexible Sputter-Deposited Carbon Strain Sensor. *Tata, U.*, +, *JSEN Feb. 2013 444-445*

Gases/Odors Identification With Artificial Immune Recognition System Using Thick Film Gas Sensor Array Responses. *Sunny*, +, *JSEN Aug. 2013 3039-3045*

Thickness measurement

Detection of SiO₂ Thin Layer by Using a Metallic Mesh Sensor. *Suzuki, T.*, +, *JSEN Dec. 2013 4972-4976*

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Thin film sensors

Ga₂O₃/AlGaIn/GaN Heterostructure Ultraviolet Three-Band Photodetector. *Huang, Z.-D.*, +, *JSEN Sept. 2013 3462-3467*

NH₃ Sensing by p-ZnO Thin Films. *Balakrishnan, L. N.*, +, *JSEN June 2013 2055-2060*

WO₃ Hydrogen Resistive Gas Sensor and Its Wide-Range Current-Mode Electronic Read-Out Circuit. *De Marcellis, A.*, +, *JSEN July 2013 2792-2798*

A Capacitive Humidity Sensor Suitable for CMOS Integration. *Saeidi, N.*, +, *JSEN Nov. 2013 4487-4495*

Application of Microfluidic Device for Lactic Biosensor. *Chou, J.-C.*, +, *JSEN April 2013 1363-1370*

Characteristics of an Optical Fiber Hydrogen Gas Sensor Based on a Palladium and Yttrium Alloy Thin Film. *Liu, Y.*, +, *JSEN July 2013 2699-2704*

Considerations for Lossy-Mode Resonance-Based Optical Fiber Sensor. *Sanchez, P.*, +, *JSEN April 2013 1167-1171*

Flexible and Surface-Mountable Piezoelectric Sensor Arrays for Underwater Sensing in Marine Vehicles. *Asadnia, M.*, +, *JSEN Oct. 2013 3918-3925*

Flexible Wireless Antenna Sensor: A Review. *Huang, H.*, +, *JSEN Oct. 2013 3865-3872*

GaN-Based S₀-Wave Sensors on Silicon for Chemical and Biological Sensing in Liquid Environments. *Lu, X.*, +, *JSEN April 2013 1245-1251*

High Sensitivity, Miniature, Full 2-D Anemometer Based on MEMS Hot-Film Sensors. *Liu, H.-B.*, +, *JSEN May 2013 1914-1920*

High-Efficient Chip to Wafer Self-Alignment and Bonding Applicable to MEMS-IC Flexible Integration. *Lu, J.*, +, *JSEN Feb. 2013 651-656*

Highly Sensitive Lateral Field Excited Piezoelectric Film Acoustic Enzyme Biosensor. *Chen, D.*, +, *JSEN June 2013 2217-2222*

Integration of Thin Film Strain Sensors Into Hard Drives for Active Feedback Vibration Suppression. *Felix, S.*, +, *JSEN May 2013 1708-1715*

Investigations on an Ultra-Thin Bendable Monolithic Si CMOS Image Sensor. *Dogiamis, G. C.*, +, *JSEN Oct. 2013 3892-3900*

Microfluidic Chip With Integrated a-Si:H Photodiodes for Chemiluminescence-Based Bioassays. *Caputo, D.*, +, *JSEN July 2013 2595-2602*

Packageless AlN/ZnO/Si Structure for SAW Devices Applications. *Legrani, O.*, +, *JSEN Feb. 2013 487-491*

Physical-Based Characterization of Noise Responses in Metal-Oxide Gas Sensors. *Contaret, T.*, +, *JSEN March 2013 980-986*

Polypropylene-Carbon Nanofiber Composites as Strain-Gauge Sensor. *Rocha, J. G.*, +, *JSEN July 2013 2603-2609*

Room Temperature Methane Sensor Based on Graphene Nanosheets/Polyaniline Nanocomposite Thin Film. *Wu, Z.*, +, *JSEN Feb. 2013 777-782*

Sol-Gel Iridium Oxide-Based pH Sensor Array on Flexible Polyimide Substrate. *Nguyen, C. M.*, +, *JSEN Oct. 2013 3857-3864*

Stress Averaging in PVDF Sensors For In-Plane Sinusoidal and Impact-Induced Stresses. *Kotian, K.*, +, *JSEN Nov. 2013 4444-4451*

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Characteristics of Flexible Thin-Film Transistors With ZnO Channels. *Ji, L.-W.*, +, *JSEN Dec. 2013 4940-4943*

Thermal Sensor Using Poly-Si Thin-Film Transistors With Self-Aligned and Offset Gate Structures. *Kimura, M.*, +, *JSEN May 2013 1771-1774*

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A Flexible and Robust Large Scale Capacitive Tactile System for Robots. *Maiolino, P.*, +, *JSEN Oct. 2013 3910-3917*

Multi-Walled Carbon Nanotubes/Graphene Oxide Composites for Humidity Sensing. *Li, X.*, +, *JSEN Dec. 2013 4749-4756*

Neural Electrode Array Based on Aluminum: Fabrication and Characterization. *Peixoto, A. C. M.*, +, *JSEN Sept. 2013 3319-3324*

Time of flight mass spectroscopy

NH₃ Sensing by p-ZnO Thin Films. *Balakrishnan, L. N.*, +, *JSEN June 2013 2055-2060*

Time series

HMM-Based Human Fall Detection and Prediction Method Using Tri-Axial Accelerometer. *Tong, L.*, +, *JSEN May 2013 1849-1856*

Modern Methods for the Description of Complex Couplings in the Neurophysiology of Respiration. *Jablonski, I.*, +, *JSEN Sept. 2013 3182-3192*

Time-domain analysis

A Detailed Evaluation of the Correlation-Based Method Used for Estimation of the Brillouin Frequency Shift in BOTDA Sensors. *Farahani, M. A.*, +, *JSEN Dec. 2013 4589-4598*

Acceleration of Measurements in BOTDA Sensors Using Adaptive Linear Prediction. *Farahani, M. A.*, +, *JSEN Jan. 2013 263-272*

Characterization of a Glow Discharge Detector With Terahertz Time Domain Spectroscopy. *Cinar, K.*, +, *JSEN July 2013 2643-2647*

Effects of Polymer Coatings on Temperature Sensitivity of Brillouin Frequency Shift Within Double-Coated Fibers. *Gu, H.*, +, *JSEN Feb. 2013 864-869*

Pressure Sensitization of Brillouin Frequency Shift in Optical Fibers With Double-Layer Polymer Coatings. *Zhang, G.*, +, *JSEN June 2013 2437-2441*

Time-of-arrival estimation

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Epitaxial Single and Double Nanolayers of SnO₂ and TiO₂ for Resistive Gas Sensors. *Rosental, A.*, +, *JSEN May 2013 1648-1655*

Game Theoretic Pattern Analysis for Identification of Odors/Gases Using Response of a Poorly Selective Sensor Array. *Kumar, R.*, +, *JSEN March 2013 1110-1116*

Liquid Phase Deposition Based SnO₂ Gas Sensor Integrated With TaN Heater on a Micro-Hotplate. *Chiou, J.-C.*, +, *JSEN June 2013 2466-2473*

Porous Tin-Oxide-Coated Regenerated Cellulose as Disposable and Low-Cost Alternative Transducer for Urea Detection. *Mahadeva, S. K.*, +, *JSEN June 2013 2223-2228*

Tires

Embedded Flexible Force Sensor for In-Situ Tire-Road Interaction Measurements. *Zhang, Y.*, +, *JSEN May 2013 1756-1765*

Titanium compounds

A Wide Range Conductometric pH Sensor Made With Titanium Dioxide/Multiwall Carbon Nanotube/Cellulose Hybrid Nanocomposite. *Chen, Y.*, +, *JSEN Nov. 2013 4157-4162*

Epitaxial Single and Double Nanolayers of SnO₂ and TiO₂ for Resistive Gas Sensors. *Rosental, A.*, +, *JSEN May 2013 1648-1655*

Photoactivated TiO₂ Gas Chromatograph Detector for Diverse Chemical Compounds Sensing at Room Temperature. *Tian, W.-C.*, +, *JSEN May 2013 1725-1729*

Torque measurement

Novel Online Re-Calibration Method for Multi-Axis Force/Torque Sensor of ITER Welding/Machining Robot. *Roosbahani, H.*, +, *JSEN Nov. 2013 4432-4443*

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Particle Filtering for Acoustic Source Tracking in Impulsive Noise With Alpha-Stable Process. *Zhong, X.*, +, *JSEN Feb. 2013 589-600*

Transducers

A Fiber Bragg Grating RMS Current Transducer Based on the Magnetostriction Effect Using a Terfenol-D Toroidal-Shaped Modulator. *Cremonesi, A. O.*, +, *JSEN Feb. 2013 683-690*

A Flexible and Robust Large Scale Capacitive Tactile System for Robots. *Maiolino, P.*, +, *JSEN Oct. 2013 3910-3917*

Frequency Response Improvement for Inertial Magnetolectric Velocity Sensor Using Frequency-Selected Compensation Network. *Chen, X.*, +, *JSEN Nov. 2013 4141-4146*

Parameters Identification and Modeling of High-Frequency Current Transducer for Partial Discharge Measurements. *Shafiq, M.*, +, *JSEN March 2013 1081-1091*

Porous Tin-Oxide-Coated Regenerated Cellulose as Disposable and Low-Cost Alternative Transducer for Urea Detection. *Mahadeva, S. K.*, +, *JSEN June 2013 2223-2228*

Vapor Discrimination With Single- and Multitransducer Arrays of Nanoparticle-Coated Chemiresistors and Resonators. *Scholten, K.*, +, *JSEN June 2013 2146-2154*

Transfer functions

Arrow-Pointer Sensor Design for Low-Cost Water Meter. *Hsia, S.-C.*, +, *JSEN April 2013 1281-1287*

Dynamic Calibration of Electrochemical Sensor for Accelerated Analyte Quantification. *Yang, F.*, +, *JSEN April 2013 1192-1199*

Spectral Analysis of Vibratory Gyro Noise. *Kim, D.*, +, *JSEN Nov. 2013 4361-4374*

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Data Persistency in Wireless Sensor Networks Using Distributed Luby Transform Codes. *Jafarizadeh, S.*, +, *JSEN Dec. 2013 4880-4890*

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Spatial and Time Patterns Extraction of Eddy Current Pulsed Thermography Using Blind Source Separation. *Bai, L.*, +, *JSEN June 2013 2094-2101*

Transistors

A Low Noise Wide Dynamic Range CMOS Image Sensor With Low-Noise Transistors and 17b Column-Parallel ADCs. *Seo, M.-W.*, +, *JSEN Aug. 2013 2922-2929*

Aerosol-Printed Strain Sensor Using PEDOT:PSS. *Thompson, B.*, +, *JSEN Nov. 2013 4256-4263*

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Iron Oxide-Gold Core-Shell Nanoparticles as Multimodal Imaging Contrast Agent. *Menichetti, L.*, +, *JSEN June 2013 2341-2347*

Sensor Array for Water Analysis Based on Interdigitated Electrodes Modified With Fiber Films of Poly(Lactic Acid)/Multiwalled Carbon Nanotubes. *Oliveira, J. E.*, +, *JSEN Feb. 2013 759-766*

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Wire Fault Location in Coaxial Cables by Impedance Spectroscopy. *Shi, Q.*, +, *JSEN Nov. 2013 4465-4473*

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Humidity-to-Frequency Sensor in CMOS Technology With Wireless Readout. *Cirmirakis, D.*, +, *JSEN March 2013 900-908*

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Triboluminescence

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WO₃ Hydrogen Resistive Gas Sensor and Its Wide-Range Current-Mode Electronic Read-Out Circuit. *De Marcellis, A.*, +, *JSEN July 2013 2792-2798*

Physical-Based Characterization of Noise Responses in Metal-Oxide Gas Sensors. *Contaret, T.*, +, *JSEN March 2013 980-986*

Turbines

Monitoring of Actuation Conditions in a Micro-Turbo-Generator. *Beyaz, M. I.*, +, *JSEN Aug. 2013 2937-2943*

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Monitoring of Actuation Conditions in a Micro-Turbo-Generator. *Beyaz, M. I.*, +, *JSEN Aug. 2013 2937-2943*

Turbomachinery

Numerical Model of the Capacitive Probe's Capacitance for Measuring the External Loads Transmitted by the Bearing's Rolling Elements of Rotating Machines. *Rasolofondraibe, L.*, +, *JSEN Aug. 2013 3067-3072*

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A 2.45-GHz Vivaldi Rectenna for the Remote Activation of an End Device Radio Node. *Congedo, F.*, +, *JSEN Sept. 2013 3454-3461*

RFID Tag Antenna-Based Sensing for Pervasive Surface Crack Detection. *Kalansuriya, P.*, +, *JSEN May 2013 1564-1570*

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A Microwave Resonant Sensor for Concentration Measurements of Liquid Solutions. *Gennarelli, G.*, +, *JSEN May 2013 1857-1864*

A Novel Closed-Loop Readout Topology for Monolithically Integrated Surface Acoustic Wave Sensors. *Rakshit, S.*, +, *JSEN Nov. 2013 4264-4270*

Characterizing the Sensitivity of UHF Partial Discharge Sensors Using FDTD Modeling. *Ishak, A. M.*, +, *JSEN Aug. 2013 3025-3031*

Precise Moisture Monitoring for Various Soil Types Using Handheld Microwave-Sensor Meter. *You, K. Y.*, +, *JSEN July 2013 2563-2570*

UHF integrated circuits

On-Chip MOSFET Temperature Sensor for Electrical Characterization of RF Circuits. *Reverter, F.*, +, *JSEN Sept. 2013 3343-3344*

UHF measurement

A Microwave Resonant Sensor for Concentration Measurements of Liquid Solutions. *Gennarelli, G.*, +, *JSEN May 2013 1857-1864*

UHF oscillators

A Novel Closed-Loop Readout Topology for Monolithically Integrated Surface Acoustic Wave Sensors. *Rakshit, S.*, +, *JSEN Nov. 2013 4264-4270*

UHF power amplifiers

On-Chip MOSFET Temperature Sensor for Electrical Characterization of RF Circuits. *Reverter, F.*, +, *JSEN Sept. 2013 3343-3344*

UHF resonators

Passive Wireless Sensor Platform Utilizing a Mechanical Resonator. *Viikari, V.*, +, *JSEN April 2013 1180-1186*

Ultra wideband antennas

Active Millimeter Wave Sensor for Standoff Concealed Threat Detection. *Andrews, D. A.*, +, *JSEN Dec. 2013 4948-4954*

Ultra wideband communication

Indoor Localization With Range-Based Measurements and Little Prior Information. *Arias-de-Reyna, E.*, +, *JSEN May 2013 1979-1987*

Ultra wideband technology

Characterization on Clustered Propagations of UWB Sensors in Vehicle Cabin: Measurement, Modeling and Evaluation. *Li, B.*, +, *JSEN April 2013 1288-1300*

Ultrasonic devices

Classification of Animals and People Ultrasonic Signatures. *Damarla, T.*, +, *JSEN MAY 2013 1464-1472*

High Sensitivity, Miniature, Full 2-D Anemometer Based on MEMS Hot-Film Sensors. *Liu, H.-B., +, JSEN May 2013 1914-1920*

Ultrasonic measurement

High Sensitivity, Miniature, Full 2-D Anemometer Based on MEMS Hot-Film Sensors. *Liu, H.-B., +, JSEN May 2013 1914-1920*

Ultrasonic transducers

Impedance-Based Temperature Sensing With Piezoceramic Devices. *Ilg, J., +, JSEN June 2013 2442-2449*

Issues in Wall Tracking With a CTFM Ultrasonic Sensor. *Antoun, S. M., +, JSEN Dec. 2013 4671-4681*

Self-Configuring Scheduling Protocol for Ultrasonic Sensor Systems. *Srinivasan, S., +, JSEN July 2013 2517-2518*

Ultraviolet detectors

Ga₂O₃/AlGaIn/GaN Heterostructure Ultraviolet Three-Band Photodetector. *Huang, Z.-D., +, JSEN Sept. 2013 3462-3467*

ZnO-Cellulose Composite for UV Sensing. *Gimenez, A. J., +, JSEN April 2013 1301-1306*

Ultraviolet spectra

Highly Resolved Sub-Terahertz Vibrational Spectroscopy of Biological Macromolecules and Cells. *Globus, T., +, JSEN Jan. 2013 72-79*

Iron Oxide-Gold Core-Shell Nanoparticles as Multimodal Imaging Contrast Agent. *Menichetti, L., +, JSEN June 2013 2341-2347*

Uncertainty

Selective Weighing of Individual Microparticles Using a Hybrid Micromanipulator-Nanomechanical Resonator System. *Chan, B.-D., +, JSEN Aug. 2013 2857-2862*

Underground cables

Operation-State Monitoring and Energization-Status Identification for Underground Power Cables by Magnetic Field Sensing. *Sun, X., +, JSEN Nov. 2013 4527-4533*

Underwater acoustic communication

A Link-State Based Adaptive Feedback Routing for Underwater Acoustic Sensor Networks. *Zhang, S., +, JSEN Nov. 2013 4402-4412*

Mobicast Routing Protocol for Underwater Sensor Networks. *Chen, Y.-S., +, JSEN Feb. 2013 737-749*

Underwater equipment

Electrolocation Sensors in Conducting Water Bio-Inspired by Electric Fish. *Servagent, N., +, JSEN May 2013 1865-1882*

Flexible and Surface-Mountable Piezoelectric Sensor Arrays for Underwater Sensing in Marine Vehicles. *Asadnia, M., +, JSEN Oct. 2013 3918-3925*

Underwater vehicles

2-D Thermal Velocity Sensor for Submersible Navigation and Minute Flow Measurements. *Palmer, K., +, JSEN Jan. 2013 359-370*

Flexible and Surface-Mountable Piezoelectric Sensor Arrays for Underwater Sensing in Marine Vehicles. *Asadnia, M., +, JSEN Oct. 2013 3918-3925*

Units (measurement)

Discrete-Time H_∞ Filtering for Mobile Robot Localization Using Wireless Sensor Network. *Hur, H., +, JSEN Jan. 2013 245-252*

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Vacuum apparatus

Novel Online Re-Calibration Method for Multi-Axis Force/Torque Sensor of ITER Welding/Machining Robot. *Roozbahani, H., +, JSEN Nov. 2013 4432-4443*

Varactors

A Wireless Passive Sensor for Temperature Compensated Remote pH Monitoring. *Bhadra, S., +, JSEN June 2013 2428-2436*

Vegetation

An Efficient Hybrid Classification Approach for Land Use/Land Cover Analysis in a Semi-Desert Area Using ETM+ and LISS-III Sensor. *Kumar, P., +, JSEN June 2013 2161-2165*

Vehicular ad hoc networks

When 3G Meets VANET: 3G-Assisted Data Delivery in VANETs. *Zhao, Q., +, JSEN Oct. 2013 3575-3584*

Velocimeters

Two-Mass MEMS Velocity Sensor: Internal Feedback Loop Design. *Alshehri, A., +, JSEN March 2013 1003-1011*

Velocity measurement

2-D Thermal Velocity Sensor for Submersible Navigation and Minute Flow Measurements. *Palmer, K., +, JSEN Jan. 2013 359-370*

Flexible and Surface-Mountable Piezoelectric Sensor Arrays for Underwater Sensing in Marine Vehicles. *Asadnia, M., +, JSEN Oct. 2013 3918-3925*

Frequency Response Improvement for Inertial Magnetolectric Velocity Sensor Using Frequency-Selected Compensation Network. *Chen, X., +, JSEN Nov. 2013 4141-4146*

Gearbox Speed Sensor Design and Performance Optimization. *Manyala, J. O., +, JSEN Feb. 2013 629-636*

Very high speed integrated circuits

Parallel-Data Reconstruction for Limited Views Tomography Sensors by Sinusoidal Hough Transform. *Cantoral-Ceballos, J. A., +, JSEN Feb. 2013 581-588*

Veterinary medicine

Fish Heart Rate Monitoring by Body-Contact Doppler Radar. *Hafner, N., +, JSEN Jan. 2013 408-414*

VHF circuits

A Novel Closed-Loop Readout Topology for Monolithically Integrated Surface Acoustic Wave Sensors. *Rakshit, S., +, JSEN Nov. 2013 4264-4270*

VHF oscillators

A Novel Closed-Loop Readout Topology for Monolithically Integrated Surface Acoustic Wave Sensors. *Rakshit, S., +, JSEN Nov. 2013 4264-4270*

Vibration control

Frequency Response Improvement for Inertial Magnetolectric Velocity Sensor Using Frequency-Selected Compensation Network. *Chen, X., +, JSEN Nov. 2013 4141-4146*

Integration of Thin Film Strain Sensors Into Hard Drives for Active Feedback Vibration Suppression. *Felix, S., +, JSEN May 2013 1708-1715*

Piezoelectric Vibratory-Cantilever Force Sensors and Axial Sensitivity Analysis for Individual Triaxial Tactile Sensing. *Yamashita, K., +, JSEN March 2013 1074-1080*

Vibration measurement

Aerosol-Printed Strain Sensor Using PEDOT:PSS. *Thompson, B., +, JSEN Nov. 2013 4256-4263*

An Active Temperature Compensated Fiber-Optic Fabry-Perot Accelerometer System for Simultaneous Measurement of Vibration and Temperature. *Jia, P.-G., +, JSEN June 2013 2334-2340*

Contactless Liquid-Level Measurement With Frequency-Modulated Millimeter Wave Through Opaque Container. *Nakagawa, T., +, JSEN March 2013 926-933*

Development of a Non-Contact Sensing Method for Scratching Activity Measurement. *Kurihara, Y., +, JSEN Sept. 2013 3325-3330*

Dual-Channel Self-Mixing Vibration Measurement System in a Linear Cavity Fiber Laser. *Lu, L., +, JSEN Nov. 2013 4387-4392*

Flexible and Surface-Mountable Piezoelectric Sensor Arrays for Underwater Sensing in Marine Vehicles. *Asadnia, M., +, JSEN Oct. 2013 3918-3925*

Frequency Response Improvement for Inertial Magnetolectric Velocity Sensor Using Frequency-Selected Compensation Network. *Chen, X., +, JSEN Nov. 2013 4141-4146*

Piezoelectric Vibratory-Cantilever Force Sensors and Axial Sensitivity Analysis for Individual Triaxial Tactile Sensing. *Yamashita, K., +, JSEN March 2013 1074-1080*

Study of Laser Feedback Phase Under Self-Mixing Leading to Improved Phase Unwrapping for Vibration Sensing. *Bernal, O. D., +, JSEN Dec. 2013 4962-4971*

Vision-Based Displacement Sensor for Monitoring Dynamic Response Using Robust Object Search Algorithm. *Fukuda, Y., +, JSEN Dec. 2013 4725-4732*

Vibrational modes

Highly Resolved Sub-Terahertz Vibrational Spectroscopy of Biological Macromolecules and Cells. *Globus, T., +, JSEN Jan. 2013 72-79*

Vibrations

A Wireless Hybrid Chemical Sensor for Detection of Environmental Volatile Organic Compounds. *Chen, C., +, JSEN May 2013 1748-1755*

Application of a Fiber Bragg Grating-Based Sensing System on Investigating Dynamic Behaviors of a Cantilever Beam Under Impact or Moving Mass Loadings. *Chuang, K.-C., +, JSEN Jan. 2013 389-399*

Architecture Exploration for a High-Performance and Low-Power Wireless Vibration Analyzer. *Shahzad, K., +, JSEN Feb. 2013 670-682*

Dynamics-Based Stereo Visual Inspection Using Multidimensional Modal Analysis. *Yang, H., +, JSEN Dec. 2013 4831-4843*

Effects of Mass Layer Stiffness and Imperfect Bonding on a Quartz Crystal Microbalance. *Li, X.*, +, *JSEN Feb. 2013 574-580*

Experimental Study and Implementation of a Novel Digital Closed-Loop Control System for Coriolis Mass Flowmeter. *Hu, C.*, +, *JSEN Aug. 2013 3032-3038*

Low-Power Circuits and Energy Harvesting for Structural Health Monitoring of Bridges. *Wardlaw, J. L.*, +, *JSEN Feb. 2013 709-722*

Video cameras

Vision-Based Displacement Sensor for Monitoring Dynamic Response Using Robust Object Search Algorithm. *Fukuda, Y.*, +, *JSEN Dec. 2013 4725-4732*

Video signal processing

Dynamics-Based Stereo Visual Inspection Using Multidimensional Modal Analysis. *Yang, H.*, +, *JSEN Dec. 2013 4831-4843*

Video surveillance

Classification of Animals and People Ultrasonic Signatures. *Damarla, T.*, +, *JSEN MAY 2013 1464-1472*

Visual-Based Human Crowds Behavior Analysis Based on Graph Modeling and Matching. *Chen, D.-Y.*, +, *JSEN June 2013 2129-2138*

Visible spectra

Highly Resolved Sub-Terahertz Vibrational Spectroscopy of Biological Macromolecules and Cells. *Globus, T.*, +, *JSEN Jan. 2013 72-79*

Iron Oxide-Gold Core-Shell Nanoparticles as Multimodal Imaging Contrast Agent. *Menichetti, L.*, +, *JSEN June 2013 2341-2347*

Wideband Visible Wavelength Range MEMS Fabry–Perot Tunable Filter With Highly Accurate Calibration System. *Hirokubo, N.*, +, *JSEN Aug. 2013 2930-2936*

Vision

Ocular Biometric Measurements to Diagnose Neurological Disorders Due to Wilson Disease. *Morello, R.*, +, *JSEN Sept. 2013 3203-3210*

Visual perception

New Flash ADC Scheme With Maximal 13 Bit Variable Resolution and Reduced Clipped Noise for High-Performance Imaging Sensor. *Jin, X.*, +, *JSEN Jan. 2013 167-171*

Voltage dividers

Capacitive Sensing of Antenna Loading With an R–C Voltage Divider in a Tunable Antenna. *Huttunen, A.*, +, *JSEN Feb. 2013 849-853*

Voltage measurement

Novel Optimization Algorithm to Demodulate a PZT-FBG Sensor in AC High Voltage Measurements. *de Assumpcao Ribeiro, B.*, +, *JSEN April 2013 1259-1264*

Signal Detection for Optical AC and DC Voltage Sensors Based on Pockels Effect. *Li, H.*, +, *JSEN June 2013 2245-2252*

Voltage multipliers

A 2.45-GHz Vivaldi Rectenna for the Remote Activation of an End Device Radio Node. *Congedo, F.*, +, *JSEN Sept. 2013 3454-3461*

Voltage regulators

Wideband Visible Wavelength Range MEMS Fabry–Perot Tunable Filter With Highly Accurate Calibration System. *Hirokubo, N.*, +, *JSEN Aug. 2013 2930-2936*

Voltage-controlled oscillators

A Novel Closed-Loop Readout Topology for Monolithically Integrated Surface Acoustic Wave Sensors. *Rakshit, S.*, +, *JSEN Nov. 2013 4264-4270*

Voltammetry (chemical analysis)

Fish Freshness Monitoring Using an E-Tongue Based on Polypyrrole Modified Screen-Printed Electrodes. *Apetrei, I. M.*, +, *JSEN July 2013 2548-2554*

Metal-Silver Based Electrodes as Sensitive Surfaces for Electrochemical Detection of Thio-Heterocycles. *Lai-Hao, W.*, +, *JSEN Sept. 2013 3442-3448*

Room Temperature Ionic Liquid/Multiwalled Carbon Nanotube/Chitosan-Modified Glassy Carbon Electrode as a Sensor for Simultaneous Determination of Ascorbic Acid, Uric Acid, Acetaminophen, and Mefenamic Acid. *Kianipour, S.*, +, *JSEN July 2013 2690-2698*

The Novel Carbon Nanomaterials Electrochemical Sensor for Determination of Trace Aluminum in Human Body Fluids With 8-Hydroxyquinoline. *Tang, Y.-Z.*, +, *JSEN Sept. 2013 3270-3275*

Volume measurement

Fiber-Optic Volumetric Sensor Based on Beer-Lambert Principle. *Husain, I.*, +, *JSEN Sept. 2013 3345-3346*

Tidal Volume Measurement Through Non-Contact Doppler Radar With DC Reconstruction. *Massagram, W.*, +, *JSEN Sept. 2013 3397-3404*

W

Wafer bonding

Bendable Ultra-Thin Chips on Flexible Foils. *Dahiya, R. S.*, +, *JSEN Oct. 2013 4030-4037*

Wafer-scale integration

High-Efficient Chip to Wafer Self-Alignment and Bonding Applicable to MEMS-IC Flexible Integration. *Lu, J.*, +, *JSEN Feb. 2013 651-656*

Wakes

Integrated Impactor/Detector for a High-Throughput Explosive-Trace Detection Portal. *Fulghum, M. R.*, +, *JSEN April 2013 1252-1258*

Wastewater

New Potentiometric Carbon Paste Electrode for Determination of Reactive Yellow 160 Dye Concentration in Textile Wastewater. *Ghalwa, N. A.*, +, *JSEN Dec. 2013 4757-4763*

Water

Electrolocation Sensors in Conducting Water Bio-Inspired by Electric Fish. *Servagent, N.*, +, *JSEN May 2013 1865-1882*

Micro-Ball Lensed Fiber-Based Glucose Sensor. *Harun, S. W.*, +, *JSEN Jan. 2013 348-350*

Sensor Array for Water Analysis Based on Interdigitated Electrodes Modified With Fiber Films of Poly(Lactic Acid)/Multiwalled Carbon Nanotubes. *Oliveira, J. E.*, +, *JSEN Feb. 2013 759-766*

Water meters

Arrow-Pointer Sensor Design for Low-Cost Water Meter. *Hsia, S.-C.*, +, *JSEN April 2013 1281-1287*

Water pollution measurement

A Portable Sensor With Disposable Electrodes for Water Bacterial Quality Assessment. *Grossi, M.*, +, *JSEN May 2013 1775-1782*

An Associative Relational Impact of Water Quality on Crop Yield: A Comprehensive Index Analysis Using LISS-III Sensor. *Singh, K.*, +, *JSEN Dec. 2013 4912-4917*

Water quality

A Portable Sensor With Disposable Electrodes for Water Bacterial Quality Assessment. *Grossi, M.*, +, *JSEN May 2013 1775-1782*

Waveform analysis

A Deramping-Based Multiband Radar Sensor Concept With Enhanced ISAR Capabilities. *Munoz-Ferreras, J.-M.*, +, *JSEN Sept. 2013 3361-3368*

Wavelet transforms

Architecture of Noninvasive Real Time Visual Monitoring System for Dial Type Measuring Instrument. *Jaffery, Z. A.*, +, *JSEN April 2013 1236-1244*

Empirical Mode Decomposition vs. Wavelet Decomposition for the Extraction of Respiratory Signal From Single-Channel ECG: A Comparison. *Labate, D.*, +, *JSEN July 2013 2666-2674*

Weapons

A Design and Assessment of a Direction Finding Proximity Fuze Sensor. *Choi, J.-H.*, +, *JSEN Aug. 2013 3079-3089*

Portable Passive Millimeter-Wave Sensor for Detecting Concealed Weapons and Explosives Hidden on a Human Body. *Kapilevich, B.*, +, *JSEN Nov. 2013 4224-4228*

Weaving

Woven Temperature and Humidity Sensors on Flexible Plastic Substrates for E-Textile Applications. *Mattana, G.*, +, *JSEN Oct. 2013 3901-3909*

Weighing

Inkjet Printed All-Polymer Flexural Plate Wave Sensors. *Sielmann, C. J.*, +, *JSEN Oct. 2013 4005-4013*

Wetting

Droplet-Based Sensing: Optical Microresonator Sensors Embedded in Digital Electrowetting Microfluidics Systems. *Royal, M. W.*, +, *JSEN Dec. 2013 4733-4742*

Wheels

Wheel Flat Detection in High-Speed Railway Systems Using Fiber Bragg Gratings. *Filigrano, M. L.*, +, *JSEN Dec. 2013 4808-4816*

Whispering gallery modes

Differentiation Between Analyte Adsorption and Homogenous Index Sensing in WGM Biodetection. *Charlebois, M.*, +, *JSEN Jan. 2013 229-233*

Wide band gap semiconductors

Ga₂O₃/AlGaIn/GaN Heterostructure Ultraviolet Three-Band Photodetector. *Huang, Z.-D.*, +, *JSEN Sept. 2013 3462-3467*

NH₃ Sensing by p-ZnO Thin Films. *Balakrishnan, L. N.*, +, *JSEN June 2013 2055-2060*

NO₂ Detection With AlGaIn/GaN 2DEG Channels for Air Quality Monitoring. *Offermans, P.*, +, *JSEN Aug. 2013 2823-2827*

- A Wireless-Transfer-Based Hydrogen Gas Sensing System With a Pd/AlGaN/GaN Heterostructure Field-Effect Transistor (HFET). *Hsu, C.-S.*, +, *JSEN June 2013 2299-2304*
- Characteristics of Flexible Thin-Film Transistors With ZnO Channels. *Ji, L.-W.*, +, *JSEN Dec. 2013 4940-4943*
- Constructing a Novel Asymmetric Dielectric Structure Toward the Realization of High-Performance Surface Plasmon Resonance Biosensors. *Chiu, N.-F.*, +, *JSEN Sept. 2013 3483-3489*
- Detecting Mechanoluminescence From ZnS:Mn Powder Using a High Speed Camera. *Kobakhidze, L.*, +, *JSEN Aug. 2013 3053-3059*
- Detection of Transplant Rejection Chemokine Protein Biomarker in Physiological Salt Concentration. *Tulip, F. S.*, +, *JSEN Feb. 2013 438-439*
- GaN-Based S₀-Wave Sensors on Silicon for Chemical and Biological Sensing in Liquid Environments. *Lu, X.*, +, *JSEN April 2013 1245-1251*
- Highly Sensitive Lateral Field Excited Piezoelectric Film Acoustic Enzyme Biosensor. *Chen, D.*, +, *JSEN June 2013 2217-2222*
- Hydrogen-Sensing Properties of a Pd/AlGaN/GaN-Based Field-Effect Transistor Under a Nitrogen Ambience. *Hsu, C.-S.*, +, *JSEN May 2013 1787-1793*
- InGaN/GaN Multiquantum-Well Metal-Semiconductor-Metal Photodetectors With Beta-Ga₂O₃ Cap Layers. *Huang, Z.-D.*, +, *JSEN April 2013 1187-1191*
- Integration of Thin Film Strain Sensors Into Hard Drives for Active Feedback Vibration Suppression. *Felix, S.*, +, *JSEN May 2013 1708-1715*
- Nitro-Aromatic Explosive Sensing Using GaN Nanowire-Titania Nanocluster Hybrids. *Aluri, G. S.*, +, *JSEN May 2013 1883-1888*
- Packageless AlN/ZnO/Si Structure for SAW Devices Applications. *Legrani, O.*, +, *JSEN Feb. 2013 487-491*
- THz Hot-Electron Micro-Bolometer Based on Low-Mobility 2-DEG in GaN Heterostructure. *Choi, J. K.*, +, *JSEN Jan. 2013 80-88*
- Wiener filters**
- Improving the Spatial Resolution of Magneto Resistive Sensors via Deconvolution. *Holz, P. A.*, +, *JSEN Nov. 2013 4296-4304*
- Wind**
- High Sensitivity, Miniature, Full 2-D Anemometer Based on MEMS Hot-Film Sensors. *Liu, H.-B.*, +, *JSEN May 2013 1914-1920*
- Wireless channels**
- Cooperative Robotic Structure Mapping Using Wireless Measurements—A Comparison of Random and Coordinated Sampling Patterns. *Gonzalez-Ruiz, A.*, +, *JSEN July 2013 2571-2580*
- Distributed Fuzzy Logic-Based Relay Selection Algorithm for Cooperative Wireless Sensor Networks. *Brante, G.*, +, *JSEN Nov. 2013 4375-4386*
- Scalable Channel Allocation and Access Scheduling for Wireless Internet-of-Things. *Wu, D.*, +, *JSEN Oct. 2013 3596-3604*
- Tradeoff Between Throughput and Energy Consumption in Multirate Wireless Sensor Networks. *Xie, D.*, +, *JSEN Oct. 2013 3667-3676*
- Wireless Energy and Data Transfer for In-Vivo Epileptic Focus Localization. *Yilmaz, G.*, +, *JSEN Nov. 2013 4172-4179*
- Wireless communication**
- A Distributed Localization Algorithm for Wireless Sensor Networks Based on the Solutions of Spatially-Constrained Local Problems. *Cota-Ruiz, J.*, +, *JSEN June 2013 2181-2191*
- Guest Editorial - Special Issue on Internet of Things (IoT): Architecture, Protocols and Services. *Wang, C.*, +, *JSEN Oct. 2013 3505-3510*
- Wireless LAN**
- EPS: An Efficient and Privacy-Preserving Service Searching Scheme for Smart Community. *Liang, X.*, +, *JSEN Oct. 2013 3702-3710*
- Modeling Latency and Reliability of Hybrid Technology Networking. *Shrestha, P. L.*, +, *JSEN Oct. 2013 3616-3624*
- Scalable Channel Allocation and Access Scheduling for Wireless Internet-of-Things. *Wu, D.*, +, *JSEN Oct. 2013 3596-3604*
- The Impact of Rank Attack on Network Topology of Routing Protocol for Low-Power and Lossy Networks. *Le, A.*, +, *JSEN Oct. 2013 3685-3692*
- Wireless sensor networks**
- A 2.45-GHz Vivaldi Rectenna for the Remote Activation of an End Device Radio Node. *Congedo, F.*, +, *JSEN Sept. 2013 3454-3461*
- A Bipopulation-Based Evolutionary Algorithm for Solving Full Area Coverage Problems. *Seok, J.-H.*, +, *JSEN Dec. 2013 4796-4807*
- A Delay-Aware Network Structure for Wireless Sensor Networks With Consecutive Data Collection Processes. *Cheng, C.-T.*, +, *JSEN June 2013 2413-2422*
- A Delay-Aware Network Structure for Wireless Sensor Networks With In-Network Data Fusion. *Cheng, C.-T.*, +, *JSEN May 2013 1622-1631*
- A Distributed Localization Algorithm for Wireless Sensor Networks Based on the Solutions of Spatially-Constrained Local Problems. *Cota-Ruiz, J.*, +, *JSEN June 2013 2181-2191*
- A Distributed RSS-Based Localization Using a Dynamic Circle Expanding Mechanism. *Jiang, J.-A.*, +, *JSEN Oct. 2013 3754-3766*
- A Fully Distributed Geo-Routing Scheme for Wireless Sensor Networks. *Bader, A.*, +, *JSEN Dec. 2013 4585-4586*
- A Link-State Based Adaptive Feedback Routing for Underwater Acoustic Sensor Networks. *Zhang, S.*, +, *JSEN Nov. 2013 4402-4412*
- A Novel Sensing Nodes and Decision Node Selection Method for Energy Efficiency of Cooperative Spectrum Sensing in Cognitive Sensor Networks. *Najimi, M.*, +, *JSEN May 2013 1610-1621*
- A Tessellation-Based Localized Chain Construction Scheme for Chain-Oriented Sensor Networks. *Mamun, Q.*, +, *JSEN July 2013 2648-2658*
- A Wireless Hybrid Chemical Sensor for Detection of Environmental Volatile Organic Compounds. *Chen, C.*, +, *JSEN May 2013 1748-1755*
- A Wireless Passive Sensor for Temperature Compensated Remote pH Monitoring. *Bhadra, S.*, +, *JSEN June 2013 2428-2436*
- A Wireless-Transfer-Based Hydrogen Gas Sensing System With a Pd/AlGaN/GaN Heterostructure Field-Effect Transistor (HFET). *Hsu, C.-S.*, +, *JSEN June 2013 2299-2304*
- Ambient RF Energy Harvesting Sensor Device With Capacitor-Leakage-Aware Duty Cycle Control. *Shigeta, R.*, +, *JSEN Aug. 2013 2973-2983*
- An Intelligent Hybrid MAC With Traffic-Differentiation-Based QoS for Wireless Sensor Networks. *Arifuzzaman, M.*, +, *JSEN June 2013 2391-2399*
- Analysis of Energy Efficiency of Compressive Sensing in Wireless Sensor Networks. *Karakus, C.*, +, *JSEN May 2013 1999-2008*
- Architecture Exploration for a High-Performance and Low-Power Wireless Vibration Analyzer. *Shahzad, K.*, +, *JSEN Feb. 2013 670-682*
- Battery-Friendly Packet Transmission Algorithms for Wireless Sensor Networks. *Li, H.*, +, *JSEN Oct. 2013 3548-3557*
- Characterization on Clustered Propagations of UWB Sensors in Vehicle Cabin: Measurement, Modeling and Evaluation. *Li, B.*, +, *JSEN April 2013 1288-1300*
- Context-Adaptive Multimodal Wireless Sensor Network for Energy-Efficient Gas Monitoring. *Jelicic, V.*, +, *JSEN Jan. 2013 328-338*
- Convergence of MANET and WSN in IoT Urban Scenarios. *Bellavista, P.*, +, *JSEN Oct. 2013 3558-3567*
- Cooperative Robotic Structure Mapping Using Wireless Measurements—A Comparison of Random and Coordinated Sampling Patterns. *Gonzalez-Ruiz, A.*, +, *JSEN July 2013 2571-2580*
- Coverage-Enhancing Algorithm Based on Overlap-Sense Ratio in Wireless Multimedia Sensor Networks. *Chen, J.*, +, *JSEN June 2013 2077-2083*
- Cross-Layer Solutions for Extended-Range Wireless Sensor Networks. *Lin, C.-K.*, +, *JSEN March 2013 1044-1054*
- Data Persistence in Wireless Sensor Networks Using Distributed Luby Transform Codes. *Jafarizadeh, S.*, +, *JSEN Dec. 2013 4880-4890*
- Design of Pervasive Rehabilitation Monitoring for Chronic Obstructive Pulmonary Disease. *Wu, M.-F.*, +, *JSEN Nov. 2013 4413-4422*
- Detecting Mechanoluminescence From ZnS:Mn Powder Using a High Speed Camera. *Kobakhidze, L.*, +, *JSEN Aug. 2013 3053-3059*
- Discrete-Time H_{∞} Filtering for Mobile Robot Localization Using Wireless Sensor Network. *Hur, H.*, +, *JSEN Jan. 2013 245-252*
- Distributed Clustering With Directional Antennas for Wireless Sensor Networks. *Chen, Y.-C.*, +, *JSEN June 2013 2166-2180*
- Distributed Fuzzy Logic-Based Relay Selection Algorithm for Cooperative Wireless Sensor Networks. *Brante, G.*, +, *JSEN Nov. 2013 4375-4386*
- Distributed Reference-Free Fault Detection Method for Autonomous Wireless Sensor Networks. *Lo, C.*, +, *JSEN May 2013 2009-2019*
- DuRT: Dual RSSI Trend Based Localization for Wireless Sensor Networks. *Sahu, P. K.*, +, *JSEN Aug. 2013 3115-3123*
- Dynamically Reconfigurable Hardware With a Novel Scheduling Strategy in Energy-Harvesting Sensor Networks. *Li, Y.*, +, *JSEN May 2013 2032-2038*
- Edge Mining the Internet of Things. *Gaura, E. I.*, +, *JSEN Oct. 2013 3816-3825*
- Electromechanical Energy Scavenging From Current-Carrying Conductors. *Paprotny, I.*, +, *JSEN Jan. 2013 190-201*
- Estimating Crowd Density in an RF-Based Dynamic Environment. *Yuan, Y.*, +, *JSEN Oct. 2013 3837-3845*
- Fast Design Space Exploration of Vibration-Based Energy Harvesting Wireless Sensors. *Kazmierski, T. J.*, +, *JSEN Nov. 2013 4393-4401*
- Fault Node Recovery Algorithm for a Wireless Sensor Network. *Shih, H.-C.*, +, *JSEN July 2013 2683-2689*

- Flexible Wireless Antenna Sensor: A Review. *Huang, H.*, +, *JSEN Oct. 2013 3865-3872*
- Fuzzy Logic Based Multidimensional Link Quality Estimation for Multi-Hop Wireless Sensor Networks. *Guo, Z.-Q.*, +, *JSEN Oct. 2013 3605-3615*
- Guest Editorial - Special Issue on Internet of Things (IoT): Architecture, Protocols and Services. *Wang, C.*, +, *JSEN Oct. 2013 3505-3510*
- Guest Editorial—Special Issue on Selected Papers From the 11th IEEE Sensors Conference 2012. *Fang, W.*, +, *JSEN Aug. 2013 2809*
- Harvesting Energy From Magnetic Fields to Power Condition Monitoring Sensors. *Roscoe, N. M.*, +, *JSEN June 2013 2263-2270*
- High-Efficient Chip to Wafer Self-Alignment and Bonding Applicable to MEMS-IC Flexible Integration. *Lu, J.*, +, *JSEN Feb. 2013 651-656*
- Humidity-to-Frequency Sensor in CMOS Technology With Wireless Readout. *Cirmirakis, D.*, +, *JSEN March 2013 900-908*
- iLight: Device-Free Passive Tracking Using Wireless Sensor Networks. *Mao, X.*, +, *JSEN Oct. 2013 3785-3792*
- Indoor Localization With Range-Based Measurements and Little Prior Information. *Arias-de-Reyna, E.*, +, *JSEN May 2013 1979-1987*
- Kernel Weighted Scheme for Improving Mobile Sensor-Node Connectivity. *Yu, M.-C.*, +, *JSEN April 2013 1200-1206*
- LCM: A Link-Aware Clustering Mechanism for Energy-Efficient Routing in Wireless Sensor Networks. *Wang, S. S.*, +, *JSEN Feb. 2013 728-736*
- Light-Harvesting Wireless Sensors for Indoor Lighting Control. *Pandharipande, A.*, +, *JSEN Dec. 2013 4599-4606*
- Load-Balanced Clustering Algorithm With Distributed Self-Organization for Wireless Sensor Networks. *Liao, Y.*, +, *JSEN May 2013 1498-1506*
- Low Power Wireless Sensor Network for Building Monitoring. *Torfis, T.*, +, *JSEN March 2013 909-915*
- Low-Power Circuits and Energy Harvesting for Structural Health Monitoring of Bridges. *Wardlaw, J. L.*, +, *JSEN Feb. 2013 709-722*
- Maximizing the Lifetime of k -Discrete Barrier Coverage Using Mobile Sensors. *Du, J.*, +, *JSEN Dec. 2013 4690-4701*
- Mobicast Routing Protocol for Underwater Sensor Networks. *Chen, Y.-S.*, +, *JSEN Feb. 2013 737-749*
- Modeling Latency and Reliability of Hybrid Technology Networking. *Shrestha, P. L.*, +, *JSEN Oct. 2013 3616-3624*
- Nonuniform Compressive Sensing for Heterogeneous Wireless Sensor Networks. *Shen, Y.*, +, *JSEN June 2013 2120-2128*
- Novel Miniature Airflow Energy Harvester for Wireless Sensing Applications in Buildings. *Zhu, D.*, +, *JSEN Feb. 2013 691-700*
- On Design of Collaborative Mobile Sensor Networks for Deadline-Sensitive Mobile Target Detection. *Hsu, C.-C.*, +, *JSEN Aug. 2013 2962-2972*
- On Network Lifetime Expectancy With Realistic Sensing and Traffic Generation Model in Wireless Sensor Networks. *Chakraborty, A.*, +, *JSEN July 2013 2771-2779*
- On the Use of Modified Cramér-Rao Bound in Sensor Deployment. *Pino-Povedano, S.*, +, *JSEN Nov. 2013 4163-4171*
- Online Monitoring of Geological CO₂ Storage and Leakage Based on Wireless Sensor Networks. *Yang, H.*, +, *JSEN Feb. 2013 556-562*
- Optimization of Voltage Doublers for Energy Harvesting Applications. *Roscoe, N. M.*, +, *JSEN Dec. 2013 4904-4911*
- Passive Wireless Sensor Platform Utilizing a Mechanical Resonator. *Viikari, V.*, +, *JSEN April 2013 1180-1186*
- Path Planning Algorithm for Mobile Anchor-Based Localization in Wireless Sensor Networks. *Ou, C.-H.*, +, *JSEN Feb. 2013 466-475*
- Percolation Theory-Based Exposure-Path Prevention for Wireless Sensor Networks Coverage in Internet of Things. *Liu, L.*, +, *JSEN Oct. 2013 3625-3636*
- Phase Transition Analysis of Target Coverage Problem in Wireless Sensor Networks. *Mini, S.*, +, *JSEN July 2013 2742-2749*
- Practical Secure Communication for Integrating Wireless Sensor Networks Into the Internet of Things. *Li, F.*, +, *JSEN Oct. 2013 3677-3684*
- Quality-Driven Energy-Neutralized Power and Relay Selection for Smart Grid Wireless Multimedia Sensor Based IoTs. *Yao, R.*, +, *JSEN Oct. 2013 3637-3644*
- Query-Driven Tracing for a Multiuser Scenario in Wireless Sensor Networks. *Liu, X.*, +, *JSEN Aug. 2013 3016-3024*
- Ratiometric Voltage-to-Frequency Converter for Long-Life Autonomous Portable Equipment. *Azcona, C.*, +, *JSEN June 2013 2382-2390*
- Scalable Channel Allocation and Access Scheduling for Wireless Internet-of-Things. *Wu, D.*, +, *JSEN Oct. 2013 3596-3604*
- Spectrum Sensing in Opportunity-Heterogeneous Cognitive Sensor Networks: How to Cooperate?. *Ding, G.*, +, *JSEN Nov. 2013 4247-4255*
- The Impact of Rank Attack on Network Topology of Routing Protocol for Low-Power and Lossy Networks. *Le, A.*, +, *JSEN Oct. 2013 3685-3692*
- Towards the Implementation of IoT for Environmental Condition Monitoring in Homes. *Kelly, S. D. T.*, +, *JSEN Oct. 2013 3846-3853*
- Tradeoff Between Throughput and Energy Consumption in Multirate Wireless Sensor Networks. *Xie, D.*, +, *JSEN Oct. 2013 3667-3676*
- Wireless Machine-to-Machine Healthcare Solution Using Android Mobile Devices in Global Networks. *Jung, S.-J.*, +, *JSEN May 2013 1419-1424*
- Wireless Sensor Networks and the Internet of Things: Optimal Estimation With Nonuniform Quantization and Bandwidth Allocation. *Zhou, Y.*, +, *JSEN Oct. 2013 3568-3574*
- Wireless Surface Electromyography Probes With Four High-Speed Channels. *Imperatori, G.*, +, *JSEN Aug. 2013 2954-2961*
- Wireless Temperature Sensor for Condition Monitoring of Bearings Operating Through Thick Metal Plates. *Gupta, L. A.*, +, *JSEN June 2013 2292-2298*
- Wires**
- Bendable Ultra-Thin Chips on Flexible Foils. *Dahiya, R. S.*, +, *JSEN Oct. 2013 4030-4037*
- Wires (electric)**
- Advanced Forward Methods for Complex Wire Fault Modeling. *Lundquist, E. J.*, +, *JSEN April 2013 1172-1179*
- Sensor for Thermal Gas Analysis Based on Micromachined Silicon-Microwires. *Kliche, K.*, +, *JSEN July 2013 2626-2635*
- Wood processing**
- Microwave Nondestructive Testing of Wood Anisotropy and Scatter. *Bogovanovic, M.*, +, *JSEN Jan. 2013 306-313*
- X**
- X-ray diffraction**
- NH₃ Sensing by p -ZnO Thin Films. *Balakrishnan, L. N.*, +, *JSEN June 2013 2055-2060*
- WO₃ Hydrogen Resistive Gas Sensor and Its Wide-Range Current-Mode Electronic Read-Out Circuit. *De Marcellis, A.*, +, *JSEN July 2013 2792-2798*
- Characteristics of Flexible Thin-Film Transistors With ZnO Channels. *Ji, L.-W.*, +, *JSEN Dec. 2013 4940-4943*
- Different Scale Confinements of PVDF-TrFE as Functional Material of Piezoelectric Devices. *Canavesi, G.*, +, *JSEN June 2013 2237-2244*
- Epitaxial Single and Double Nanolayers of SnO₂ and TiO₂ for Resistive Gas Sensors. *Rosental, A.*, +, *JSEN May 2013 1648-1655*
- High Dynamic Range Methanol Sensor Based on Aligned ZnO Nanorods. *Banerjee, N.*, +, *JSEN May 2013 1669-1676*
- Selective Capacitive Sensor for Ammonia Hydroxide at Room Temperature. *Das, A.*, +, *JSEN July 2013 2757-2762*
- Study on a Metal-Insulator-Silicon Hydrogen Sensor With LaTiON as Gate Insulator. *Yu, J.*, +, *JSEN May 2013 1534-1540*
- X-ray imaging**
- Characterization of Low Dark-Current Lateral Amorphous-Selenium Metal-Semiconductor-Metal Photodetectors. *Abbaszadeh, S.*, +, *JSEN May 2013 1452-1458*
- X-ray photoelectron spectra**
- High Polarization and Low-Repulsion HfO₂ Thin Film for Alkali Metal Ion Detections by Plasma System With a Complementary Filter. *Huang, C.-H.*, +, *JSEN June 2013 2459-2465*
- X-ray spectroscopy**
- Metal-Silver Based Electrodes as Sensitive Surfaces for Electrochemical Detection of Thio-Heterocycles. *Lai-Hao, W.*, +, *JSEN Sept. 2013 3442-3448*
- Y**
- Young's modulus**
- Effects of Polymer Coatings on Temperature Sensitivity of Brillouin Frequency Shift Within Double-Coated Fibers. *Gu, H.*, +, *JSEN Feb. 2013 864-869*
- Soft Fiber Optic Sensors for Precision Measurement of Shear Stress and Pressure. *Zhang, Z. F.*, +, *JSEN May 2013 1478-1482*
- Ytterbium**
- Interferometric Interrogation of the Inclination and Displacement of Tapered Fiber Mach-Zehnder Interferometers. *Chen, N.-K.*, +, *JSEN Sept. 2013 3437-3441*

Yttrium alloys

Characteristics of an Optical Fiber Hydrogen Gas Sensor Based on a Palladium and Yttrium Alloy Thin Film. *Liu, Y.*, +, *JSEN July 2013 2699-2704*

Z**Zigbee**

A Cross-Layer Judgment Scheme for Solving Retransmission Problem in IEEE 802.15.4-Based Wireless Body Sensor Networks. *Tseng, H.-W.*, +, *JSEN Aug. 2013 3124-3135*

An Experimental Study for Inter-User Interference Mitigation in Wireless Body Sensor Networks. *Cao, B.*, +, *JSEN Oct. 2013 3585-3595*

Cross-Layer Solutions for Extended-Range Wireless Sensor Networks. *Lin, C.-K.*, +, *JSEN March 2013 1044-1054*

Modeling Latency and Reliability of Hybrid Technology Networking. *Shrestha, P. L.*, +, *JSEN Oct. 2013 3616-3624*

On Optimal Scheduling in Duty-Cycled Industrial IoT Applications Using IEEE802.15.4e TSCH. *Palatella, M. R.*, +, *JSEN Oct. 2013 3655-3666*

Optimized Beaconless Geo-Routing for Smart Utility Networks. *Bader, A.*, +, *JSEN Dec. 2013 4587-4588*

Towards the Implementation of IoT for Environmental Condition Monitoring in Homes. *Kelly, S. D. T.*, +, *JSEN Oct. 2013 3846-3853*

Zinc

Corrosion Energy: A Novel Source to Power the Wireless Sensor. *Qiao, G.*, +, *JSEN April 2013 1141-1142*

Zinc alloys

Metal-Silver Based Electrodes as Sensitive Surfaces for Electrochemical Detection of Thio-Heterocycles. *Lai-Hao, W.*, +, *JSEN Sept. 2013 3442-3448*

Zinc compounds

NH₃ Sensing by p-ZnO Thin Films. *Balakrishnan, L. N.*, +, *JSEN June 2013 2055-2060*

Characteristics of Flexible Thin-Film Transistors With ZnO Channels. *Ji, L.-W.*, +, *JSEN Dec. 2013 4940-4943*

Constructing a Novel Asymmetric Dielectric Structure Toward the Realization of High-Performance Surface Plasmon Resonance Biosensors. *Chiu, N.-F.*, +, *JSEN Sept. 2013 3483-3489*

Detecting Mechanoluminescence From ZnS:Mn Powder Using a High Speed Camera. *Kobakhidze, L.*, +, *JSEN Aug. 2013 3053-3059*

Development of a Reusable Atomic Oxygen Sensor Using Zinc Oxide Thick Films. *Valer, J. C.*, +, *JSEN Aug. 2013 3046-3052*

High Dynamic Range Methanol Sensor Based on Aligned ZnO Nanorods. *Banerjee, N.*, +, *JSEN May 2013 1669-1676*

Influence of Substrate Temperature on H₂S Gas Sensing Properties of Nanocrystalline Zinc Oxide Thin Films Prepared by Advanced Spray Pyrolysis. *Shewale, P. S.*, +, *JSEN May 2013 1992-1998*

Integration of Thin Film Strain Sensors Into Hard Drives for Active Feedback Vibration Suppression. *Felix, S.*, +, *JSEN May 2013 1708-1715*

Low-Frequency Noise Characteristics of ZnO Nanorods Schottky Barrier Photodetectors. *Chen, T.-P.*, +, *JSEN June 2013 2115-2119*

Packageless AlN/ZnO/Si Structure for SAW Devices Applications. *Legrani, O.*, +, *JSEN Feb. 2013 487-491*

ZnO-Cellulose Composite for UV Sensing. *Gimenez, A. J.*, +, *JSEN April 2013 1301-1306*

Zoology

Fish Heart Rate Monitoring by Body-Contact Doppler Radar. *Hafner, N.*, +, *JSEN Jan. 2013 408-414*

Miscellaneous**1/f noise**

Improved Chemical Detection and Ultra-Fast Recovery Using Oxygen Functionalized Epitaxial Graphene Sensors. *Nagareddy, V. K.*, +, *JSEN Aug. 2013 2810-2817*

Pulse Detection by Gated Synchronous Demodulation. *Efthymiou, S.*, +, *JSEN Sept. 2013 3349-3360*

Very Low 1/f Noise and Radiation-Hardened CMOS Preamplifier for High-Sensitivity Search Coil Magnetometers. *Rhouni, A.*, +, *JSEN Jan. 2013 159-166*

3G mobile communication

When 3G Meets VANET: 3G-Assisted Data Delivery in VANETs. *Zhao, Q.*, +, *JSEN Oct. 2013 3575-3584*

II-VI semiconductors

NH₃ Sensing by p-ZnO Thin Films. *Balakrishnan, L. N.*, +, *JSEN June 2013 2055-2060*

Constructing a Novel Asymmetric Dielectric Structure Toward the Realization of High-Performance Surface Plasmon Resonance Biosensors. *Chiu, N.-F.*, +, *JSEN Sept. 2013 3483-3489*

Detecting Mechanoluminescence From ZnS:Mn Powder Using a High Speed Camera. *Kobakhidze, L.*, +, *JSEN Aug. 2013 3053-3059*

High Dynamic Range Methanol Sensor Based on Aligned ZnO Nanorods. *Banerjee, N.*, +, *JSEN May 2013 1669-1676*

Integration of Thin Film Strain Sensors Into Hard Drives for Active Feedback Vibration Suppression. *Felix, S.*, +, *JSEN May 2013 1708-1715*

Low-Frequency Noise Characteristics of ZnO Nanorods Schottky Barrier Photodetectors. *Chen, T.-P.*, +, *JSEN June 2013 2115-2119*

Packageless AlN/ZnO/Si Structure for SAW Devices Applications. *Legrani, O.*, +, *JSEN Feb. 2013 487-491*

ZnO-Cellulose Composite for UV Sensing. *Gimenez, A. J.*, +, *JSEN April 2013 1301-1306*

III-V semiconductors

Ga₂O₃/AlGaIn/GaN Heterostructure Ultraviolet Three-Band Photodetector. *Huang, Z.-D.*, +, *JSEN Sept. 2013 3462-3467*

NO₂ Detection With AlGaIn/GaN 2DEG Channels for Air Quality Monitoring. *Offermans, P.*, +, *JSEN Aug. 2013 2823-2827*

A Wireless-Transfer-Based Hydrogen Gas Sensing System With a Pd/AlGaIn/GaN Heterostructure Field-Effect Transistor (HFET). *Hsu, C.-S.*, +, *JSEN June 2013 2299-2304*

Continuous Wave Spectroscopic Terahertz Imaging With InGaAs Bow-Tie Diodes at Room Temperature. *Kasalynas, I.*, +, *JSEN Jan. 2013 50-54*

Detection of Transplant Rejection Chemokine Protein Biomarker in Physiological Salt Concentration. *Tulip, F. S.*, +, *JSEN Feb. 2013 438-439*

GaN-Based S₀-Wave Sensors on Silicon for Chemical and Biological Sensing in Liquid Environments. *Lu, X.*, +, *JSEN April 2013 1245-1251*

Highly Sensitive Lateral Field Excited Piezoelectric Film Acoustic Enzyme Biosensor. *Chen, D.*, +, *JSEN June 2013 2217-2222*

Hydrogen-Sensing Properties of a Pd/AlGaIn/GaN-Based Field-Effect Transistor Under a Nitrogen Ambience. *Hsu, C.-S.*, +, *JSEN May 2013 1787-1793*

InGaIn/GaN Multi-quantum-Well Metal-Semiconductor-Metal Photodetectors With Beta-Ga₂O₃ Cap Layers. *Huang, Z.-D.*, +, *JSEN April 2013 1187-1191*

InP- and GaAs-Based Plasmonic High-Electron-Mobility Transistors for Room-Temperature Ultrahigh-Sensitive Terahertz Sensing and Imaging. *Watanabe, T.*, +, *JSEN Jan. 2013 89-99*

Long Wavelength Low Temperature Grown GaAs and InP-Based Terahertz Photoconductors Devices. *Missous, M.*, +, *JSEN Jan. 2013 63-71*

Nitro-Aromatic Explosive Sensing Using GaN Nanowire-Titanium Nanocluster Hybrids. *Aluri, G. S.*, +, *JSEN May 2013 1883-1888*

Phase-Sensitive Terahertz Self-Heterodyne System Based on Photodiode and Low-Temperature-Grown GaAs Photoconductor at 1.55 μm. *Hisatake, S.*, +, *JSEN Jan. 2013 31-36*

THz Hot-Electron Micro-Bolometer Based on Low-Mobility 2-DEG in GaN Heterostructure. *Choi, J. K.*, +, *JSEN Jan. 2013 80-88*