

2015 Index

IEEE Transactions on Geoscience and Remote Sensing

Vol. 53

This index covers all technical items — papers, correspondence, reviews, etc. — that appeared in this periodical during 2015, and items from previous years that were commented upon or corrected in 2015. 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.

AUTHOR INDEX

A

- Abdelazim, S.**, Santoro, D., Arend, M.F., Moshary, F., and Ahmed, S., Development and Operational Analysis of an All-Fiber Coherent Doppler Lidar System for Wind Sensing and Aerosol Profiling; *TGRS Dec. 2015 6495-6506*
- Abdullah, S.M.U.**, Rehman, N.u., Khan, M.M., and Mandic, D.P., A Multivariate Empirical Mode Decomposition-Based Approach to Pansharpening; *TGRS July 2015 3974-3984*
- Achard, V.**, see Cubero-Castan, M., *TGRS April 2015 1894-1906*
- Adams, J.R.**, see McNairn, H., *TGRS May 2015 2784-2801*
- Adane, A.E.H.**, see Tahanout, M., *TGRS Oct. 2015 5572-5582*
- Affinito, A.**, see Catapano, I., *TGRS Oct. 2015 5624-5633*
- Agathos, A.**, see Li, J., *TGRS Sept. 2015 5067-5082*
- Aguili, T.**, see Yahia, M., *TGRS Sept. 2015 5237-5246*
- Ahmad, F.**, Qian, J., and Amin, M.G., Wall Clutter Mitigation Using Discrete Prolate Spheroidal Sequences for Sparse Reconstruction of Indoor Stationary Scenes; *TGRS March 2015 1549-1557*
- Ahmed, S.**, see Abdelazim, S., *TGRS Dec. 2015 6495-6506*
- Ahn, J.**, see Kim, W., *TGRS Oct. 2015 5458-5472*
- Aiazzi, B.**, see Carla, R., *TGRS Dec. 2015 6344-6355*
- Ainsworth, T.L.**, see Lee, J., *TGRS March 2015 1150-1160*
- Aires, F.**, see Prigent, C., *TGRS March 2015 1364-1373*
- Aires, F.**, see Rodriguez-Fernandez, N.J., *TGRS Nov. 2015 5991-6007*
- Aittomaki, T.**, see Alku, L., *TGRS July 2015 3628-3638*
- Akar, G.B.**, see Ozsarac, S., *TGRS Sept. 2015 4899-4909*
- Akbar, R.**, and Moghaddam, M., A Combined Active–Passive Soil Moisture Estimation Algorithm With Adaptive Regularization in Support of SMAP; *TGRS June 2015 3312-3324*
- Akhtar, N.**, Shafait, F., and Mian, A., Futuristic Greedy Approach to Sparse Unmixing of Hyperspectral Data; *TGRS April 2015 2157-2174*
- Aksoy, M.**, see Jezek, K.C., *TGRS Jan. 2015 134-143*
- Al Bitar, A.**, see Verhoest, N.E.C., *TGRS June 2015 3507-3521*
- Al-Qadi, I.L.**, see Shangguan, P., *TGRS March 2015 1538-1548*
- Alajlan, N.**, see Moranduzzo, T., *TGRS Dec. 2015 6394-6406*
- Albregtsen, F.**, see Landmark, K., *TGRS Nov. 2015 6252-6273*
- Alku, L.**, Moiseev, D., Aittomaki, T., and Chandrasekar, V., Identification and Suppression of Nonmeteorological Echoes Using Spectral Polarimetric Processing; *TGRS July 2015 3628-3638*
- Alli, G.**, see Catapano, I., *TGRS Oct. 2015 5624-5633*
- Almeida, L.B.**, see Simoes, M., *TGRS June 2015 3373-3388*
- Alonso-Arroyo, A.**, Camps, A., Park, H., Pascual, D., Onrubia, R., and Martin, F., Retrieval of Significant Wave Height and Mean Sea Surface Level Using the GNSS-R Interference Pattern Technique: Results From a Three-Month Field Campaign; *TGRS June 2015 3198-3209*
- Alparone, L.**, see Vivone, G., *TGRS May 2015 2565-2586*
- Alshawaf, F.**, Fuhrmann, T., Knopfler, A., Luo, X., Mayer, M., Hinz, S., and Heck, B., Accurate Estimation of Atmospheric Water Vapor Using GNSS Observations and Surface Meteorological Data; *TGRS July 2015 3764-3771*
- Alvarez-Perez, J.L.**, A Multidimensional Extension of the Concept of Coherence in Polarimetric SAR Interferometry; *TGRS March 2015 1257-1270*
- Ambikapathi, A.**, see Lin, C., *TGRS Oct. 2015 5530-5546*
- Amin, M.G.**, see Tivive, F.H.C., *TGRS April 2015 2108-2122*
- Amin, M.G.**, see Ahmad, F., *TGRS March 2015 1549-1557*
- Amin, M.G.**, see Gennarelli, G., *TGRS Dec. 2015 6482-6494*
- Amitrano, D.**, Di Martino, G., Iodice, A., Riccio, D., and Ruello, G., A New Framework for SAR Multitemporal Data RGB Representation: Rationale and Products; *TGRS Jan. 2015 117-133*
- Ampe, E.M.**, Raymaekers, D., Hestir, E.L., Jansen, M., Knaeps, E., and Bate-laan, O., A Wavelet-Enhanced Inversion Method for Water Quality Retrieval From High Spectral Resolution Data for Complex Waters; *TGRS Feb. 2015 869-882*
- An, J.**, Huang, W., and Gill, E.W., A Self-Adaptive Wavelet-Based Algorithm for Wave Measurement Using Nautical Radar; *TGRS Jan. 2015 567-577*
- An, L.**, see Jia, L., *TGRS July 2015 3960-3973*
- Andre, F.**, Jonard, M., and Lambot, S., Non-Invasive Forest Litter Characterization Using Full-Wave Inversion of Microwave Radar Data; *TGRS Feb. 2015 828-840*
- Angelliaume, S.**, see Fiche, A., *TGRS Aug. 2015 4650-4660*
- Anghel, A.**, Vasile, G., Cacoveanu, R., Ioana, C., Ciochina, S., and Ovarlez, J., Scattering Centers Detection and Tracking in Refocused Spaceborne SAR Images for Infrastructure Monitoring; *TGRS Aug. 2015 4379-4393*
- Anterrieu, E.**, see Khazaal, A., *TGRS Sept. 2015 4961-4971*
- Antoniou, M.**, see Zhang, Q., *TGRS Jan. 2015 219-228*
- Ao, C.O.**, see Cardellach, E., *TGRS Jan. 2015 190-206*
- Ao, D.**, see Zeng, T., *TGRS Oct. 2015 5760-5773*
- Arce, A.**, see Guccione, P., *TGRS July 2015 3615-3627*
- Arce, G.R.**, see Ramirez, A., *TGRS Jan. 2015 405-415*
- Arend, M.F.**, see Abdelazim, S., *TGRS Dec. 2015 6495-6506*
- Arkin, P.**, see Moradi, I., *TGRS Dec. 2015 6675-6688*
- Arnaud, L.**, see Leduc-Leballeur, M., *TGRS July 2015 4022-4032*
- Astrup, R.**, see Solberg, S., *TGRS March 2015 1607-1614*
- Atif, I.**, see Mahboob, M.A., *TGRS Nov. 2015 5824-5834*
- Atkinson, P.M.**, see Wang, Q., *TGRS April 2015 1692-1706*
- Atkinson, P.M.**, see Wang, Q., *TGRS Jan. 2015 309-323*
- Atwood, D.K.**, Gunn, G.E., Roussi, C., Wu, J., Duguay, C., and Sarabandi, K., Microwave Backscatter From Arctic Lake Ice and Polarimetric Implications; *TGRS Nov. 2015 5972-5982*
- Aubry, P.J.**, see Sakamoto, T., *TGRS Jan. 2015 352-361*
- Auer, S.**, Gisinger, C., and Tao, J., Characterization of Facade Regularities in High-Resolution SAR Images; *TGRS May 2015 2727-2737*
- Auli-Llinas, F.**, see Blanes, I., *TGRS June 2015 3361-3372*
- Austeng, A.**, see Landmark, K., *TGRS Nov. 2015 6252-6273*
- Avey, L.**, see Doelling, D.R., *TGRS March 2015 1513-1526*
- Ayala, R.**, see Espinola, M., *TGRS Feb. 2015 795-809*
- Azarderakhsh, M.**, see Du, J., *TGRS Jan. 2015 542-556*

B

- Bakula, M.**, Przystrzelski, P., and Kazmierczak, R., Reliable Technology of Centimeter GPS/GLONASS Surveying in Forest Environments; *TGRS Feb. 2015 1029-1038*
- Ball, C.P.**, Marks, A.A., Green, P.D., MacArthur, A., Maturilli, M., Fox, N.P., and King, M.D., Hemispherical-Directional Reflectance (HDRF) of Wind-blown Snow-Covered Arctic Tundra at Large Solar Zenith Angles; *TGRS Oct. 2015 5377-5387*
- Balls, U.**, see Gisinger, C., *TGRS April 2015 1782-1802*
- Baltazard, V.**, see Bourlier, C., *TGRS July 2015 4104-4115*
- Ban, W.**, see Yu, K., *TGRS Sept. 2015 5100-5109*
- Banerjee, B.**, Bovolo, F., Bhattacharya, A., Bruzzone, L., Chaudhuri, S., and Buddhiraju, K.M., A Novel Graph-Matching-Based Approach for Domain Adaptation in Classification of Remote Sensing Image Pair; *TGRS July 2015 4045-4062*
- Bao, L.**, see Yang, L., *TGRS Feb. 2015 784-794*
- Bao, Z.**, see Xu, G., *TGRS April 2015 2123-2136*

- Bao, Z.**, see Liu, B., *TGRS Feb. 2015 810-827*
- Bao, Z.**, see Zhang, S., *TGRS Feb. 2015 687-709*
- Bao, Z.**, see Liu, H., *TGRS Jan. 2015 494-504*
- Barber, D.G.**, see Landy, J.C., *TGRS March 2015 1271-1286*
- Barber, D.G.**, see Komarov, A.S., *TGRS July 2015 4063-4078*
- Barber, D.G.**, see Landy, J.C., *TGRS Sept. 2015 4887-4898*
- Barbin, Y.**, see Orfila, A., *TGRS May 2015 2875-2886*
- Barducci, A.**, Guzzi, D., Lastrì, C., Marcoianni, P., Nardino, V., and Pippi, I., Emissivity and Temperature Assessment Using a Maximum Entropy Estimator: Structure and Performance of the MaxEntES Algorithm; *TGRS Feb. 2015 738-751*
- Barnes, B.B.**, and Hu, C., Cross-Sensor Continuity of Satellite-Derived Water Clarity in the Gulf of Mexico: Insights Into Temporal Aliasing and Implications for Long-Term Water Clarity Assessment; *TGRS April 2015 1761-1772*
- Barnes, W.**, see Xiong, X., *TGRS Oct. 2015 5709-5721*
- Baronti, S.**, see Carla, R., *TGRS Dec. 2015 6344-6355*
- Barzegar-Parizi, S.**, and Shishegar, A.A., Electromagnetic Wave Scattering Analysis From 2-D Periodic Rough Surfaces Using Complex Images Technique; *TGRS Feb. 2015 862-868*
- Basara, J.B.**, see Shen, X., *TGRS July 2015 4079-4090*
- Baskaradas, J.A.**, see Urbini, S., *TGRS March 2015 1558-1564*
- Basu, S.**, Ganguly, S., Nemani, R.R., Mukhopadhyay, S., Zhang, G., Milesi, C., Michaelis, A., Votava, P., Dubayah, R., Duncanson, L., Cook, B., Yu, Y., Saatchi, S., DiBianco, R., Karki, M., Boyda, E., Kumar, U., and Li, S., A Semiautomated Probabilistic Framework for Tree-Cover Delineation From 1-m NAIP Imagery Using a High-Performance Computing Architecture; *TGRS Oct. 2015 5690-5708*
- Batelaan, O.**, see Ampe, E.M., *TGRS Feb. 2015 869-882*
- Batani, S.M.**, Margulis, S.A., Podest, E., and McDonald, K.C., Characterizing Snowpack and the Freeze-Thaw State of Underlying Soil via Assimilation of Multifrequency Passive/Active Microwave Data: A Case Study (NASA CLPX 2003); *TGRS Jan. 2015 173-189*
- Battaglia, A.**, and Kollias, P., Using Ice Clouds for Mitigating the EarthCARE Doppler Radar Mispointing; *TGRS April 2015 2079-2085*
- Battaglia, A.**, and Kollias, P., Impact of Receiver Saturation on Surface Doppler Velocity Measurements from the EarthCARE Cloud Profiling Radar; *TGRS March 2015 1205-1212*
- Baumgartner, A.**, see Lenhard, K., *TGRS April 2015 1828-1841*
- Baumgartner, A.**, see Lenhard, K., *TGRS Nov. 2015 6085-6098*
- Bazi, Y.**, see Moranduzzo, T., *TGRS Dec. 2015 6394-6406*
- Beauchamp, R.M.**, and Chandrasekar, V., Real-Time Noise Estimation and Correction in Dual-Polarization Radar Systems; *TGRS Nov. 2015 6183-6195*
- Beer, N.R.**, see Paglieroni, D.W., *TGRS May 2015 2426-2439*
- Behrangi, A.**, see Chen, S., *TGRS Aug. 2015 4434-4443*
- Beitsch, A.**, Kern, S., and Kaleschke, L., Comparison of SSM/I and AMSR-E Sea Ice Concentrations With ASPeCt Ship Observations Around Antarctica; *TGRS April 2015 1985-1996*
- Belair, S.**, see McNairn, H., *TGRS May 2015 2784-2801*
- Bellomo, L.**, see Orfila, A., *TGRS May 2015 2875-2886*
- Belotti, M.**, see Guccione, P., *TGRS Dec. 2015 6804-6812*
- Benedek, C.**, see Borcs, A., *TGRS March 2015 1475-1489*
- Benediktsson, J.A.**, see Kang, X., *TGRS April 2015 2241-2253*
- Benediktsson, J.A.**, see Li, J., *TGRS March 2015 1592-1606*
- Benediktsson, J.A.**, see Fang, L., *TGRS Aug. 2015 4186-4201*
- Benediktsson, J.A.**, see Palsson, F., *TGRS May 2015 2652-2663*
- Benediktsson, J.A.**, see Ghamisi, P., *TGRS May 2015 2335-2353*
- Benediktsson, J.A.**, see Ghamisi, P., *TGRS May 2015 2935-2947*
- Benediktsson, J.A.**, see Kang, X., *TGRS Jan. 2015 144-153*
- Benediktsson, J.A.**, see Gu, Y., *TGRS Oct. 2015 5312-5326*
- Benediktsson, J.A.**, see Falco, N., *TGRS Nov. 2015 6223-6240*
- Benediktsson, J.A.**, see Fang, L., *TGRS Dec. 2015 6663-6674*
- Benveniste, J.**, see Ray, C., *TGRS Feb. 2015 911-919*
- Beran, L.**, see Song, L., *TGRS Feb. 2015 1061-1072*
- Berardino, P.**, see Perna, S., *TGRS May 2015 2713-2726*
- Berg, A.**, Dammert, P., and Eriksson, L.E.B., X-Band Interferometric SAR Observations of Baltic Fast Ice; *TGRS March 2015 1248-1256*
- Berg, A.**, see McNairn, H., *TGRS May 2015 2784-2801*
- Berretta, D.P.**, see Dutta, D., *TGRS Sept. 2015 5133-5147*
- Besic, N.**, Vasile, G., Chanusot, J., and Stankovic, S., Polarimetric Incoherent Target Decomposition by Means of Independent Component Analysis; *TGRS March 2015 1236-1247*
- Bhatt, R.**, see Doelling, D.R., *TGRS March 2015 1513-1526*
- Bhatt, R.**, see Doelling, D.R., *TGRS Aug. 2015 4520-4535*
- Bhattacharya, A.**, see Banerjee, B., *TGRS July 2015 4045-4062*
- Bhimala, K.R.**, and Goswami, P., A Comparison of ASCAT Soil Moisture Data With *In Situ* Observations Over the Indian Region: A Multiscale Analysis; *TGRS Oct. 2015 5425-5434*
- Bi, G.**, see Yang, L., *TGRS Nov. 2015 5958-5971*
- Biancheri-Astier, M.**, Ciarletti, V., Reineix, A., and Le Gall, A., Optimization of the Antennas of the EISS Radar Designed to Perform Deep Martian Sub-surface Sounding; *TGRS Aug. 2015 4627-4637*
- Billings, S.D.**, see Song, L., *TGRS Feb. 2015 1061-1072*
- Bioucas-Dias, J.**, see Simoes, M., *TGRS June 2015 3373-3388*
- Bioucas-Dias, J.**, see Wei, Q., *TGRS July 2015 3658-3668*
- Bioucas-Dias, J.M.**, see Vivone, G., *TGRS April 2015 1997-2010*
- Bioucas-Dias, J.M.**, see Hongxing, H., *TGRS May 2015 2587-2602*
- Bioucas-Dias, J.M.**, see Martin, G., *TGRS May 2015 2819-2831*
- Bioucas-Dias, J.M.**, see Li, J., *TGRS Sept. 2015 5067-5082*
- Bioucas-Dias, J.M.B.**, see Li, J., *TGRS March 2015 1592-1606*
- Bircher, S.**, see Mialon, A., *TGRS June 2015 3084-3094*
- Bitar, A.A.**, see Mialon, A., *TGRS June 2015 3084-3094*
- Blacksberg, J.**, see Cochrane, C.J., *TGRS Aug. 2015 4259-4274*
- Blanes, I.**, Hernandez-Cabronero, M., Auli-Llinas, F., Serra-Sagrìsta, J., and Marcellin, M.W., Isorange Pairwise Orthogonal Transform; *TGRS June 2015 3361-3372*
- Bo, Y.**, see Zhu, Y., *TGRS Sept. 2015 5021-5035*
- Bobrov, P.P.**, Repin, A.V., and Rodionova, O.V., Wideband Frequency Domain Method of Soil Dielectric Property Measurements; *TGRS May 2015 2366-2372*
- Bohrmann, G.**, see Suresh, G., *TGRS Aug. 2015 4218-4230*
- Boisot, O.**, Nougier, F., Chapron, B., and Guerin, C., The GO4 Model in Near-Nadir Microwave Scattering From the Sea Surface; *TGRS Nov. 2015 5889-5900*
- Bolton, J.**, see Yuksel, S.E., *TGRS Dec. 2015 6766-6775*
- Bonadonna, C.**, see Mereu, L., *TGRS Oct. 2015 5644-5660*
- Bongiovanni, T.**, see Chakrabarti, S., *TGRS Jan. 2015 85-101*
- Borcs, A.**, and Benedek, C., Extraction of Vehicle Groups in Airborne Lidar Point Clouds With Two-Level Point Processes; *TGRS March 2015 1475-1489*
- Boucher, R.H.**, see Hall, J.L., *TGRS Oct. 2015 5447-5457*
- Bourlier, C.**, Le Bastard, C., and Baltazard, V., Generalization of PILE Method to the EM Scattering From Stratified Subsurface With Rough Interlayers: Application to the Detection of Debondings Within Pavement Structure; *TGRS July 2015 4104-4115*
- Bouzerdoum, A.**, see Tivive, F.H.C., *TGRS April 2015 2108-2122*
- Bovolo, F.**, see Liu, S., *TGRS Aug. 2015 4363-4378*
- Bovolo, F.**, see Marin, C., *TGRS May 2015 2664-2682*
- Bovolo, F.**, see Liu, S., *TGRS Jan. 2015 244-260*
- Bovolo, F.**, see Zanotta, D.C., *TGRS July 2015 3707-3719*
- Bovolo, F.**, see Banerjee, B., *TGRS July 2015 4045-4062*
- Bovolo, F.**, see Han, Y., *TGRS Dec. 2015 6650-6662*
- Boy, F.**, see Halimi, A., *TGRS Feb. 2015 598-608*
- Boyda, E.**, see Basu, S., *TGRS Oct. 2015 5690-5708*
- Braca, P.**, see Vivone, G., *TGRS July 2015 3931-3949*
- Braca, P.**, see Granstrom, K., *TGRS Dec. 2015 6617-6631*
- Braca, P.**, see Gennarelli, G., *TGRS Dec. 2015 6482-6494*
- Bradford, J.B.**, see Junttila, V., *TGRS Oct. 2015 5600-5612*
- Bras, R.L.**, see Ebtehaj, A.M., *TGRS July 2015 3720-3736*
- Brautigam, B.**, see Martone, M., *TGRS Feb. 2015 583-597*
- Brekke, C.**, see Skrunes, S., *TGRS April 2015 1958-1975*
- Brekke, C.**, see Kramer, T., *TGRS Dec. 2015 6407-6418*
- Brentjens, M.**, see McKay-Bukowski, D., *TGRS March 2015 1440-1451*
- Breon, F.**, Vermote, E., Murphy, E.F., and Franch, B., Measuring the Directional Variations of Land Surface Reflectance From MODIS; *TGRS Aug. 2015 4638-4649*
- Bretar, F.**, see Ferraz, A., *TGRS Dec. 2015 6776-6790*
- Breunig, M.**, see Geiss, C., *TGRS Aug. 2015 4348-4362*
- Briottet, X.**, see Cubero-Castan, M., *TGRS April 2015 1894-1906*
- Broquetas, A.**, see Makhoul, E., *TGRS May 2015 2496-2509*
- Bruzzone, L.**, see Ilisei, A., *TGRS June 2015 3260-3277*
- Bruzzone, L.**, see Liu, S., *TGRS Aug. 2015 4363-4378*
- Bruzzone, L.**, see Marin, C., *TGRS May 2015 2664-2682*
- Bruzzone, L.**, see Demir, B., *TGRS May 2015 2323-2334*
- Bruzzone, L.**, see Liu, S., *TGRS Jan. 2015 244-260*
- Bruzzone, L.**, see Paris, C., *TGRS Jan. 2015 467-480*
- Bruzzone, L.**, see Zanotta, D.C., *TGRS July 2015 3707-3719*

- Bruzzone, L.**, see Matasci, G., *TGRS July 2015 3550-3564*
Bruzzone, L., see Banerjee, B., *TGRS July 2015 4045-4062*
Bruzzone, L., see Patra, S., *TGRS Oct. 2015 5495-5503*
Bruzzone, L., see Falco, N., *TGRS Nov. 2015 6223-6240*
Bruzzone, L., see Han, Y., *TGRS Dec. 2015 6650-6662*
Bu, S., see Cheng, G., *TGRS Aug. 2015 4238-4249*
Buckland, K.N., see Hall, J.L., *TGRS Oct. 2015 5447-5457*
Buddhiraju, K.M., see Banerjee, B., *TGRS July 2015 4045-4062*
Budillon, A., and Schirinzi, G., Performance Evaluation of a GLRT Moving Target Detector for TerraSAR-X Along-Track Interferometric Data; *TGRS June 2015 3350-3360*
Bue, B.D., Thompson, D.R., Eastwood, M., Green, R.O., Gao, B., Keymeulen, D., Sarture, C.M., Mazer, A.S., and Luong, H.H., Real-Time Atmospheric Correction of AVIRIS-NG Imagery; *TGRS Dec. 2015 6419-6428*
Bullock, P., see McNairn, H., *TGRS May 2015 2784-2801*
Burgin, M., see Tabatabaenejad, A., *TGRS Feb. 2015 645-658*
Bush, K.A., see Smith, G.L., *TGRS March 2015 1656-1665*
Butler, J., see Oudrari, H., *TGRS April 2015 2195-2210*
Butler, J.J., see Wu, A., *TGRS Sept. 2015 4741-4751*
- C**
- Cabot, F.**, see Khazaal, A., *TGRS Sept. 2015 4961-4971*
Cabot, F., see Rodriguez-Fernandez, N.J., *TGRS Nov. 2015 5991-6007*
Cacoveanu, R., see Anghel, A., *TGRS Aug. 2015 4379-4393*
Cafarella, L., see Urbini, S., *TGRS March 2015 1558-1564*
Cai, W., see Cheng, L., *TGRS June 2015 3235-3249*
Cai, X., see Lee, J., *TGRS Nov. 2015 6073-6084*
Callico, G.M., see Marrero, R., *TGRS July 2015 3772-3790*
Camps, A., see Alonso-Arroyo, A., *TGRS June 2015 3198-3209*
Cao, Q., see Chen, S., *TGRS Aug. 2015 4444-4456*
Cao, S., Zheng, Y.F., and Ewing, R.L., A Wavelet-Packet-Based Radar Waveform for High Resolution in Range and Velocity Detection; *TGRS Jan. 2015 229-243*
Cao, X., see Wang, J., *TGRS Sept. 2015 4910-4921*
Carabajal, C.C., see Leigh, H.W., *TGRS April 2015 2011-2020*
Cardellach, E., Tomas, S., Oliveras, S., Padullas, R., Rius, A., de la Torre-Juarez, M., Turk, F.J., Ao, C.O., Kursinski, E.R., Schreiner, B., Ector, D., and Cucurull, L., Sensitivity of PAZ LEO Polarimetric GNSS Radio-Occlusion Experiment to Precipitation Events; *TGRS Jan. 2015 190-206*
Carla, R., Santurri, L., Aiuzzi, B., and Baronti, S., Full-Scale Assessment of Pansharpening Through Polynomial Fitting of Multiscale Measurements; *TGRS Dec. 2015 6344-6355*
Carotenuto, V., De Maio, A., Clemente, C., and Soraghan, J., Invariant Rules for Multipolarization SAR Change Detection; *TGRS June 2015 3294-3311*
Carr, N., see Chen, S., *TGRS Aug. 2015 4444-4456*
Caruso, M.J., see Romeiser, R., *TGRS March 2015 1320-1345*
Caruso, M.J., see Horstmann, J., *TGRS May 2015 2887-2898*
Castorena, J., and Creusere, C.D., Sampling of Time-Resolved Full-Waveform LIDAR Signals at Sub-Nyquist Rates; *TGRS July 2015 3791-3802*
Catalao, J., see Mateus, P., *TGRS Dec. 2015 6710-6717*
Catapano, I., Affinito, A., Del Moro, A., Alli, G., and Soldovieri, F., Forward-Looking Ground-Penetrating Radar via a Linear Inverse Scattering Approach; *TGRS Oct. 2015 5624-5633*
Ceba, F., see Makhoul, E., *TGRS May 2015 2496-2509*
Cecchi, G., see Matteoli, S., *TGRS Jan. 2015 375-393*
Cha, M., Phillips, R.D., Wolfe, P.J., and Richmond, C.D., Two-Stage Change Detection for Synthetic Aperture Radar; *TGRS Dec. 2015 6547-6560*
Chai, L., see Kou, X., *TGRS Nov. 2015 6048-6057*
Chakrabarti, S., Bongiovanni, T., Judge, J., Nagarajan, K., and Principe, J.C., Downscaling Satellite-Based Soil Moisture in Heterogeneous Regions Using High-Resolution Remote Sensing Products and Information Theory: A Synthetic Study; *TGRS Jan. 2015 85-101*
Chandrasekar, V., see Ruzanski, E., *TGRS June 2015 3073-3083*
Chandrasekar, V., see Alku, L., *TGRS July 2015 3628-3638*
Chandrasekar, V., see Chen, H., *TGRS Sept. 2015 5197-5208*
Chandrasekar, V., see Beauchamp, R.M., *TGRS Nov. 2015 6183-6195*
Chang, C., Schultz, R.C., Hobbs, M.C., Chen, S., Wang, Y., and Liu, C., Progressive Band Processing of Constrained Energy Minimization for Sub-pixel Detection; *TGRS March 2015 1626-1637*
Chang, C., see Song, M., *TGRS June 2015 3055-3072*
Chang, L., see Jiang, M., *TGRS March 2015 1213-1224*
Chang, L., Gao, G., Jin, S., He, X., Xiao, R., and Guo, L., Calibration and Evaluation of Precipitable Water Vapor From MODIS Infrared Observations at Night; *TGRS May 2015 2612-2620*
Chang, T., Wu, X., and Weng, F., Postlaunch Calibration Update of MetOp-B AVHRR Reflective Solar Channels Using MetOp-A; *TGRS May 2015 2286-2294*
Chang, W., see Zhang, Q., *TGRS Jan. 2015 219-228*
Chanussot, J., see Cubero-Castan, M., *TGRS April 2015 1894-1906*
Chanussot, J., see Vivone, G., *TGRS April 2015 1997-2010*
Chanussot, J., see Besic, N., *TGRS March 2015 1236-1247*
Chanussot, J., see Simoes, M., *TGRS June 2015 3373-3388*
Chanussot, J., see Vivone, G., *TGRS May 2015 2565-2586*
Chanussot, J., see Xia, J., *TGRS May 2015 2532-2546*
Chanussot, J., see Marrero, R., *TGRS July 2015 3772-3790*
Chanussot, J., see Xia, J., *TGRS Sept. 2015 4768-4786*
Chao, P., see Chen, T., *TGRS July 2015 3749-3763*
Chapman, B.D., see Fore, A.G., *TGRS June 2015 3481-3491*
Chapman, M., see Guan, H., *TGRS March 2015 1527-1537*
Chapron, B., see Boisot, O., *TGRS Nov. 2015 5889-5900*
Chapron, B., see Said, F., *TGRS Dec. 2015 6632-6638*
Chaudhuri, S., see Meka, A., *TGRS April 2015 1707-1717*
Chaudhuri, S., see Banerjee, B., *TGRS July 2015 4045-4062*
Chen, A., see Sun, Z., *TGRS July 2015 3737-3748*
Chen, C., see Liu, K., *TGRS April 2015 2254-2269*
Chen, C., see Wang, C., *TGRS June 2015 3442-3451*
Chen, C., see Li, W., *TGRS July 2015 3681-3693*
Chen, C., Zare, A., and Cobb, J.T., Sand Ripple Characterization Using an Extended Synthetic Aperture Sonar Model and Parallel Sampling Method; *TGRS Oct. 2015 5547-5559*
Chen, C.L.P., see Zhou, Y., *TGRS Feb. 2015 1082-1095*
Chen, C.L.P., see Peng, J., *TGRS Sept. 2015 4810-4824*
Chen, D., see Wang, Z., *TGRS May 2015 2409-2425*
Chen, D.D., and Ruf, C.S., Adaptive Control of Undetected Radio Frequency Interference With a Spaceborne Microwave Radiometer; *TGRS Sept. 2015 4972-4984*
Chen, G., see Shi, S., *TGRS April 2015 2185-2194*
Chen, H., see Jia, L., *TGRS July 2015 3960-3973*
Chen, H., and Chandrasekar, V., Estimation of Light Rainfall Using Ku-Band Dual-Polarization Radar; *TGRS Sept. 2015 5197-5208*
Chen, J., see Wang, P., *TGRS March 2015 1225-1235*
Chen, J., see Wang, J., *TGRS Sept. 2015 4910-4921*
Chen, K., see Lee, J., *TGRS March 2015 1150-1160*
Chen, L., see Wang, J., *TGRS Sept. 2015 5218-5228*
Chen, N., see Xiong, X., *TGRS Oct. 2015 5709-5721*
Chen, N., Xing, C., Zhang, X., Zhang, L., and Gong, J., Spaceborne Earth-Observing Optical Sensor Static Capability Index for Clustering; *TGRS Oct. 2015 5504-5518*
Chen, P., Yao, W., and Zhu, X., Combination of Ground- and Space-Based Data to Establish a Global Ionospheric Grid Model; *TGRS Feb. 2015 1073-1081*
Chen, P., see Jiang, Y., *TGRS July 2015 3985-3995*
Chen, S., and Tian, Y., Pyramid of Spatial Relations for Scene-Level Land Use Classification; *TGRS April 2015 1947-1957*
Chen, S., see Chang, C., *TGRS March 2015 1626-1637*
Chen, S., Zhang, J., Mullens, E., Hong, Y., Behrangi, A., Tian, Y., Hu, X., Hu, J., Zhang, Z., and Zhang, X., Mapping the Precipitation Type Distribution Over the Contiguous United States Using NOAA/NSSL National Multi-Sensor Mosaic QPE; *TGRS Aug. 2015 4434-4443*
Chen, S., Hong, Y., Cao, Q., Tian, Y., Hu, J., Zhang, X., Li, W., Carr, N., Shen, X., and Qiao, L., Intercomparison of Precipitation Estimates From WSR-88D Radar and TRMM Measurement Over Continental United States; *TGRS Aug. 2015 4444-4456*
Chen, S., see Yan, J., *TGRS Jan. 2015 3-14*
Chen, T., Liu, J., Chao, P., and Li, P., Ultrawideband Synthetic Aperture Radar for Respiratory Motion Detection; *TGRS July 2015 3749-3763*
Chen, W., Current Motion Tracking from Satellite Image Sequence With Global Similarity Optimization Model; *TGRS Feb. 2015 1008-1015*
Chen, W., Zhao, H., Li, Z., Jing, X., and Yan, L., Uncertainty Evaluation of an In-Flight Absolute Radiometric Calibration Using a Statistical Monte Carlo Method; *TGRS May 2015 2925-2934*
Chen, X., Guan, J., Huang, Y., Liu, N., and He, Y., Radon-Linear Canonical Ambiguity Function-Based Detection and Estimation Method for Marine Target With Micromotion; *TGRS April 2015 2225-2240*
Chen, X., see Lang, S., *TGRS Aug. 2015 4496-4509*
Chen, X., see Xu, K., *TGRS Feb. 2015 841-850*

- Chen, X.**, see Li, C., *TGRS Oct. 2015 5388-5402*
- Chen, X.**, Fang, T., Huo, H., and Li, D., Measuring the Effectiveness of Various Features for Thematic Information Extraction From Very High Resolution Remote Sensing Imagery; *TGRS Sept. 2015 4837-4851*
- Chen, Y.**, Xie, Z., Qiu, Z., Zhang, Q., and Hu, Z., Calibration and Validation of ZY-3 Optical Sensors; *TGRS Aug. 2015 4616-4626*
- Chen, Y.**, see Han, M., *TGRS May 2015 2775-2783*
- Chen, Y.**, see Shu, Y., *TGRS Nov. 2015 6148-6162*
- Chen, Z.**, see Pu, H., *TGRS March 2015 1287-1303*
- Cheng, C.**, see Liu, J., *TGRS March 2015 1394-1402*
- Cheng, G.**, see Han, J., *TGRS June 2015 3325-3337*
- Cheng, G.**, Han, J., Guo, L., Liu, Z., Bu, S., and Ren, J., Effective and Efficient Midlevel Visual Elements-Oriented Land-Use Classification Using VHR Remote Sensing Images; *TGRS Aug. 2015 4238-4249*
- Cheng, J.**, see Zhu, Y., *TGRS Sept. 2015 5021-5035*
- Cheng, L.**, Ma, L., Cai, W., Tong, L., Li, M., and Du, P., Integration of Hyperspectral Imagery and Sparse Sonar Data for Shallow Water Bathymetry Mapping; *TGRS June 2015 3235-3249*
- Cheng, L.**, see Xue, Z., *TGRS Jan. 2015 70-84*
- Cherniakov, M.**, see Zhang, Q., *TGRS Jan. 2015 219-228*
- Chew, C.C.**, Small, E.E., Larson, K.M., and Zavorotny, V.U., Vegetation Sensing Using GPS-Interferometric Reflectometry: Theoretical Effects of Canopy Parameters on Signal-to-Noise Ratio Data; *TGRS May 2015 2755-2764*
- Chi, C.**, see Lin, C., *TGRS Oct. 2015 5530-5546*
- Chlingaryan, A.**, see Murphy, R.J., *TGRS April 2015 1907-1920*
- Choshi, H.**, see Ebihara, S., *TGRS April 2015 1842-1854*
- Chuah, H.T.**, see Teng, K.C., *TGRS June 2015 3250-3259*
- Ciarletti, V.**, see Biancheri-Astier, M., *TGRS Aug. 2015 4627-4637*
- Ciochina, S.**, see Anghel, A., *TGRS Aug. 2015 4379-4393*
- Cipollini, P.**, see Passaro, M., *TGRS April 2015 2146-2156*
- Clarizia, M.P.**, see Ray, C., *TGRS Feb. 2015 911-919*
- Clayton, M.K.**, see Zhang, J., *TGRS March 2015 1574-1582*
- Clemente, C.**, see Carotenuto, V., *TGRS June 2015 3294-3311*
- Cobb, J.T.**, see Chen, C., *TGRS Oct. 2015 5547-5559*
- Cochrane, C.J.**, and Blacksberg, J., A Fast Classification Scheme in Raman Spectroscopy for the Identification of Mineral Mixtures Using a Large Database With Correlated Predictors; *TGRS Aug. 2015 4259-4274*
- Cohen, I.**, see Mishne, G., *TGRS May 2015 2738-2754*
- Cohen, J.**, Lemmetyinen, J., Pulliainen, J., Heinila, K., Montomoli, F., Seppanen, J., and Hallikainen, M.T., The Effect of Boreal Forest Canopy in Satellite Snow Mapping—A Multisensor Analysis; *TGRS Dec. 2015 6593-6607*
- Colliander, A.**, see McNairn, H., *TGRS May 2015 2784-2801*
- Colliander, A.**, see Martens, B., *TGRS July 2015 4091-4103*
- Collins, L.M.**, see Manandhar, A., *TGRS April 2015 1737-1745*
- Cong, M.**, see Zhang, Y., *TGRS Dec. 2015 6372-6384*
- Cook, B.**, see Basu, S., *TGRS Oct. 2015 5690-5708*
- Coomes, D.A.**, see Lee, J., *TGRS Nov. 2015 6073-6084*
- Corsini, G.**, see Zotta, L., *TGRS June 2015 3022-3041*
- Corsini, G.**, see Matteoli, S., *TGRS Jan. 2015 375-393*
- Cosh, M.H.**, see McNairn, H., *TGRS May 2015 2784-2801*
- Couceiro, M.S.**, see Ghamisi, P., *TGRS May 2015 2935-2947*
- Coulibaly, P.**, see Kornelsen, K.C., *TGRS July 2015 3950-3959*
- Cox, A.T.**, see Romeiser, R., *TGRS March 2015 1320-1345*
- Crawford, M.M.**, see Ma, L., *TGRS May 2015 2832-2844*
- Creusere, C.D.**, see Castorena, J., *TGRS July 2015 3791-3802*
- Cribari-Neto, F.**, see Dias, L., *TGRS Feb. 2015 851-861*
- Crocco, L.**, see Di Donato, L., *TGRS Aug. 2015 4178-4185*
- Cubero-Castan, M.**, Chanussot, J., Achard, V., Briottet, X., and Shimoni, M., A Physics-Based Unmixing Method to Estimate Subpixel Temperatures on Mixed Pixels; *TGRS April 2015 1894-1906*
- Cucurull, L.**, see Cardellach, E., *TGRS Jan. 2015 190-206*
- Cui, J.**, see Jia, K., *TGRS Sept. 2015 4787-4796*
- Cui, M.**, and Prasad, S., Class-Dependent Sparse Representation Classifier for Robust Hyperspectral Image Classification; *TGRS May 2015 2683-2695*
- Cui, Y.**, Yamaguchi, Y., Yamada, H., and Park, S., PolInSAR Coherence Region Modeling and Inversion: The Best Normal Matrix Approximation Solution; *TGRS Feb. 2015 1048-1060*
- Cureton, G.P.**, Retrieval of Higher Order Ocean Spectral Information From Sunlint; *TGRS Jan. 2015 36-50*
- D**
- Dadhwal, V.K.**, see Malleswara Rao, J., *TGRS Nov. 2015 5853-5860*
- Dall, J.**, see Nielsen, U., *TGRS Sept. 2015 5170-5179*
- Dalla Mura, M.**, see Vivone, G., *TGRS April 2015 1997-2010*
- Dalla Mura, M.**, see Vivone, G., *TGRS May 2015 2565-2586*
- Dalla Mura, M.**, see Ghamisi, P., *TGRS May 2015 2335-2353*
- Dalla Mura, M.**, see Xia, J., *TGRS Sept. 2015 4768-4786*
- Dammert, P.**, see Berg, A., *TGRS March 2015 1248-1256*
- Daniels, J.L.**, Smith, G.L., Priestley, K.J., and Thomas, S., Using Lunar Observations to Validate In-Flight Calibrations of Clouds and the Earth's Radiant Energy System Instruments; *TGRS Sept. 2015 5110-5116*
- Daniels, T.**, Smith, W.L., and Kireev, S., Simulation of Airborne Radiometric Detection of Wake Vortices; *TGRS Dec. 2015 6336-6343*
- Danudirdjo, D.**, and Hirose, A., InSAR Image Regularization and DEM Error Correction With Fractal Surface Scattering Model; *TGRS March 2015 1427-1439*
- Danudirdjo, D.**, and Hirose, A., Anisotropic Phase Unwrapping for Synthetic Aperture Radar Interferometry; *TGRS July 2015 4116-4126*
- Darmody, R.G.**, see Dutta, D., *TGRS Sept. 2015 5133-5147*
- Das, D.**, Ganguly, A.R., and Obradovic, Z., A Bayesian Sparse Generalized Linear Model With an Application to Multiscale Covariate Discovery for Observed Rainfall Extremes Over the United States; *TGRS Dec. 2015 6689-6702*
- Das, N.**, see Piles, M., *TGRS Aug. 2015 4700-4711*
- Daumard, F.**, Goulas, Y., Ounis, A., Pedros, R., and Moya, I., Measurement and Correction of Atmospheric Effects at Different Altitudes for Remote Sensing of Sun-Induced Fluorescence in Oxygen Absorption Bands; *TGRS Sept. 2015 5180-5196*
- Davidson, M.W.J.**, see Patel, A., *TGRS May 2015 2547-2564*
- Davis, A.B.**, see Yanovsky, I., *TGRS May 2015 2275-2285*
- De Baets, B.**, see Verhoest, N.E.C., *TGRS June 2015 3507-3521*
- de Jeu, R.A.M.**, see de Nijs, A.H.A., *TGRS Sept. 2015 5148-5159*
- de la Torre-Juarez, M.**, see Cardellach, E., *TGRS Jan. 2015 190-206*
- De Maio, A.**, see Carotenuto, V., *TGRS June 2015 3294-3311*
- de Nijs, A.H.A.**, Parinussa, R.M., de Jeu, R.A.M., Schellekens, J., and Holmes, T.R.H., A Methodology to Determine Radio-Frequency Interference in AMSR2 Observations; *TGRS Sept. 2015 5148-5159*
- de Reijer, J.P.**, see McKay-Bukowski, D., *TGRS March 2015 1440-1451*
- De Zan, F.**, see Rodriguez-Cassola, M., *TGRS Jan. 2015 25-35*
- De Zan, F.**, Zonno, M., and Lopez-Dekker, P., Phase Inconsistencies and Multiple Scattering in SAR Interferometry; *TGRS Dec. 2015 6608-6616*
- DeChant, C.M.**, see Yan, H., *TGRS Nov. 2015 6134-6147*
- Dehmollaiian, M.**, see Moghadasi, S.M., *TGRS July 2015 3897-3905*
- Del Moro, A.**, see Catapano, I., *TGRS Oct. 2015 5624-5633*
- Delbar, F.**, see Polydorides, N., *TGRS Feb. 2015 988-1000*
- Deledalle, C.**, Denis, L., Tupin, F., Reigber, A., and Jager, M., NL-SAR: A Unified Nonlocal Framework for Resolution-Preserving (Pol)(In)SAR Denoising; *TGRS April 2015 2021-2038*
- Dellinger, F.**, Delon, J., Gousseau, Y., Michel, J., and Tupin, F., SAR-SIFT: A SIFT-Like Algorithm for SAR Images; *TGRS Jan. 2015 453-466*
- Delon, J.**, see Dellinger, F., *TGRS Jan. 2015 453-466*
- Demir, B.**, and Bruzzone, L., A Novel Active Learning Method in Relevance Feedback for Content-Based Remote Sensing Image Retrieval; *TGRS May 2015 2323-2334*
- Deng, C.**, see Tang, J., *TGRS March 2015 1174-1185*
- Deng, M.**, see Sun, Z., *TGRS July 2015 3737-3748*
- Denis, L.**, see Deledalle, C., *TGRS April 2015 2021-2038*
- Derov, J.**, see Jang, W., *TGRS June 2015 3471-3480*
- Di, L.**, see Sun, Z., *TGRS July 2015 3737-3748*
- Di Donato, L.**, and Crocco, L., Model-Based Quantitative Cross-Borehole GPR Imaging via Virtual Experiments; *TGRS Aug. 2015 4178-4185*
- Di Martino, G.**, and Iodice, A., Coprime Synthetic Aperture Radar (CopSAR): A New Acquisition Mode for Maritime Surveillance; *TGRS June 2015 3110-3123*
- Di Martino, G.**, see Amitrano, D., *TGRS Jan. 2015 117-133*
- Diani, M.**, see Zotta, L., *TGRS June 2015 3022-3041*
- Diani, M.**, see Matteoli, S., *TGRS Jan. 2015 375-393*
- Dias, L.**, Cribari-Neto, F., and Ospina, R., Interval Edge Estimation in SAR Images; *TGRS Feb. 2015 851-861*
- DiBiano, R.**, see Basu, S., *TGRS Oct. 2015 5690-5708*
- Dick, G.**, see Li, X., *TGRS Dec. 2015 6385-6393*
- Dinardo, S.**, see Ray, C., *TGRS Feb. 2015 911-919*
- Ding, C.**, see Zhang, Y., *TGRS Aug. 2015 4687-4699*

- Ding, C.**, see Meng, D., *TGRS May 2015 2510-2519*
- Ding, C.**, see Wang, J., *TGRS Sept. 2015 5218-5228*
- Ding, X.**, see Jiang, M., *TGRS March 2015 1213-1224*
- Ding, Z.**, see Zeng, T., *TGRS Dec. 2015 6718-6734*
- Dobigeon, N.**, see Wei, Q., *TGRS July 2015 3658-3668*
- Doelling, D.R.**, see Khlopenkov, K.V., *TGRS March 2015 1504-1512*
- Doelling, D.R.**, Khlopenkov, K.V., Okuyama, A., Haney, C.O., Gopalan, A., Scarino, B.R., Nordeen, M., Bhatt, R., and Avey, L., MTSAT-1R Visible Imager Point Spread Correction Function, Part I: The Need for, Validation of, and Calibration With; *TGRS March 2015 1513-1526*
- Doelling, D.R.**, Wu, A., Xiong, X., Scarino, B.R., Bhatt, R., Haney, C.O., Morstad, D., and Gopalan, A., The Radiometric Stability and Scaling of Collection 6 Terra- and Aqua-MODIS VIS, NIR, and SWIR Spectral Bands; *TGRS Aug. 2015 4520-4535*
- Dong, S.**, see Huang, Q., *TGRS July 2015 3833-3846*
- Dopido, I.**, see Li, J., *TGRS May 2015 2899-2912*
- Doulgeris, A.P.**, An Automatic \mathcal{U} -Distribution and Markov Random Field Segmentation Algorithm for PolSAR Images; *TGRS April 2015 1819-1827*
- Doviak, R.J.**, see Lei, L., *TGRS Aug. 2015 4313-4327*
- Doviak, R.J.**, see Melnikov, V.M., *TGRS Oct. 2015 5634-5643*
- Drinkwater, M.R.**, see Jezek, K.C., *TGRS Jan. 2015 134-143*
- Drusch, M.**, see Verhoest, N.E.C., *TGRS June 2015 3507-3521*
- Drusch, M.**, see Rodriguez-Fernandez, N.J., *TGRS Nov. 2015 5991-6007*
- Du, B.**, see Zhang, F., *TGRS April 2015 2175-2184*
- Du, B.**, see Zhang, Y., *TGRS March 2015 1346-1354*
- Du, B.**, see Wang, N., *TGRS Jan. 2015 416-428*
- Du, B.**, see Shi, Q., *TGRS Oct. 2015 5677-5689*
- Du, H.**, see Shu, Y., *TGRS Nov. 2015 6148-6162*
- Du, J.**, Kimball, J.S., and Jones, L.A., Satellite Microwave Retrieval of Total Precipitable Water Vapor and Surface Air Temperature Over Land From AMSR2; *TGRS May 2015 2520-2531*
- Du, J.**, Kimball, J.S., Azarderakhsh, M., Dunbar, R.S., Moghaddam, M., and McDonald, K.C., Classification of Alaska Spring Thaw Characteristics Using Satellite L-Band Radar Remote Sensing; *TGRS Jan. 2015 542-556*
- Du, P.**, see Cheng, L., *TGRS June 2015 3235-3249*
- Du, P.**, see Liu, S., *TGRS Aug. 2015 4363-4378*
- Du, P.**, see Xia, J., *TGRS May 2015 2532-2546*
- Du, P.**, see Liu, S., *TGRS Jan. 2015 244-260*
- Du, P.**, see Xue, Z., *TGRS Jan. 2015 70-84*
- Du, P.**, see Xia, J., *TGRS Sept. 2015 4768-4786*
- Du, P.**, see Xue, Z., *TGRS Nov. 2015 6114-6133*
- Du, Q.**, see Li, W., *TGRS March 2015 1463-1474*
- Du, Q.**, see Li, W., *TGRS July 2015 3681-3693*
- Du, Q.**, see Sumarsono, A., *TGRS Nov. 2015 6286-6292*
- Du, Y.**, see Wang, Y., *TGRS April 2015 1865-1875*
- Du, Y.**, see Wu, T., *TGRS Jan. 2015 102-116*
- Duan, H.**, and Gan, L., Elitist Chemical Reaction Optimization for Contour-Based Target Recognition in Aerial Images; *TGRS May 2015 2845-2859*
- Duan, W.**, see Fang, L., *TGRS Dec. 2015 6663-6674*
- Duan, X.**, see Tabatabaenejad, A., *TGRS Feb. 2015 645-658*
- Duan, Y.**, see Shi, C., *TGRS June 2015 3417-3431*
- Dubayah, R.**, see Basu, S., *TGRS Oct. 2015 5690-5708*
- Dubois-Fernandez, P.C.**, see Ho Tong Minh, D., *TGRS Feb. 2015 965-975*
- Duersch, M.I.**, and Long, D.G., Analysis of Multistatic Pixel Correlation in SAR; *TGRS Jan. 2015 362-374*
- Duguay, C.**, see Atwood, D.K., *TGRS Nov. 2015 5972-5982*
- Dumedah, G.**, see Verhoest, N.E.C., *TGRS June 2015 3507-3521*
- Dunbar, R.S.**, see Du, J., *TGRS Jan. 2015 542-556*
- Duncanson, L.**, see Basu, S., *TGRS Oct. 2015 5690-5708*
- Durand, M.**, see Li, D., *TGRS May 2015 2308-2322*
- Durand, M.**, see Jezek, K.C., *TGRS Jan. 2015 134-143*
- Dutta, D.**, Goodwell, A.E., Kumar, P., Garvey, J.E., Darmody, R.G., Berretta, D.P., and Greenberg, J.A., On the Feasibility of Characterizing Soil Properties From AVIRIS Data; *TGRS Sept. 2015 5133-5147*
- E**
- Eastwood, M.**, see Bue, B.D., *TGRS Dec. 2015 6419-6428*
- Ebadi, H.**, see Sedaghat, A., *TGRS Oct. 2015 5283-5293*
- Ebbendorf, N.**, see McKay-Bukowski, D., *TGRS March 2015 1440-1451*
- Ebihara, S.**, Kimura, Y., Shimomura, T., Uchimura, R., and Choshi, H., Coaxial-Fed Circular Dipole Array Antenna With Ferrite Loading for Thin Directional Borehole Radar Sonde; *TGRS April 2015 1842-1854*
- Ebtehaj, A.M.**, Bras, R.L., and Fofoula-Georgiou, E., Shrunk Locally Linear Embedding for Passive Microwave Retrieval of Precipitation; *TGRS July 2015 3720-3736*
- Ector, D.**, see Cardellach, E., *TGRS Jan. 2015 190-206*
- Efremova, B.**, see McIntire, J., *TGRS May 2015 2354-2365*
- Eibert, T.F.**, see Wang, F., *TGRS June 2015 3432-3441*
- Eineder, M.**, see Gisinger, C., *TGRS April 2015 1782-1802*
- Eineder, M.**, see Rossi, C., *TGRS Dec. 2015 6457-6468*
- Eismann, M.T.**, see Vongsy, K., *TGRS June 2015 3005-3021*
- Eixmann, R.**, Gerding, M., Hoffner, J., and Kopp, M., Lidars With Narrow FOV for Daylight Measurements; *TGRS Aug. 2015 4548-4553*
- Eklundh, L.**, see Jin, H., *TGRS June 2015 3405-3416*
- Eltoft, T.**, see Skrunes, S., *TGRS April 2015 1958-1975*
- Enel, C.**, see McKay-Bukowski, D., *TGRS March 2015 1440-1451*
- Engen, G.**, see Said, F., *TGRS Dec. 2015 6632-6638*
- English, S.J.**, see Kazumori, M., *TGRS Nov. 2015 5901-5914*
- Entekhabi, D.**, see Narvekar, P.S., *TGRS June 2015 3492-3506*
- Entekhabi, D.**, see Piles, M., *TGRS Aug. 2015 4700-4711*
- Eriksson, L.E.B.**, see Berg, A., *TGRS March 2015 1248-1256*
- Eriksson, P.**, see Moradi, I., *TGRS Nov. 2015 5915-5925*
- Eriksson, P.**, see Moradi, I., *TGRS Dec. 2015 6675-6688*
- Erten, E.**, see Rossi, C., *TGRS Feb. 2015 900-910*
- Espinola, M.**, Piedra-Fernandez, J.A., Ayala, R., Iribarne, L., and Wang, J.Z., Contextual and Hierarchical Classification of Satellite Images Based on Cellular Automata; *TGRS Feb. 2015 795-809*
- Esposito, C.**, see Perna, S., *TGRS May 2015 2713-2726*
- Estatico, C.**, see Lenti, F., *TGRS Sept. 2015 4876-4886*
- Eugenio, F.**, Marcello, J., and Martin, J., High-Resolution Maps of Bathymetry and Benthic Habitats in Shallow-Water Environments Using Multispectral Remote Sensing Imagery; *TGRS July 2015 3539-3549*
- Ewe, H.T.**, see Teng, K.C., *TGRS June 2015 3250-3259*
- Ewing, R.L.**, see Cao, S., *TGRS Jan. 2015 229-243*
- F**
- Falchetti, S.**, see Horstmann, J., *TGRS May 2015 2887-2898*
- Falco, N.**, Benediktsson, J.A., and Bruzzone, L., Spectral and Spatial Classification of Hyperspectral Images Based on ICA and Reduced Morphological Attribute Profiles; *TGRS Nov. 2015 6223-6240*
- Fallows, R.**, see McKay-Bukowski, D., *TGRS March 2015 1440-1451*
- Fang, G.**, see Lang, S., *TGRS Aug. 2015 4496-4509*
- Fang, G.**, see Sun, Z., *TGRS Jan. 2015 519-526*
- Fang, H.**, see Sun, Z., *TGRS July 2015 3737-3748*
- Fang, L.**, see Kang, X., *TGRS April 2015 2241-2253*
- Fang, L.**, Li, S., Kang, X., and Benediktsson, J.A., Spectral-Spatial Classification of Hyperspectral Images With a Superpixel-Based Discriminative Sparse Model; *TGRS Aug. 2015 4186-4201*
- Fang, L.**, see Kang, X., *TGRS Jan. 2015 144-153*
- Fang, L.**, Li, S., Duan, W., Ren, J., and Benediktsson, J.A., Classification of Hyperspectral Images by Exploiting Spectral-Spatial Information of Superpixel via Multiple Kernels; *TGRS Dec. 2015 6663-6674*
- Fang, T.**, see Wang, Z., *TGRS May 2015 2409-2425*
- Fang, T.**, see Chen, X., *TGRS Sept. 2015 4837-4851*
- Fang, W.**, Huang, X., Zhang, F., and Li, D., Intensity Correction of Terrestrial Laser Scanning Data by Estimating Laser Transmission Function; *TGRS Feb. 2015 942-951*
- Fehler, M.**, see Feng, X., *TGRS Sept. 2015 4852-4861*
- Fei, T.**, Kraus, D., and Zoubir, A.M., Contributions to Automatic Target Recognition Systems for Underwater Mine Classification; *TGRS Jan. 2015 505-518*
- Feingersh, T.**, see Schlapfer, D., *TGRS April 2015 1855-1864*
- Feitosa, R.Q.**, see Hoberg, T., *TGRS Feb. 2015 659-673*
- Felbier, A.**, see Geiss, C., *TGRS Aug. 2015 4348-4362*
- Femiani, J.**, see Li, E., *TGRS Aug. 2015 4483-4495*
- Feng, J.**, Jiao, L., Liu, F., Sun, T., and Zhang, X., Mutual-Information-Based Semi-Supervised Hyperspectral Band Selection With High Discrimination, High Information, and Low Redundancy; *TGRS May 2015 2956-2969*
- Feng, L.**, see Zhang, X., *TGRS July 2015 3694-3706*
- Feng, X.**, see Zeng, Z., *TGRS Jan. 2015 15-24*
- Feng, X.**, see Zhang, X., *TGRS July 2015 3694-3706*
- Feng, X.**, Yu, Y., Liu, C., and Fehler, M., Combination of H-Alpha Decomposition and Migration for Enhancing Subsurface Target Classification of GPR; *TGRS Sept. 2015 4852-4861*

- Fenoglio-Marc, L.**, see Passaro, M., *TGRS April 2015 2146-2156*
- Fensholt, R.**, see Xiao, Z., *TGRS June 2015 3178-3197*
- Fernandez, S.**, Murk, A., and Kampfer, N., Design and Characterization of a Peltier-Cold Calibration Target for a 110-GHz Radiometer; *TGRS Jan. 2015 344-351*
- Ferraro, R.R.**, see Moradi, I., *TGRS Nov. 2015 5915-5925*
- Ferraro, R.R.**, see Moradi, I., *TGRS Dec. 2015 6675-6688*
- Ferraz, A.**, Mallet, C., Jacquemoud, S., Goncalves, G.R., Tome, M., Soares, P., Pereira, L.G., and Bretar, F., Canopy Density Model: A New ALS-Derived Product to Generate Multilayer Crown Cover Maps; *TGRS Dec. 2015 6776-6790*
- Ferro-Famil, L.**, see Wu, W., *TGRS Oct. 2015 5583-5599*
- Fiche, A.**, Angelliaume, S., Rosenberg, L., and Khenchaf, A., Analysis of X-Band SAR Sea-Clutter Distributions at Different Grazing Angles; *TGRS Aug. 2015 4650-4660*
- Finley, A.O.**, see Junttila, V., *TGRS Oct. 2015 5600-5612*
- Finnegan, D.C.**, see Hartzell, P.J., *TGRS Jan. 2015 162-172*
- Fois, F.**, Hoogeboom, P., Le Chevalier, F., and Stoffelen, A., Future Ocean Scatterometry: On the Use of Cross-Polar Scattering to Observe Very High Winds; *TGRS Sept. 2015 5009-5020*
- Fore, A.G.**, Chapman, B.D., Hawkins, B.P., Hensley, S., Jones, C.E., Michel, T.R., and Muellerschoen, R.J., UAVSAR Polarimetric Calibration; *TGRS June 2015 3481-3491*
- Forgan, B.W.**, see Qin, Y., *TGRS Nov. 2015 6163-6182*
- Fornaro, G.**, Verde, S., Reale, D., and Pauciuillo, A., CAESAR: An Approach Based on Covariance Matrix Decomposition to Improve Multibaseline-Multitemporal Interferometric SAR Processing; *TGRS April 2015 2050-2065*
- Fornaro, G.**, see Noviello, C., *TGRS June 2015 3460-3470*
- Foroootan, E.**, see Uebbing, B., *TGRS April 2015 2211-2224*
- Foufoula-Georgiou, E.**, see Ebtehaj, A.M., *TGRS July 2015 3720-3736*
- Fox, N.P.**, see Ball, C.P., *TGRS Oct. 2015 5377-5387*
- Franch, B.**, see Breon, F., *TGRS Aug. 2015 4638-4649*
- Fras, M.K.**, see Marsetic, A., *TGRS Nov. 2015 6035-6047*
- Frasier, S.**, see Lange, D., *TGRS June 2015 3338-3349*
- Fu, M.**, see Yuan, Y., *TGRS June 2015 2975-2986*
- Fu, Q.**, see Zhou, J., *TGRS March 2015 1638-1655*
- Fu, T.C.**, see Hackett, E.E., *TGRS Nov. 2015 5926-5942*
- Fuhrmann, T.**, see Alshawaf, F., *TGRS July 2015 3764-3771*
- Fullerton, A.M.**, see Hackett, E.E., *TGRS Nov. 2015 5926-5942*
- G**
- Gader, P.**, see Yuksel, S.E., *TGRS Dec. 2015 6766-6775*
- Gaetano, R.**, Masi, G., Poggi, G., Verdoliva, L., and Scarpa, G., Marker-Controlled Watershed-Based Segmentation of Multiresolution Remote Sensing Images; *TGRS June 2015 2987-3004*
- Gajjar, P.P.**, see Upla, K.P., *TGRS June 2015 3210-3220*
- Gamba, P.**, see Li, J., *TGRS March 2015 1592-1606*
- Gamba, P.**, see Li, J., *TGRS May 2015 2899-2912*
- Gan, L.**, see Duan, H., *TGRS May 2015 2845-2859*
- Ganguly, A.R.**, see Das, D., *TGRS Dec. 2015 6689-6702*
- Ganguly, S.**, see Basu, S., *TGRS Oct. 2015 5690-5708*
- Gao, B.**, see Bue, B.D., *TGRS Dec. 2015 6419-6428*
- Gao, G.**, see Chang, L., *TGRS May 2015 2612-2620*
- Gao, G.**, Wang, X., and Lai, T., Detection of Moving Ships Based on a Combination of Magnitude and Phase in Along-Track Interferometric SAR—Part II: Statistical Modeling and CFAR Detection; *TGRS July 2015 3582-3599*
- Gao, G.**, Wang, X., and Lai, T., Detection of Moving Ships Based on a Combination of Magnitude and Phase in Along-Track Interferometric SAR—Part I: SIMP Metric and Its Performance; *TGRS July 2015 3565-3581*
- Gao, H.**, Jupp, D., Qin, Y., Gu, X., and Yu, T., Cross-Calibration of the HSI Sensor Reflective Solar Bands Using Hyperion Data; *TGRS July 2015 4127-4137*
- Gao, P.**, Xu, X., and Zhang, X., Characteristics of the Trends in the Global Tropopause Estimated From COSMIC Radio Occultation Data; *TGRS Dec. 2015 6813-6822*
- Gao, X.**, see Sun, Z., *TGRS Jan. 2015 519-526*
- Gao, Y.**, see Shi, J., *TGRS June 2015 3452-3459*
- Gao, Y.**, see Ma, J., *TGRS Dec. 2015 6469-6481*
- Garcon, V.**, see Sudre, J., *TGRS Nov. 2015 6274-6285*
- Garren, D.A.**, Theory of Two-Dimensional Signature Morphology for Arbitrarily Moving Surface Targets in Squinted Spotlight Synthetic Aperture Radar; *TGRS Sept. 2015 4997-5008*
- Garren, D.A.**, Signature Morphology Effects of Squint Angle for Arbitrarily Moving Surface Targets in Spotlight Synthetic Aperture Radar; *TGRS Nov. 2015 6241-6251*
- Garvey, J.E.**, see Dutta, D., *TGRS Sept. 2015 5133-5147*
- Garzelli, A.**, Pansharpening of Multispectral Images Based on Nonlocal Parameter Optimization; *TGRS April 2015 2096-2107*
- Garzelli, A.**, see Vivone, G., *TGRS May 2015 2565-2586*
- Gascon, F.**, see Segl, K., *TGRS Oct. 2015 5560-5571*
- Ge, M.**, see Li, X., *TGRS Dec. 2015 6385-6393*
- Ge, Y.**, see Wu, T., *TGRS Jan. 2015 102-116*
- Gege, P.**, see Lenhard, K., *TGRS Nov. 2015 6085-6098*
- Geiss, C.**, Wurm, M., Breunig, M., Felbier, A., and Taubenbock, H., Normalization of TanDEM-X DSM Data in Urban Environments With Morphological Filters; *TGRS Aug. 2015 4348-4362*
- Geng, X.**, see Zhao, Y., *TGRS Aug. 2015 4250-4258*
- Gennarelli, G.**, Vivone, G., Braca, P., Soldovieri, F., and Amin, M.G., Multiple Extended Target Tracking for Through-Wall Radars; *TGRS Dec. 2015 6482-6494*
- Gerbers, M.**, see McKay-Bukowski, D., *TGRS March 2015 1440-1451*
- Gerdung, M.**, see Eixmann, R., *TGRS Aug. 2015 4548-4553*
- Gerke, T.**, see Kachouie, N.N., *TGRS March 2015 1135-1149*
- Gernhardt, S.**, see Gisinger, C., *TGRS April 2015 1782-1802*
- Geudtner, D.**, see Rodriguez-Cassola, M., *TGRS Jan. 2015 25-35*
- Ghamisi, P.**, Dalla Mura, M., and Benediktsson, J.A., A Survey on Spectral-Spatial Classification Techniques Based on Attribute Profiles; *TGRS May 2015 2335-2353*
- Ghamisi, P.**, Couceiro, M.S., and Benediktsson, J.A., A Novel Feature Selection Approach Based on FODPSO and SVM; *TGRS May 2015 2935-2947*
- Gill, E.W.**, see An, J., *TGRS Jan. 2015 567-577*
- Gillis, N.**, Kuang, D., and Park, H., Hierarchical Clustering of Hyperspectral Images Using Rank-Two Nonnegative Matrix Factorization; *TGRS April 2015 2066-2078*
- Gisinger, C.**, Balss, U., Pail, R., Zhu, X.X., Montazeri, S., Gernhardt, S., and Eineder, M., Precise Three-Dimensional Stereo Localization of Corner Reflectors and Persistent Scatterers With TerraSAR-X; *TGRS April 2015 1782-1802*
- Gisinger, C.**, see Auer, S., *TGRS May 2015 2727-2737*
- Giudici, D.**, see Villa, A., *TGRS Feb. 2015 674-686*
- Giudici, D.**, see Guccione, P., *TGRS Dec. 2015 6804-6812*
- Glennie, C.L.**, see Hartzell, P.J., *TGRS Jan. 2015 162-172*
- Godziuk, A.**, see Klesk, P., *TGRS July 2015 3996-4009*
- Gogineni, S.**, see Patel, A., *TGRS May 2015 2547-2564*
- Goita, K.**, see McNairn, H., *TGRS May 2015 2784-2801*
- Gomez-Garcia, D.**, see Patel, A., *TGRS May 2015 2547-2564*
- Gommenginger, C.**, see Ray, C., *TGRS Feb. 2015 911-919*
- Goncalves, G.R.**, see Ferraz, A., *TGRS Dec. 2015 6776-6790*
- Gong, A.**, see Shu, Y., *TGRS Nov. 2015 6148-6162*
- Gong, J.**, see Chen, N., *TGRS Oct. 2015 5504-5518*
- Gong, M.**, see Li, Y., *TGRS Aug. 2015 4712-4723*
- Gong, W.**, see Han, G., *TGRS June 2015 3221-3234*
- Gong, W.**, Meyer, F.J., Liu, S., and Hanssen, R.F., Temporal Filtering of InSAR Data Using Statistical Parameters From NWP Models; *TGRS July 2015 4033-4044*
- Gonzalez-Casado, G.**, see Rovira-Garcia, A., *TGRS Aug. 2015 4596-4604*
- Goodwell, A.E.**, see Dutta, D., *TGRS Sept. 2015 5133-5147*
- Gopalan, A.**, see Doelling, D.R., *TGRS March 2015 1513-1526*
- Gopalan, A.**, see Doelling, D.R., *TGRS Aug. 2015 4520-4535*
- Goshtasby, A.A.**, see Linger, M.E., *TGRS April 2015 2137-2145*
- Goswami, P.**, see Bhimala, K.R., *TGRS Oct. 2015 5425-5434*
- Goulas, Y.**, see Daumard, F., *TGRS Sept. 2015 5180-5196*
- Gousseau, Y.**, see Dellinger, F., *TGRS Jan. 2015 453-466*
- Graber, H.C.**, see Romeiser, R., *TGRS March 2015 1320-1345*
- Graber, H.C.**, see Horstmann, J., *TGRS May 2015 2887-2898*
- Graber, H.C.**, see Romeiser, R., *TGRS Dec. 2015 6735-6751*
- Granstrom, K.**, Natale, A., Braca, P., Ludeno, G., and Serafino, F., Gamma Gaussian Inverse Wishart Probability Hypothesis Density for Extended Target Tracking Using X-Band Marine Radar Data; *TGRS Dec. 2015 6617-6631*
- Gray, D.A.**, see Wu, X., *TGRS April 2015 1921-1934*
- Green, P.D.**, see Ball, C.P., *TGRS Oct. 2015 5377-5387*
- Green, R.O.**, see Bue, B.D., *TGRS Dec. 2015 6419-6428*

- Greenberg, J.A.**, see Dutta, D., *TGRS Sept. 2015 5133-5147*
- Grit, T.**, see McKay-Bukowski, D., *TGRS March 2015 1440-1451*
- Grizonnet, M.**, see Michel, J., *TGRS Feb. 2015 952-964*
- Grizonnet, M.**, see Lassalle, P., *TGRS Oct. 2015 5473-5485*
- Gruppen, P.**, see McKay-Bukowski, D., *TGRS March 2015 1440-1451*
- Gu, X.**, see Gao, H., *TGRS July 2015 4127-4137*
- Gu, Y.**, Wang, Q., Jia, X., and Benediktsson, J.A., A Novel MKL Model of Integrating LiDAR Data and MSI for Urban Area Classification; *TGRS Oct. 2015 5312-5326*
- Gu, Y.**, see Tang, S., *TGRS Dec. 2015 6529-6546*
- Guan, H.**, Li, J., Yu, Y., Chapman, M., Wang, H., Wang, C., and Zhai, R., Iterative Tensor Voting for Pavement Crack Extraction Using Mobile Laser Scanning Data; *TGRS March 2015 1527-1537*
- Guan, H.**, see Yu, Y., *TGRS March 2015 1374-1386*
- Guan, J.**, see Chen, X., *TGRS April 2015 2225-2240*
- Guan, J.**, see Zhuge, X., *TGRS Oct. 2015 5661-5676*
- Guanter, L.**, see Segl, K., *TGRS Oct. 2015 5560-5571*
- Guccione, P.**, Mascolo, L., and Appice, A., Iterative Hyperspectral Image Classification Using Spectral-Spatial Relational Features; *TGRS July 2015 3615-3627*
- Guccione, P.**, Belotti, M., Giudici, D., Monti Guarnieri, A., and Navas-Traver, I., Sentinel-1A: Analysis of FDBAQ Performance on Real Data; *TGRS Dec. 2015 6804-6812*
- Gueguen, L.**, Classifying Compound Structures in Satellite Images: A Compressed Representation for Fast Queries; *TGRS April 2015 1803-1818*
- Guenther, B.**, see Lei, N., *TGRS March 2015 1565-1573*
- Guerin, C.**, see Boisot, O., *TGRS Nov. 2015 5889-5900*
- Guerin, C.**, and Johnson, J., A Simplified Formulation for Rough Surface Cross-Polarized Backscattering Under the Second-Order Small-Slope Approximation; *TGRS Nov. 2015 6308-6314*
- Guerra, R.**, Santos, L., Lopez, S., and Sarmiento, R., A New Fast Algorithm for Linearly Unmixing Hyperspectral Images; *TGRS Dec. 2015 6752-6765*
- Guida, R.**, see Iervolino, P., *TGRS May 2015 2295-2307*
- Gunn, G.E.**, see Atwood, D.K., *TGRS Nov. 2015 5972-5982*
- Guo, H.**, see Wu, W., *TGRS Oct. 2015 5583-5599*
- Guo, J.**, see Shi, J., *TGRS June 2015 3452-3459*
- Guo, L.**, see Han, J., *TGRS June 2015 3325-3337*
- Guo, L.**, see Wang, C., *TGRS June 2015 3442-3451*
- Guo, L.**, see Cheng, G., *TGRS Aug. 2015 4238-4249*
- Guo, L.**, see Chang, L., *TGRS May 2015 2612-2620*
- Guo, L.**, and Xu, R., An Efficient Multiregion FEM-BIM for Composite Scattering From an Arbitrary Dielectric Target Above Dielectric Rough Sea Surfaces; *TGRS July 2015 3885-3896*
- Guo, P.**, see Tang, S., *TGRS Dec. 2015 6529-6546*
- Guo, Q.**, and Wang, X., Spatial-Response Matched Filter and Its Application in Radiometric Accuracy Improvement of FY-2 Satellite Thermal Infrared Band; *TGRS May 2015 2397-2408*
- Guo, R.**, see Zhang, S., *TGRS Feb. 2015 687-709*
- Guo, W.**, see Wan, J., *TGRS Sept. 2015 5229-5236*
- Guo, Y.**, see Ma, L., *TGRS May 2015 2832-2844*
- Gutierrez, D.J.**, see Hall, J.L., *TGRS Oct. 2015 5447-5457*
- Guzzi, D.**, see Barducci, A., *TGRS Feb. 2015 738-751*
- H**
- Hackett, E.E.**, Fullerton, A.M., Merrill, C.F., and Fu, T.C., Comparison of Incoherent and Coherent Wave Field Measurements Using Dual-Polarized Pulse-Doppler X-Band Radar; *TGRS Nov. 2015 5926-5942*
- Hackwell, J.A.**, see Hall, J.L., *TGRS Oct. 2015 5447-5457*
- Hajnsek, I.**, see Marino, A., *TGRS Aug. 2015 4578-4595*
- Hajnsek, I.**, see Kugler, F., *TGRS Oct. 2015 5294-5311*
- Hajnsek, I.**, see Sanjuan-Ferrer, M.J., *TGRS Nov. 2015 6293-6307*
- Halimi, A.**, Mailhes, C., Tourneret, J., Boy, F., and Moreau, T., Including Antenna Mispointing in a Semi-Analytical Model for Delay/Doppler Altimetry; *TGRS Feb. 2015 598-608*
- Hall, J.L.**, Boucher, R.H., Buckland, K.N., Gutierrez, D.J., Hackwell, J.A., Johnson, B.R., Keim, E.R., Moreno, N.M., Ramsey, M.S., Sivjee, M.G., Tratt, D.M., Warren, D.W., and Young, S.J., MAGI: A New High-Performance Airborne Thermal-Infrared Imaging Spectrometer for Earth Science Applications; *TGRS Oct. 2015 5447-5457*
- Hallikainen, M.T.**, see von Lerber, A., *TGRS Feb. 2015 724-737*
- Hallikainen, M.T.**, see Cohen, J., *TGRS Dec. 2015 6593-6607*
- Han, G.**, Gong, W., Lin, H., Ma, X., and Xiang, Z., Study on Influences of Atmospheric Factors on Vertical CO₂ Profile Retrieving From Ground-Based DIAL at 1.6 μm ; *TGRS June 2015 3221-3234*
- Han, J.**, Zhang, D., Cheng, G., Guo, L., and Ren, J., Object Detection in Optical Remote Sensing Images Based on Weakly Supervised Learning and High-Level Feature Learning; *TGRS June 2015 3325-3337*
- Han, J.**, see Zabalza, J., *TGRS Aug. 2015 4418-4433*
- Han, J.**, see Cheng, G., *TGRS Aug. 2015 4238-4249*
- Han, M.**, Yang, K., Qin, J., Jin, R., Ma, Y., Wen, J., Chen, Y., Zhao, L., Lazhu, and Tang, W., An Algorithm Based on the Standard Deviation of Passive Microwave Brightness Temperatures for Monitoring Soil Surface Freeze/Thaw State on the Tibetan Plateau; *TGRS May 2015 2775-2783*
- Han, Y.**, Bovolo, F., and Bruzzone, L., An Approach to Fine Coregistration Between Very High Resolution Multispectral Images Based on Registration Noise Distribution; *TGRS Dec. 2015 6650-6662*
- Haney, C.O.**, see Doelling, D.R., *TGRS March 2015 1513-1526*
- Haney, C.O.**, see Doelling, D.R., *TGRS Aug. 2015 4520-4535*
- Hansen, R.E.**, see Landmark, K., *TGRS Nov. 2015 6252-6273*
- Hanssen, R.F.**, see Jiang, M., *TGRS March 2015 1213-1224*
- Hanssen, R.F.**, see Morishita, Y., *TGRS Aug. 2015 4275-4283*
- Hanssen, R.F.**, see Morishita, Y., *TGRS Feb. 2015 1096-1104*
- Hanssen, R.F.**, see Gong, W., *TGRS July 2015 4033-4044*
- Hanssen, R.F.**, see Mahapatra, P.S., *TGRS July 2015 3669-3680*
- Hao, S.**, see Zhang, Y., *TGRS Dec. 2015 6372-6384*
- Harbeck, J.P.**, see Yi, D., *TGRS March 2015 1403-1410*
- Harbeck, J.P.**, see Onana, V.d.P., *TGRS Jan. 2015 51-69*
- Harris, A.**, see Koner, P.K., *TGRS Nov. 2015 5872-5888*
- Hartzell, P.J.**, Glennie, C.L., and Finnegan, D.C., Empirical Waveform Decomposition and Radiometric Calibration of a Terrestrial Full-Waveform Laser Scanner; *TGRS Jan. 2015 162-172*
- Hawkins, B.P.**, see Fore, A.G., *TGRS June 2015 3481-3491*
- He, B.**, see Quan, X., *TGRS Dec. 2015 6507-6517*
- He, G.**, see Long, T., *TGRS Aug. 2015 4554-4567*
- He, L.**, Li, Y., Li, X., and Wu, W., Spectral-Spatial Classification of Hyperspectral Images via Spatial Translation-Invariant Wavelet-Based Sparse Representation; *TGRS May 2015 2696-2712*
- He, S.**, see Shu, Y., *TGRS Nov. 2015 6148-6162*
- He, T.**, see Wang, D., *TGRS Oct. 2015 5519-5529*
- He, X.**, see Chang, L., *TGRS May 2015 2612-2620*
- He, X.**, see Xia, J., *TGRS May 2015 2532-2546*
- He, X.**, see Xia, J., *TGRS Sept. 2015 4768-4786*
- He, Y.**, see Chen, X., *TGRS April 2015 2225-2240*
- He, Y.**, see Zhu, Y., *TGRS Sept. 2015 5021-5035*
- He, Z.**, see Yang, H., *TGRS Oct. 2015 5327-5337*
- He, Z.**, see Yang, G., *TGRS Nov. 2015 6008-6021*
- Heck, B.**, see Alshawaf, F., *TGRS July 2015 3764-3771*
- Heagy, E.**, see Normand, J.C.L., *TGRS Dec. 2015 6356-6371*
- Heimila, K.**, see Cohen, J., *TGRS Dec. 2015 6593-6607*
- Heipke, C.**, see Hoberg, T., *TGRS Feb. 2015 659-673*
- Henke, D.**, Mendez Dominguez, E., Small, D., Schaepman, M.E., and Meier, E., Moving Target Tracking in Single- and Multichannel SAR; *TGRS June 2015 3146-3159*
- Hensley, S.**, see Fore, A.G., *TGRS June 2015 3481-3491*
- Hensley, S.**, see Lavallo, M., *TGRS Sept. 2015 4752-4767*
- Hensley, S.**, see Oveisgharan, S., *TGRS Dec. 2015 6561-6572*
- Hernandez-Cabronero, M.**, see Blanes, I., *TGRS June 2015 3361-3372*
- Hestir, E.L.**, see Ampe, E.M., *TGRS Feb. 2015 869-882*
- Heylen, R.**, see Karami, A., *TGRS Sept. 2015 5054-5066*
- Heymsfield, G.M.**, see McLinden, M.L., *TGRS Dec. 2015 6639-6649*
- Hinz, S.**, see Alshawaf, F., *TGRS July 2015 3764-3771*
- Hirata, N.**, see Yamamoto, S., *TGRS Feb. 2015 710-723*
- Hirose, A.**, see Danuirdjo, D., *TGRS March 2015 1427-1439*
- Hirose, A.**, see Shang, F., *TGRS Aug. 2015 4536-4547*
- Hirose, A.**, see Danuirdjo, D., *TGRS July 2015 4116-4126*
- Hislop, G.**, Permittivity Estimation Using Coupling of Commercial Ground Penetrating Radars; *TGRS Aug. 2015 4157-4164*
- Ho Tong Minh, D.**, Tebaldini, S., Rocca, F., Le Toan, T., Villard, L., and Dubois-Fernandez, P.C., Capabilities of BIOMASS Tomography for Investigating Tropical Forests; *TGRS Feb. 2015 965-975*
- Hobbs, M.C.**, see Chang, C., *TGRS March 2015 1626-1637*
- Hoberg, T.**, Rottensteiner, F., Feitosa, R.Q., and Heipke, C., Conditional Random Fields for Multitemporal and Multiscale Classification of Optical Satellite Imagery; *TGRS Feb. 2015 659-673*
- Hoffner, J.**, see Eixmann, R., *TGRS Aug. 2015 4548-4553*

Hofton, M., see Yi, D., *TGRS March 2015 1403-1410*
Holmes, T.R.H., see de Nijs, A.H.A., *TGRS Sept. 2015 5148-5159*
Homayouni, S., see McNairn, H., *TGRS May 2015 2784-2801*
Hong, C., see Lee, C., *TGRS March 2015 1186-1194*
Hong, R., see Liu, J., *TGRS March 2015 1394-1402*
Hong, W., see Li, Y., *TGRS June 2015 3160-3177*
Hong, W., see Zhao, Y., *TGRS May 2015 2765-2774*
Hong, Y., see Chen, S., *TGRS Aug. 2015 4434-4443*
Hong, Y., see Chen, S., *TGRS Aug. 2015 4444-4456*
Hong, Y., see Shen, X., *TGRS July 2015 4079-4090*
Hongxing, H., Bioucas-Dias, J.M., and Katkovnik, V., Interferometric Phase Image Estimation via Sparse Coding in the Complex Domain; *TGRS May 2015 2587-2602*
Honkavaara, E., see Liang, X., *TGRS Sept. 2015 5117-5132*
Hoogetboom, P., see Foiss, F., *TGRS Sept. 2015 5009-5020*
Horstmann, J., Falchetti, S., Wackerman, C., Maresca, S., Caruso, M.J., and Graber, H.C., Tropical Cyclone Winds Retrieved From C-Band Cross-Polarized Synthetic Aperture Radar; *TGRS May 2015 2887-2898*
Horstmann, J., see Vivone, G., *TGRS July 2015 3931-3949*
Horton, K.G., see Stepanian, P.M., *TGRS Dec. 2015 6518-6528*
Hosseini, M., see McNairn, H., *TGRS May 2015 2784-2801*
Hosseini, S.A., see Soltani-Farani, A., *TGRS Jan. 2015 527-541*
Hou, B., see Xiong, T., *TGRS Feb. 2015 1016-1028*
Hsu, Y., see Rau, J., *TGRS March 2015 1304-1319*
Hu, C., see Barnes, B.B., *TGRS April 2015 1761-1772*
Hu, C., see Zeng, T., *TGRS Oct. 2015 5760-5773*
Hu, C., see Zeng, T., *TGRS Nov. 2015 5835-5852*
Hu, D., see Meng, D., *TGRS May 2015 2510-2519*
Hu, J., see Chen, S., *TGRS Aug. 2015 4434-4443*
Hu, J., see Chen, S., *TGRS Aug. 2015 4444-4456*
Hu, J., see Zhang, G., *TGRS Nov. 2015 5861-5871*
Hu, X., see Chen, S., *TGRS Aug. 2015 4434-4443*
Hu, Z., see Chen, Y., *TGRS Aug. 2015 4616-4626*
Hua, F., see Sui, H., *TGRS Nov. 2015 6058-6072*
Huang, B., see Song, H., *TGRS March 2015 1195-1204*
Huang, B., see Wu, B., *TGRS Dec. 2015 6791-6803*
Huang, G., see Tang, J., *TGRS March 2015 1174-1185*
Huang, H., and Yang, M., Dimensionality Reduction of Hyperspectral Images With Sparse Discriminant Embedding; *TGRS Sept. 2015 5160-5169*
Huang, L., see Zeng, Z., *TGRS Jan. 2015 15-24*
Huang, Q., Zhou, H., Dong, S., and Xu, S., Parallel Branch-Cut Algorithm Based on Simulated Annealing for Large-Scale Phase Unwrapping; *TGRS July 2015 3833-3846*
Huang, T.S., see Wang, Z., *TGRS March 2015 1161-1173*
Huang, W., see Zhang, G., *TGRS Feb. 2015 933-941*
Huang, W., see An, J., *TGRS Jan. 2015 567-577*
Huang, W., see Jiang, Y., *TGRS July 2015 3985-3995*
Huang, X., see Li, J., *TGRS March 2015 1592-1606*
Huang, X., see Fang, W., *TGRS Feb. 2015 942-951*
Huang, X., see Zhang, Y., *TGRS Feb. 2015 976-987*
Huang, X., Liu, H., and Zhang, L., Spatiotemporal Detection and Analysis of Urban Villages in Mega City Regions of China Using High-Resolution Remotely Sensed Imagery; *TGRS July 2015 3639-3657*
Huang, Y., see Chen, X., *TGRS April 2015 2225-2240*
Huber, E., see Schmelzbach, C., *TGRS Sept. 2015 5209-5217*
Huo, H., see Chen, X., *TGRS Sept. 2015 4837-4851*
Hurley, J., see Touzi, R., *TGRS Oct. 2015 5403-5424*
Huuskonen-Snicker, E., Mikhnev, V.A., and Olkkonen, M., Discrimination of Buried Objects in Impulse GPR Using Phase Retrieval Technique; *TGRS Feb. 2015 1001-1007*
Huybers, P., see Kachouie, N.N., *TGRS March 2015 1135-1149*
Hyppa, J., see Liang, X., *TGRS Sept. 2015 5117-5132*

I

Iannini, L., see Villa, A., *TGRS Feb. 2015 674-686*
Iervolino, P., Guida, R., Iodice, A., and Riccio, D., Flooding Water Depth Estimation With High-Resolution SAR; *TGRS May 2015 2295-2307*
Iinatti, T., see McKay-Bukowski, D., *TGRS March 2015 1440-1451*
Iiisci, A., and Bruzzone, L., A System for the Automatic Classification of Ice Sheet Subsurface Targets in Radar Sounding Data; *TGRS June 2015 3260-3277*
Imaoka, K., see Okuyama, A., *TGRS Aug. 2015 4568-4577*

Imperatore, P., Pepe, A., and Lanari, R., Multichannel Phase Unwrapping: Problem Topology and Dual-Level Parallel Computational Model; *TGRS Oct. 2015 5774-5793*
Indu, J., and Nagesh Kumar, D., Evaluation of Precipitation Retrievals From Orbital Data Products of TRMM Over a Subtropical Basin in India; *TGRS Dec. 2015 6429-6442*
Inglada, J., see Lassalle, P., *TGRS Oct. 2015 5473-5485*
Ioana, C., see Anghel, A., *TGRS Aug. 2015 4379-4393*
Iodice, A., see Di Martino, G., *TGRS June 2015 3110-3123*
Iodice, A., see Iervolino, P., *TGRS May 2015 2295-2307*
Iodice, A., see Amitrano, D., *TGRS Jan. 2015 117-133*
Iqbal, J., see Mahboob, M.A., *TGRS Nov. 2015 5824-5834*
Iribarne, L., see Espinola, M., *TGRS Feb. 2015 795-809*
Isleifson, D., see Landy, J.C., *TGRS March 2015 1271-1286*
Isleifson, D., see Komarov, A.S., *TGRS July 2015 4063-4078*

J

Jaakkola, A., see Liang, X., *TGRS Sept. 2015 5117-5132*
Jackson, T.J., see McNairn, H., *TGRS May 2015 2784-2801*
Jackson, T.J., see Martens, B., *TGRS July 2015 4091-4103*
Jacquemoud, S., see Ferraz, A., *TGRS Dec. 2015 6776-6790*
Jadoon, K.Z., see Jonard, F., *TGRS June 2015 3095-3109*
Jager, M., see Deledalle, C., *TGRS April 2015 2021-2038*
Jameson, A.R., A Bayesian Method for Upsizing Single Disdrometer Drop Size Counts for Rain Physics Studies and Areal Applications; *TGRS Jan. 2015 335-343*
Jang, W., Ku, Z., Urbas, A., Derov, J., and Noyola, M.J., Plasmonic Superpixel Sensor for Compressive Spectral Sensing; *TGRS June 2015 3471-3480*
Jansen, M., see Ampe, E.M., *TGRS Feb. 2015 869-882*
Jaruwatanadilok, S., see Truong-Loi, M., *TGRS April 2015 1718-1727*
Jensen, R.E., see Romeiser, R., *TGRS March 2015 1320-1345*
Jezek, K.C., Johnson, J.T., Drinkwater, M.R., Macelloni, G., Tsang, L., Aksoy, M., and Durand, M., Radiometric Approach for Estimating Relative Changes in Intraglaciers Average Temperature; *TGRS Jan. 2015 134-143*
Jhan, J., see Rau, J., *TGRS March 2015 1304-1319*
Ji, D., see Xiong, C., *TGRS Sept. 2015 4862-4875*
Jia, K., Liang, S., Liu, S., Li, Y., Xiao, Z., Yao, Y., Jiang, B., Zhao, X., Wang, X., Xu, S., and Cui, J., Global Land Surface Fractional Vegetation Cover Estimation Using General Regression Neural Networks From MODIS Surface Reflectance; *TGRS Sept. 2015 4787-4796*
Jia, L., Li, M., Wu, Y., Zhang, P., Liu, G., Chen, H., and An, L., SAR Image Change Detection Based on Iterative Label-Information Composite Kernel Supervised by Anisotropic Texture; *TGRS July 2015 3960-3973*
Jia, S., Shen, L., and Li, Q., Gabor Feature-Based Collaborative Representation for Hyperspectral Imagery Classification; *TGRS Feb. 2015 1118-1129*
Jia, X., see Gu, Y., *TGRS Oct. 2015 5312-5326*
Jia, X., see Wang, J., *TGRS Sept. 2015 4910-4921*
Jia, X., see Li, X., *TGRS Sept. 2015 4985-4996*
Jia, X., see Zhang, G., *TGRS Nov. 2015 5861-5871*
Jiang, B., see Jia, K., *TGRS Sept. 2015 4787-4796*
Jiang, J., see Ma, J., *TGRS Dec. 2015 6469-6481*
Jiang, L., see Kou, X., *TGRS Nov. 2015 6048-6057*
Jiang, M., Ding, X., Hanssen, R.F., Malhotra, R., and Chang, L., Fast Statistically Homogeneous Pixel Selection for Covariance Matrix Estimation for Multitemporal InSAR; *TGRS March 2015 1213-1224*
Jiang, Y., see Zhang, G., *TGRS Feb. 2015 933-941*
Jiang, Y., Zhang, G., Chen, P., Li, D., Tang, X., and Huang, W., Systematic Error Compensation Based on a Rational Function Model for Ziyuan1-02C; *TGRS July 2015 3985-3995*
Jiang, Y., see Li, C., *TGRS Oct. 2015 5388-5402*
Jiao, C., and Zare, A., Functions of Multiple Instances for Learning Target Signatures; *TGRS Aug. 2015 4670-4686*
Jiao, L., see Shi, C., *TGRS June 2015 3417-3431*
Jiao, L., see Li, Y., *TGRS Aug. 2015 4712-4723*
Jiao, L., see Feng, J., *TGRS May 2015 2956-2969*
Jiao, L., see Yang, S., *TGRS Nov. 2015 5943-5957*
Jiao, W., see Long, T., *TGRS Aug. 2015 4554-4567*
Jieying, H., Shengwei, Z., and Zhenzhan, W., Advanced Microwave Atmospheric Sounder (AMAS) Channel Specifications and T/V Calibration Results on FY-3C Satellite; *TGRS Jan. 2015 481-493*
Jimenez, C., see Prigent, C., *TGRS March 2015 1364-1373*
Jimenez, C., see Rodriguez-Fernandez, N.J., *TGRS Nov. 2015 5991-6007*

- Jimenez-Munoz, J.C.**, see Julien, Y., *TGRS Aug. 2015 4231-4237*
- Jin, H.**, and Eklundh, L., *In Situ Calibration of Light Sensors for Long-Term Monitoring of Vegetation; TGRS June 2015 3405-3416*
- Jin, L.**, see Yang, S., *TGRS Nov. 2015 5943-5957*
- Jin, R.**, see Han, M., *TGRS May 2015 2775-2783*
- Jin, S.**, see Chang, L., *TGRS May 2015 2612-2620*
- Jin, T.**, see Sun, S., *TGRS Jan. 2015 557-566*
- Jin, Y.**, see Wang, F., *TGRS June 2015 3432-3441*
- Jin, Y.**, see Xu, F., *TGRS June 2015 3042-3054*
- Jin, Y.**, see Ye, H., *TGRS Sept. 2015 4922-4932*
- Jin, Z.**, see Wu, A., *TGRS Sept. 2015 4741-4751*
- Jin, Z.**, see Lukashin, C., *TGRS Dec. 2015 6703-6709*
- Jing, X.**, see Chen, W., *TGRS May 2015 2925-2934*
- Johnsen, H.**, see Kramer, T., *TGRS Dec. 2015 6407-6418*
- Johnsen, H.**, see Said, F., *TGRS Dec. 2015 6632-6638*
- Johnson, B.R.**, see Hall, J.L., *TGRS Oct. 2015 5447-5457*
- Johnson, J.**, see Guerin, C., *TGRS Nov. 2015 6308-6314*
- Johnson, J.T.**, see Jezek, K.C., *TGRS Jan. 2015 134-143*
- Jonard, F.**, Wehermuller, L., Schwank, M., Jadoon, K.Z., Vereecken, H., and Lambot, S., Estimation of Hydraulic Properties of a Sandy Soil Using Ground-Based Active and Passive Microwave Remote Sensing; *TGRS June 2015 3095-3109*
- Jonard, M.**, see Andre, F., *TGRS Feb. 2015 828-840*
- Jones, C.E.**, see Fore, A.G., *TGRS June 2015 3481-3491*
- Jones, L.A.**, see Du, J., *TGRS May 2015 2520-2531*
- Joshi, M.V.**, see Patel, R.C., *TGRS April 2015 1728-1736*
- Joshi, M.V.**, see Upla, K.P., *TGRS June 2015 3210-3220*
- Juan, J.M.**, see Rovira-Garcia, A., *TGRS Aug. 2015 4596-4604*
- Judge, J.**, see Chakrabarti, S., *TGRS Jan. 2015 85-101*
- Judge, J.**, see van Emmerik, T., *TGRS July 2015 3855-3869*
- Julien, Y.**, Sobrino, J.A., Mattar, C., and Jimenez-Munoz, J.C., Near-Real-Time Estimation of Water Vapor Column From MSG-SEVIRI Thermal Infrared Bands: Implications for Land Surface Temperature Retrieval; *TGRS Aug. 2015 4231-4237*
- Jung, H.**, and Lee, W., An Improvement of Ionospheric Phase Correction by Multiple-Aperture Interferometry; *TGRS Sept. 2015 4952-4960*
- Jung, H.**, Lu, Z., Shepherd, A., and Wright, T., Simulation of the SuperSAR Multi-Azimuth Synthetic Aperture Radar Imaging System for Precise Measurement of Three-Dimensional Earth Surface Displacement; *TGRS Nov. 2015 6196-6206*
- Junttila, V.**, Kauranne, T., Finley, A.O., and Bradford, J.B., Linear Models for Airborne-Laser-Scanning-Based Operational Forest Inventory With Small Field Sample Size and Highly Correlated LiDAR Data; *TGRS Oct. 2015 5600-5612*
- Jupp, D.**, see Gao, H., *TGRS July 2015 4127-4137*
- K**
- Kaartinen, H.**, see Liang, X., *TGRS Sept. 2015 5117-5132*
- Kachouie, N.N.**, Gerke, T., Huybers, P., and Schwartzman, A., Nonparametric Regression for Estimation of Spatiotemporal Mountain Glacier Retreat From Satellite Images; *TGRS March 2015 1135-1149*
- Kaleschke, L.**, see Beitsch, A., *TGRS April 2015 1985-1996*
- Kalle, A.**, MTF-Adjusted Pansharpening Approach Based on Coupled Multiresolution Decompositions; *TGRS June 2015 3124-3145*
- Kampfer, N.**, see Fernandez, S., *TGRS Jan. 2015 344-351*
- Kanevski, M.**, see Matasci, G., *TGRS July 2015 3550-3564*
- Kang, E.**, see Zhu, Y., *TGRS Sept. 2015 5021-5035*
- Kang, X.**, Li, S., Fang, L., and Benediktsson, J.A., Intrinsic Image Decomposition for Feature Extraction of Hyperspectral Images; *TGRS April 2015 2241-2253*
- Kang, X.**, see Fang, L., *TGRS Aug. 2015 4186-4201*
- Kang, X.**, Li, S., Fang, L., Li, M., and Benediktsson, J.A., Extended Random Walker-Based Classification of Hyperspectral Images; *TGRS Jan. 2015 144-153*
- Kapruziak, M.**, see Klesk, P., *TGRS July 2015 3996-4009*
- Karaev, V.Y.**, see Titchenko, Y.A., *TGRS Aug. 2015 4340-4347*
- Karami, A.**, Heylen, R., and Scheunders, P., Band-Specific Shearlet-Based Hyperspectral Image Noise Reduction; *TGRS Sept. 2015 5054-5066*
- Karimkashi, S.**, see Lei, L., *TGRS Aug. 2015 4313-4327*
- Karimkashi, S.**, and Zhang, G., Optimizing Radiation Patterns of a Cylindrical Polarimetric Phased-Array Radar for Multimissions; *TGRS May 2015 2810-2818*
- Karki, M.**, see Basu, S., *TGRS Oct. 2015 5690-5708*
- Karoui, I.**, Quidu, I., and Legris, M., Automatic Sea-Surface Obstacle Detection and Tracking in Forward-Looking Sonar Image Sequences; *TGRS Aug. 2015 4661-4669*
- Karoui, I.**, Quidu, I., and Legris, M., Corrections to "Automatic Sea-Surface Obstacle Detection and Tracking in Forward-Looking Sonar Image Sequences" [Aug 15 4661-4669]; *TGRS Nov. 2015 6315*
- Katkovnik, V.**, see Hongxing, H., *TGRS May 2015 2587-2602*
- Kauranne, T.**, see Junttila, V., *TGRS Oct. 2015 5600-5612*
- Kazmierczak, R.**, see Bakula, M., *TGRS Feb. 2015 1029-1038*
- Kazumori, M.**, Shibata, A., and English, S.J., Asymmetric Features of Oceanic Microwave Brightness Temperature in High Surface Wind Speed Condition; *TGRS Nov. 2015 5901-5914*
- Keim, E.R.**, see Hall, J.L., *TGRS Oct. 2015 5447-5457*
- Kern, S.**, see Beitsch, A., *TGRS April 2015 1985-1996*
- Kero, A.**, see McKay-Bukowski, D., *TGRS March 2015 1440-1451*
- Kerr, Y.**, see Leduc-Leballeur, M., *TGRS July 2015 4022-4032*
- Kerr, Y.H.**, see Verhoest, N.E.C., *TGRS June 2015 3507-3521*
- Kerr, Y.H.**, see Mialon, A., *TGRS June 2015 3084-3094*
- Kerr, Y.H.**, see Rodriguez-Fernandez, N.J., *TGRS Nov. 2015 5991-6007*
- Keymeulen, D.**, see Bue, B.D., *TGRS Dec. 2015 6419-6428*
- Khan, M.M.**, see Abdullah, S.M.U., *TGRS July 2015 3974-3984*
- Khazaal, A.**, Leroux, D.J., Cabot, F., Richaume, P., and Anterrieu, E., Effect of the Polarization Leakage on the SMOS Image Reconstruction Algorithm: Validation Using Ocean Model and *In Situ* Soil Moisture Data; *TGRS Sept. 2015 4961-4971*
- Khenchaf, A.**, see Fiche, A., *TGRS Aug. 2015 4650-4660*
- Khlopenkov, K.V.**, Doelling, D.R., and Okuyama, A., MTSAT-1R Visible Imager Point Spread Function Correction, Part II: Theory; *TGRS March 2015 1504-1512*
- Khlopenkov, K.V.**, see Doelling, D.R., *TGRS March 2015 1513-1526*
- Kim, J.**, Younis, M., Moreira, A., and Wiesbeck, W., Spaceborne MIMO Synthetic Aperture Radar for Multimodal Operation; *TGRS May 2015 2453-2466*
- Kim, J.S.**, Papathanassiou, K.P., Scheiber, R., and Quegan, S., Correcting Distortion of Polarimetric SAR Data Induced by Ionospheric Scintillation; *TGRS Dec. 2015 6319-6335*
- Kim, S.**, see Narvekar, P.S., *TGRS June 2015 3492-3506*
- Kim, S.**, see McNairn, H., *TGRS May 2015 2784-2801*
- Kim, W.**, Ahn, J., and Park, Y., Correction of Stray-Light-Driven Interslot Radiometric Discrepancy (ISR) Present in Radiometric Products of Geostationary Ocean Color Imager (GOCI); *TGRS Oct. 2015 5458-5472*
- Kimball, J.S.**, see Du, J., *TGRS May 2015 2520-2531*
- Kimball, J.S.**, see Du, J., *TGRS Jan. 2015 542-556*
- Kimura, Y.**, see Ebihara, S., *TGRS April 2015 1842-1854*
- King, M.D.**, see Ball, C.P., *TGRS Oct. 2015 5377-5387*
- Kireev, S.**, see Daniels, T., *TGRS Dec. 2015 6336-6343*
- Klesk, P.**, Godziuk, A., Kapruziak, M., and Olech, B., Fast Analysis of C-Scans From Ground Penetrating Radar via 3-D Haar-Like Features With Application to Landmine Detection; *TGRS July 2015 3996-4009*
- Knaeps, E.**, see Ampe, E.M., *TGRS Feb. 2015 869-882*
- Kneubuhler, M.**, see Weyermann, J., *TGRS Nov. 2015 5814-5823*
- Knopfler, A.**, see Alshawaf, F., *TGRS July 2015 3764-3771*
- Koay, J.Y.**, see Teng, K.C., *TGRS June 2015 3250-3259*
- Koenig, L.S.**, see Onana, V.d.P., *TGRS Jan. 2015 51-69*
- Koistinen, J.**, see von Lerber, A., *TGRS Feb. 2015 724-737*
- Kolassa, J.**, see Rodriguez-Fernandez, N.J., *TGRS Nov. 2015 5991-6007*
- Kollias, P.**, see Battaglia, A., *TGRS April 2015 2079-2085*
- Kollias, P.**, see Battaglia, A., *TGRS March 2015 1205-1212*
- Komarov, A.S.**, see Landy, J.C., *TGRS March 2015 1271-1286*
- Komarov, A.S.**, Isleifson, D., Barber, D.G., and Shafai, L., Modeling and Measurement of C-Band Radar Backscatter From Snow-Covered First-Year Sea Ice; *TGRS July 2015 4063-4078*
- Komarov, A.S.**, see Landy, J.C., *TGRS Sept. 2015 4887-4898*
- Koner, P.K.**, Harris, A., and Maturi, E., A Physical Deterministic Inverse Method for Operational Satellite Remote Sensing: An Application for Sea Surface Temperature Retrievals; *TGRS Nov. 2015 5872-5888*
- Kong, J.**, see Yao, Y., *TGRS May 2015 2373-2383*
- Kopp, G.**, see Lukashin, C., *TGRS Dec. 2015 6703-6709*
- Kopp, M.**, see Eixmann, R., *TGRS Aug. 2015 4548-4553*
- Korber, J.**, see Suresh, G., *TGRS Aug. 2015 4218-4230*
- Kornelsen, K.C.**, and Coulibaly, P., Design of an Optimal Soil Moisture Monitoring Network Using SMOS Retrieved Soil Moisture; *TGRS July 2015 3950-3959*

- Kou, X.**, Chai, L., Jiang, L., Zhao, S., and Yan, S., Modeling of the Permittivity of Holly Leaves in Frozen Environments; *TGRS Nov. 2015 6048-6057*
- Kramer, T.**, Johnsen, H., and Brekke, C., Emulating Sentinel-1 Doppler Radial Ice Drift Measurements Using Envisat ASAR Data; *TGRS Dec. 2015 6407-6418*
- Kraus, D.**, see Fei, T., *TGRS Jan. 2015 505-518*
- Krieger, G.**, see Pinheiro, M., *TGRS April 2015 1876-1893*
- Krieger, G.**, see Martone, M., *TGRS Feb. 2015 583-597*
- Krueger, K.R.**, McClellan, J.H., and Scott, W.R., Efficient Algorithm Design for GPR Imaging of Landmines; *TGRS July 2015 4010-4021*
- Ku, Z.**, see Jang, W., *TGRS June 2015 3471-3480*
- Kuang, D.**, see Gillis, N., *TGRS April 2015 2066-2078*
- Kudryavtsev, V.**, see Skrunes, S., *TGRS April 2015 1958-1975*
- Kuei, C.**, see Liu, J., *TGRS March 2015 1394-1402*
- Kuester, T.**, see Segl, K., *TGRS Oct. 2015 5560-5571*
- Kugler, F.**, Lee, S., Hajnsek, I., and Papathanassiou, K.P., Forest Height Estimation by Means of Pol-InSAR Data Inversion: The Role of the Vertical Wavenumber; *TGRS Oct. 2015 5294-5311*
- Kukko, A.**, see Liang, X., *TGRS Sept. 2015 5117-5132*
- Kumar, P.**, see Dutta, D., *TGRS Sept. 2015 5133-5147*
- Kumar, U.**, see Basu, S., *TGRS Oct. 2015 5690-5708*
- Kummerow, C.D.**, see Ringerud, S., *TGRS April 2015 1935-1946*
- Kursinski, E.R.**, see Cardellach, E., *TGRS Jan. 2015 190-206*
- Kurtz, N.T.**, see Yi, D., *TGRS March 2015 1403-1410*
- Kusche, J.**, see Uebbing, B., *TGRS April 2015 2211-2224*
- Kweon, S.**, and Oh, Y., A Modified Water-Cloud Model With Leaf Angle Parameters for Microwave Backscattering From Agricultural Fields; *TGRS May 2015 2802-2809*
- Kwok, R.**, see Patel, A., *TGRS May 2015 2547-2564*
- Kwon, Y.**, Toure, A.M., Yang, Z., Rodell, M., and Picard, G., Error Characterization of Coupled Land Surface-Radiative Transfer Models for Snow Microwave Radiance Assimilation; *TGRS Sept. 2015 5247-5268*
- L**
- Lai, T.**, see Gao, G., *TGRS July 2015 3582-3599*
- Lai, T.**, see Gao, G., *TGRS July 2015 3565-3581*
- Lakshmi, B.**, see Malleswara Rao, J., *TGRS Nov. 2015 5853-5860*
- Lambot, S.**, see Jonard, F., *TGRS June 2015 3095-3109*
- Lambot, S.**, see Andre, F., *TGRS Feb. 2015 828-840*
- Lanari, R.**, see Pepe, A., *TGRS Aug. 2015 4394-4417*
- Lanari, R.**, see Perna, S., *TGRS May 2015 2713-2726*
- Lanari, R.**, see Imperatore, P., *TGRS Oct. 2015 5774-5793*
- Landmark, K.**, Schistad Solberg, A.H., Albrechtsen, F., Austeng, A., and Hansen, R.E., A Radon-Transform-Based Image Noise Filter—With Applications to Multibeam Bathymetry; *TGRS Nov. 2015 6252-6273*
- Landy, J.C.**, Isleifson, D., Komarov, A.S., and Barber, D.G., Parameterization of Centimeter-Scale Sea Ice Surface Roughness Using Terrestrial LiDAR; *TGRS March 2015 1271-1286*
- Landy, J.C.**, Komarov, A.S., and Barber, D.G., Numerical and Experimental Evaluation of Terrestrial LiDAR for Parameterizing Centimeter-Scale Sea Ice Surface Roughness; *TGRS Sept. 2015 4887-4898*
- Lang, F.**, Yang, J., and Li, D., Adaptive-Window Polarimetric SAR Image Speckle Filtering Based on a Homogeneity Measurement; *TGRS Oct. 2015 5435-5446*
- Lang, S.**, Liu, X., Zhao, B., Chen, X., and Fang, G., Focused Synthetic Aperture Radar Processing of Ice-Sounding Data Collected Over the East Antarctic Ice Sheet via the Modified Range Migration Algorithm Using Curvelets; *TGRS Aug. 2015 4496-4509*
- Lange, D.**, Rocadenbosch, F., Tiana-Alsina, J., and Frasier, S., Atmospheric Boundary Layer Height Estimation Using a Kalman Filter and a Frequency-Modulated Continuous-Wave Radar; *TGRS June 2015 3338-3349*
- Larson, K.M.**, see Chew, C.C., *TGRS May 2015 2755-2764*
- Lassalle, P.**, Inglada, J., Michel, J., Grizonnet, M., and Malik, J., A Scalable Tile-Based Framework for Region-Merging Segmentation; *TGRS Oct. 2015 5473-5485*
- Lastri, C.**, see Barducci, A., *TGRS Feb. 2015 738-751*
- Lavalle, M.**, and Hensley, S., Extraction of Structural and Dynamic Properties of Forests From Polarimetric-Interferometric SAR Data Affected by Temporal Decorrelation; *TGRS Sept. 2015 4752-4767*
- Lazhu**, see Han, M., *TGRS May 2015 2775-2783*
- Le Bastard, C.**, see Bourlier, C., *TGRS July 2015 4104-4115*
- Le Chevalier, F.**, see Fois, F., *TGRS Sept. 2015 5009-5020*
- Le Gall, A.**, see Biancheri-Astier, M., *TGRS Aug. 2015 4627-4637*
- Le Toan, T.**, see Ho Tong Minh, D., *TGRS Feb. 2015 965-975*
- Leduc-Leballeur, M.**, Picard, G., Mialon, A., Arnaud, L., Lefebvre, E., Posenti, P., and Kerr, Y., Modeling L-Band Brightness Temperature at Dome C in Antarctica and Comparison With SMOS Observations; *TGRS July 2015 4022-4032*
- Lee, C.**, Oh, J., Hong, C., and Youn, J., Automated Generation of a Digital Elevation Model Over Steep Terrain in Antarctica From High-Resolution Satellite Imagery; *TGRS March 2015 1186-1194*
- Lee, J.**, Ainsworth, T.L., Wang, Y., and Chen, K., Polarimetric SAR Speckle Filtering and the Extended Sigma Filter; *TGRS March 2015 1150-1160*
- Lee, J.**, Cai, X., Schonlieb, C., and Coomes, D.A., Nonparametric Image Registration of Airborne LiDAR, Hyperspectral and Photographic Imagery of Wooded Landscapes; *TGRS Nov. 2015 6073-6084*
- Lee, S.**, see Oudrari, H., *TGRS April 2015 2195-2210*
- Lee, S.**, McIntire, J., Oudrari, H., Schwarting, T., and Xiong, X., A New Method for Suomi-NPP VIIRS Day-Night Band On-Orbit Radiometric Calibration; *TGRS Jan. 2015 324-334*
- Lee, S.**, see Kugler, F., *TGRS Oct. 2015 5294-5311*
- Lee, W.**, see Jung, H., *TGRS Sept. 2015 4952-4960*
- Lee, Y.**, see Liu, J., *TGRS March 2015 1394-1402*
- Lefebvre, E.**, see Leduc-Leballeur, M., *TGRS July 2015 4022-4032*
- Legris, M.**, see Karoui, I., *TGRS Aug. 2015 4661-4669*
- Legris, M.**, see Karoui, I., *TGRS Nov. 2015 6315*
- Lehner, S.**, see Li, X., *TGRS Jan. 2015 578*
- Lehtinen, M.**, see McKay-Bukowski, D., *TGRS March 2015 1440-1451*
- Lei, L.**, Zhang, G., Doviak, R.J., and Karimkashi, S., Comparison of Theoretical Biases in Estimating Polarimetric Properties of Precipitation With Weather Radar Using Parabolic Reflector, or Planar and Cylindrical Arrays; *TGRS Aug. 2015 4313-4327*
- Lei, N.**, see Oudrari, H., *TGRS April 2015 2195-2210*
- Lei, N.**, Xiong, X., and Guenther, B., Modeling the Detector Radiometric Gains of the Suomi NPP VIIRS Reflective Solar Bands; *TGRS March 2015 1565-1573*
- Lei, N.**, Wang, Z., and Xiong, X., On-Orbit Radiometric Calibration of Suomi NPP VIIRS Reflective Solar Bands Through Observations of a Sunlit Solar Diffuser Panel; *TGRS Nov. 2015 5983-5990*
- Leigh, H.W.**, Magruder, L.A., Carabajal, C.C., Saba, J.L., and McGarry, J.F., Development of Onboard Digital Elevation and Relief Databases for ICESat-2; *TGRS April 2015 2011-2020*
- Leinonen, J.**, see von Lerber, A., *TGRS Feb. 2015 724-737*
- Lemmetyinen, J.**, see Cohen, J., *TGRS Dec. 2015 6593-6607*
- Lenhard, K.**, Baumgartner, A., Gege, P., Nevas, S., Nowy, S., and Sperling, A., Impact of Improved Calibration of a NEO HySpex VNIR-1600 Sensor on Remote Sensing of Water Depth; *TGRS Nov. 2015 6085-6098*
- Lenti, F.**, Nunziata, F., Estatico, C., and Migliaccio, M., Analysis of Reconstructions Obtained Solving l^p -Penalized Minimization Problems; *TGRS Sept. 2015 4876-4886*
- Leroux, D.**, see Mialon, A., *TGRS June 2015 3084-3094*
- Leroux, D.J.**, see Khazaal, A., *TGRS Sept. 2015 4961-4971*
- Leuschen, C.**, see Patel, A., *TGRS May 2015 2547-2564*
- Li, C.**, see Shi, G., *TGRS Feb. 2015 1039-1047*
- Li, C.**, see Sun, Z., *TGRS Jan. 2015 519-526*
- Li, C.**, Chen, X., and Jiang, Y., On Diverse Noises in Hyperspectral Unmixing; *TGRS Oct. 2015 5388-5402*
- Li, D.**, see Fang, W., *TGRS Feb. 2015 942-951*
- Li, D.**, see Zhang, G., *TGRS Feb. 2015 933-941*
- Li, D.**, Durand, M., and Margulis, S.A., Large-Scale High-Resolution Modeling of Microwave Radiance of a Deep Maritime Alpine Snowpack; *TGRS May 2015 2308-2322*
- Li, D.**, see Jiang, Y., *TGRS July 2015 3985-3995*
- Li, D.**, see Lang, F., *TGRS Oct. 2015 5435-5446*
- Li, D.**, see Chen, X., *TGRS Sept. 2015 4837-4851*
- Li, E.**, Femiani, J., Xu, S., Zhang, X., and Wonka, P., Robust Rooftop Extraction From Visible Band Images Using Higher Order CRF; *TGRS Aug. 2015 4483-4495*
- Li, F.**, see Zhang, Y., *TGRS Aug. 2015 4687-4699*
- Li, F.**, see Wang, Z., *TGRS May 2015 2409-2425*
- Li, H.**, see Zhang, C., *TGRS Jan. 2015 207-218*
- Li, H.**, see Zhang, P., *TGRS Sept. 2015 4933-4951*
- Li, J.**, see Guan, H., *TGRS March 2015 1527-1537*

- Li, J., *see* Yu, Y., *TGRS March 2015 1374-1386*
- Li, J., Huang, X., Gamba, P., Bioucas-Dias, J.M.B., Zhang, L., Benediktsson, J.A., and Plaza, A., Multiple Feature Learning for Hyperspectral Image Classification; *TGRS March 2015 1592-1606*
- Li, J., Dopido, I., Gamba, P., and Plaza, A., Complementarity of Discriminative Classifiers and Spectral Unmixing Techniques for the Interpretation of Hyperspectral Images; *TGRS May 2015 2899-2912*
- Li, J., *see* Xue, Z., *TGRS Jan. 2015 70-84*
- Li, J., *see* Zeng, Z., *TGRS Jan. 2015 15-24*
- Li, J., Zhang, H., and Zhang, L., Efficient Superpixel-Level Multitask Joint Sparse Representation for Hyperspectral Image Classification; *TGRS Oct. 2015 5338-5351*
- Li, J., Agathos, A., Zaharie, D., Bioucas-Dias, J.M., Plaza, A., and Li, X., Minimum Volume Simplex Analysis: A Fast Algorithm for Linear Hyperspectral Unmixing; *TGRS Sept. 2015 5067-5082*
- Li, J., *see* Shu, Y., *TGRS Nov. 2015 6148-6162*
- Li, J., *see* Xue, Z., *TGRS Nov. 2015 6114-6133*
- Li, K., *see* Wang, J., *TGRS Sept. 2015 5218-5228*
- Li, L., *see* Shi, C., *TGRS June 2015 3417-3431*
- Li, L., *see* Tong, X., *TGRS June 2015 3522-3534*
- Li, L., *see* Tong, X., *TGRS Aug. 2015 4143-4156*
- Li, L., *see* Li, Y., *TGRS Aug. 2015 4712-4723*
- Li, L., *see* Wang, L., *TGRS May 2015 2948-2955*
- Li, L., *see* McLinden, M.L., *TGRS Dec. 2015 6639-6649*
- Li, M., *see* Cheng, L., *TGRS June 2015 3235-3249*
- Li, M., *see* Wan, L., *TGRS May 2015 2384-2396*
- Li, M., *see* Kang, X., *TGRS Jan. 2015 144-153*
- Li, M., *see* Jia, L., *TGRS July 2015 3960-3973*
- Li, M., *see* Zhang, P., *TGRS Sept. 2015 4933-4951*
- Li, N., *see* Yang, H., *TGRS Oct. 2015 5327-5337*
- Li, P., *see* Chen, T., *TGRS July 2015 3749-3763*
- Li, P., *see* Yang, S., *TGRS Nov. 2015 5943-5957*
- Li, Q., *see* Jia, S., *TGRS Feb. 2015 1118-1129*
- Li, Q., *see* Tang, S., *TGRS Dec. 2015 6529-6546*
- Li, S., *see* Kang, X., *TGRS April 2015 2241-2253*
- Li, S., *see* Zabalza, J., *TGRS Aug. 2015 4418-4433*
- Li, S., *see* Fang, L., *TGRS Aug. 2015 4186-4201*
- Li, S., *see* Kang, X., *TGRS Jan. 2015 144-153*
- Li, S., *see* Basu, S., *TGRS Oct. 2015 5690-5708*
- Li, S., *see* Yin, H., *TGRS Oct. 2015 5734-5745*
- Li, S., *see* Fang, L., *TGRS Dec. 2015 6663-6674*
- Li, T., *see* Shi, S., *TGRS April 2015 2185-2194*
- Li, T., Yang, H., and Zhou, Z., RFI Suppression Based on Phase-Coded Stepped-Frequency Waveform in Through-Wall Radar; *TGRS March 2015 1583-1591*
- Li, T., *see* Tong, X., *TGRS Aug. 2015 4143-4156*
- Li, T., *see* Yang, H., *TGRS Oct. 2015 5327-5337*
- Li, W., and Du, Q., Collaborative Representation for Hyperspectral Anomaly Detection; *TGRS March 2015 1463-1474*
- Li, W., *see* Chen, S., *TGRS Aug. 2015 4444-4456*
- Li, W., Chen, C., Su, H., and Du, Q., Local Binary Patterns and Extreme Learning Machine for Hyperspectral Imagery Classification; *TGRS July 2015 3681-3693*
- Li, W., *see* Lin, C., *TGRS Oct. 2015 5530-5546*
- Li, X., *see* Xu, F., *TGRS June 2015 3042-3054*
- Li, X., *see* He, L., *TGRS May 2015 2696-2712*
- Li, X., and Lehner, S., Correction to "Algorithm for Sea Surface Wind Retrieval From TerraSAR-X and TanDEM-X Data" [May 14 2928-2939]; *TGRS Jan. 2015 578*
- Li, X., *see* Wu, W., *TGRS Oct. 2015 5583-5599*
- Li, X., *see* Ma, C., *TGRS Oct. 2015 5613-5623*
- Li, X., Yang, X., Zheng, W., Zhang, J.A., Pietrafesa, L.J., and Pichel, W.G., Synergistic Use of Satellite Observations and Numerical Weather Model to Study Atmospheric Occluded Fronts; *TGRS Sept. 2015 5269-5279*
- Li, X., Jia, X., Wang, L., and Zhao, K., On Spectral Unmixing Resolution Using Extended Support Vector Machines; *TGRS Sept. 2015 4985-4996*
- Li, X., *see* Li, J., *TGRS Sept. 2015 5067-5082*
- Li, X., *see* Yang, G., *TGRS Nov. 2015 6008-6021*
- Li, X., Dick, G., Lu, C., Ge, M., Nilsson, T., Ning, T., Wickert, J., and Schuh, H., Multi-GNSS Meteorology: Real-Time Retrieving of Atmospheric Water Vapor From BeiDou, Galileo, GLONASS, and GPS Observations; *TGRS Dec. 2015 6385-6393*
- Li, X., *see* Quan, X., *TGRS Dec. 2015 6507-6517*
- Li, Y., Hong, W., and Pottier, E., Topography Retrieval From Single-Pass POLSAR Data Based on the Polarization-Dependent Intensity Ratio; *TGRS June 2015 3160-3177*
- Li, Y., Gong, M., Jiao, L., Li, L., and Stolkin, R., Change-Detection Map Learning Using Matching Pursuit; *TGRS Aug. 2015 4712-4723*
- Li, Y., *see* Liu, B., *TGRS Feb. 2015 810-827*
- Li, Y., *see* He, L., *TGRS May 2015 2696-2712*
- Li, Y., *see* Xiong, X., *TGRS Oct. 2015 5709-5721*
- Li, Y., *see* Wang, Z., *TGRS Oct. 2015 5486-5494*
- Li, Y., *see* Jia, K., *TGRS Sept. 2015 4787-4796*
- Li, Y., *see* Zeng, T., *TGRS Dec. 2015 6718-6734*
- Li, Z., Wang, J., Wu, J., and Liu, Q.H., A Fast Radial Scanned Near-Field 3-D SAR Imaging System and the Reconstruction Method; *TGRS March 2015 1355-1363*
- Li, Z., Shi, W., Wang, Q., and Miao, Z., Extracting Man-Made Objects From High Spatial Resolution Remote Sensing Images via Fast Level Set Evolutions; *TGRS Feb. 2015 883-899*
- Li, Z., *see* Chen, W., *TGRS May 2015 2925-2934*
- Li, Z., Shi, W., Wang, Q., and Miao, Z., Correction to "Extracting Man-Made Objects From High Spatial Resolution Remote Sensing Images via Fast Level Set Evolutions" [Feb 15 883-899]; *TGRS Oct. 2015 5794*
- Li, Z., *see* Yu, Z., *TGRS Sept. 2015 4825-4836*
- Liang, S., *see* Xiao, Z., *TGRS June 2015 3178-3197*
- Liang, S., *see* Wang, D., *TGRS Oct. 2015 5519-5529*
- Liang, S., *see* Jia, K., *TGRS Sept. 2015 4787-4796*
- Liang, X., Wang, Y., Jaakkola, A., Kukko, A., Kaartinen, H., Hyypä, J., Honkavaara, E., and Liu, J., Forest Data Collection Using Terrestrial Image-Based Point Clouds From a Handheld Camera Compared to Terrestrial and Personal Laser Scanning; *TGRS Sept. 2015 5117-5132*
- Liang, X., *see* Wang, J., *TGRS Sept. 2015 5218-5228*
- Liao, G., *see* Zhang, X., *TGRS Feb. 2015 1105-1117*
- Licciardi, G.A., *see* Vivone, G., *TGRS April 2015 1997-2010*
- Licciardi, G.A., *see* Vivone, G., *TGRS May 2015 2565-2586*
- Lievens, H., *see* Verhoest, N.E.C., *TGRS June 2015 3507-3521*
- Lievens, H., *see* Martens, B., *TGRS July 2015 4091-4103*
- Lim, K.S., *see* Teng, K.C., *TGRS June 2015 3250-3259*
- Lin, C., Ma, W., Li, W., Chi, C., and Ambikapathi, A., Identifiability of the Simplex Volume Minimization Criterion for Blind Hyperspectral Unmixing: The No-Pure-Pixel Case; *TGRS Oct. 2015 5530-5546*
- Lin, C., *see* Tang, S., *TGRS Dec. 2015 6529-6546*
- Lin, H., *see* Han, G., *TGRS June 2015 3221-3234*
- Lin, K., *see* Zeng, T., *TGRS Oct. 2015 5760-5773*
- Lin, W., Portabella, M., Stoffelen, A., Verhoef, A., and Turiel, A., ASCAT Wind Quality Control Near Rain; *TGRS Aug. 2015 4165-4177*
- Lin, Y., *see* Liu, K., *TGRS April 2015 2254-2269*
- Lindberg, D.V., and Omre, H., Inference of the Transition Matrix in Convolved Hidden Markov Models and the Generalized Baum-Welch Algorithm; *TGRS Dec. 2015 6443-6456*
- Linger, M.E., and Goshtasby, A.A., Aerial Image Registration for Tracking; *TGRS April 2015 2137-2145*
- Liou, Y., *see* Liu, J., *TGRS March 2015 1394-1402*
- Liu, B., Yin, K., Li, Y., Shen, F., and Bao, Z., An Improvement in Multichannel SAR-GMTI Detection in Heterogeneous Environments; *TGRS Feb. 2015 810-827*
- Liu, B., Zhang, Z., Liu, X., and Yu, W., Representation and Spatially Adaptive Segmentation for PolSAR Images Based on Wedgelet Analysis; *TGRS Sept. 2015 4797-4809*
- Liu, C., *see* Chang, C., *TGRS March 2015 1626-1637*
- Liu, C., *see* Yang, J., *TGRS Feb. 2015 920-932*
- Liu, C., *see* Feng, X., *TGRS Sept. 2015 4852-4861*
- Liu, F., *see* Shi, C., *TGRS June 2015 3417-3431*
- Liu, F., *see* Feng, J., *TGRS May 2015 2956-2969*
- Liu, F., *see* Zeng, Z., *TGRS Jan. 2015 15-24*
- Liu, F., *see* Zeng, T., *TGRS Oct. 2015 5760-5773*
- Liu, G., *see* Jia, L., *TGRS July 2015 3960-3973*
- Liu, G., *see* Tang, S., *TGRS Dec. 2015 6529-6546*
- Liu, H., *see* Xiong, T., *TGRS Feb. 2015 1016-1028*
- Liu, H., Xing, M., and Bao, Z., A Cluster-Analysis-Based Noise-Robust Phase-Unwrapping Algorithm for Multibaseline Interferograms; *TGRS Jan. 2015 494-504*
- Liu, H., *see* Zhang, C., *TGRS Jan. 2015 207-218*
- Liu, H., *see* Huang, X., *TGRS July 2015 3639-3657*
- Liu, J., *see* Shi, S., *TGRS April 2015 2185-2194*

- Liu, J.**, Liou, Y., Wu, M., Lee, Y., Cheng, C., Kuei, C., and Hong, R., Analysis of Interactions Among Two Tropical Depressions and Typhoons Tembin and Bolaven (2012) in Pacific Ocean by Using Satellite Cloud Images; *TGRS March 2015 1394-1402*
- Liu, J.**, see Sun, L., *TGRS March 2015 1490-1503*
- Liu, J.**, see Chen, T., *TGRS July 2015 3749-3763*
- Liu, J.**, see Wan, X., *TGRS Oct. 2015 5746-5759*
- Liu, J.**, see Liang, X., *TGRS Sept. 2015 5117-5132*
- Liu, J.**, see Sui, H., *TGRS Nov. 2015 6058-6072*
- Liu, J.G.**, see Zhao, Y., *TGRS May 2015 2765-2774*
- Liu, K.**, Lin, Y., and Chen, C., Linear Spectral Mixture Analysis via Multiple-Kernel Learning for Hyperspectral Image Classification; *TGRS April 2015 2254-2269*
- Liu, N.**, see Chen, X., *TGRS April 2015 2225-2240*
- Liu, P.**, see Wan, J., *TGRS Sept. 2015 5229-5236*
- Liu, Q.**, see Song, H., *TGRS March 2015 1195-1204*
- Liu, Q.**, see Yang, L., *TGRS Feb. 2015 784-794*
- Liu, Q.H.**, see Li, Z., *TGRS March 2015 1355-1363*
- Liu, Q.H.**, see Zhang, W., *TGRS Jan. 2015 429-439*
- Liu, Q.H.**, see Yang, H., *TGRS Oct. 2015 5327-5337*
- Liu, Q.H.**, see Zheng, J., *TGRS Sept. 2015 4727-4740*
- Liu, S.**, see Tong, X., *TGRS June 2015 3522-3534*
- Liu, S.**, Bruzzone, L., Bovolo, F., Zanetti, M., and Du, P., Sequential Spectral Change Vector Analysis for Iteratively Discovering and Detecting Multiple Changes in Hyperspectral Images; *TGRS Aug. 2015 4363-4378*
- Liu, S.**, see Tong, X., *TGRS Aug. 2015 4143-4156*
- Liu, S.**, Bruzzone, L., Bovolo, F., and Du, P., Hierarchical Unsupervised Change Detection in Multitemporal Hyperspectral Images; *TGRS Jan. 2015 244-260*
- Liu, S.**, see Wu, Y., *TGRS Jan. 2015 440-452*
- Liu, S.**, see Gong, W., *TGRS July 2015 4033-4044*
- Liu, S.**, see Jia, K., *TGRS Sept. 2015 4787-4796*
- Liu, W.**, see Wang, P., *TGRS March 2015 1225-1235*
- Liu, X.**, see Lang, S., *TGRS Aug. 2015 4496-4509*
- Liu, X.**, see Liu, B., *TGRS Sept. 2015 4797-4809*
- Liu, Y.**, see Xu, G., *TGRS April 2015 2123-2136*
- Liu, Y.**, see Moon, T., *TGRS Aug. 2015 4328-4339*
- Liu, Y.**, see Zhang, S., *TGRS Feb. 2015 687-709*
- Liu, Y.**, see Tao, M., *TGRS May 2015 2481-2495*
- Liu, Z.**, see Cheng, G., *TGRS Aug. 2015 4238-4249*
- Liu, Z.**, see Zheng, J., *TGRS Sept. 2015 4727-4740*
- Lomas, M.R.**, see Quegan, S., *TGRS Aug. 2015 4284-4298*
- Lomas, M.R.**, see Quegan, S., *TGRS Aug. 2015 4299-4312*
- Long, D.G.**, see Duersch, M.I., *TGRS Jan. 2015 362-374*
- Long, D.G.**, see Zaugg, E.C., *TGRS July 2015 3600-3614*
- Long, T.**, Jiao, W., and He, G., RPC Estimation via ℓ_1 -Norm-Regularized Least Squares (L1LS); *TGRS Aug. 2015 4554-4567*
- Long, T.**, see Zeng, T., *TGRS Nov. 2015 5835-5852*
- Long, T.**, see Zeng, T., *TGRS Dec. 2015 6718-6734*
- Lopez, S.**, see Marrero, R., *TGRS July 2015 3772-3790*
- Lopez, S.**, see Guerra, R., *TGRS Dec. 2015 6752-6765*
- Lopez-Dekker, P.**, see De Zan, F., *TGRS Dec. 2015 6608-6616*
- Lopez-Sanchez, J.M.**, see Vicente-Guijalba, F., *TGRS June 2015 3278-3293*
- Lu, C.**, see Li, X., *TGRS Dec. 2015 6385-6393*
- Lu, X.**, see Yuan, Y., *TGRS June 2015 2975-2986*
- Lu, X.**, see Yuan, Y., *TGRS July 2015 3815-3832*
- Lu, Y.**, see Tang, Y.Y., *TGRS May 2015 2467-2480*
- Lu, Z.**, see Jung, H., *TGRS Nov. 2015 6196-6206*
- Ludeno, G.**, see Granstrom, K., *TGRS Dec. 2015 6617-6631*
- Lukashin, C.**, see Wu, A., *TGRS Sept. 2015 4741-4751*
- Lukashin, C.**, Jin, Z., Kopp, G., MacDonnell, D.G., and Thome, K., CLARREO Reflected Solar Spectrometer: Restrictions for Instrument Sensitivity to Polarization; *TGRS Dec. 2015 6703-6709*
- Luo, X.**, see Alshawaf, F., *TGRS July 2015 3764-3771*
- Luong, H.H.**, see Bue, B.D., *TGRS Dec. 2015 6419-6428*
- Ma, C.**, Li, X., and Wang, S., A Global Sensitivity Analysis of Soil Parameters Associated With Backscattering Using the Advanced Integral Equation Model; *TGRS Oct. 2015 5613-5623*
- Ma, J.**, see Wu, T., *TGRS Jan. 2015 102-116*
- Ma, J.**, Zhou, H., Zhao, J., Gao, Y., Jiang, J., and Tian, J., Robust Feature Matching for Remote Sensing Image Registration via Locally Linear Transforming; *TGRS Dec. 2015 6469-6481*
- Ma, L.**, see Cheng, L., *TGRS June 2015 3235-3249*
- Ma, L.**, Crawford, M.M., Yang, X., and Guo, Y., Local-Manifold-Learning-Based Graph Construction for Semisupervised Hyperspectral Image Classification; *TGRS May 2015 2832-2844*
- Ma, W.**, see Lin, C., *TGRS Oct. 2015 5530-5546*
- Ma, X.**, see Han, G., *TGRS June 2015 3221-3234*
- Ma, Y.**, see Han, M., *TGRS May 2015 2775-2783*
- MacArthur, A.**, see Ball, C.P., *TGRS Oct. 2015 5377-5387*
- MacDonnell, D.G.**, see Lukashin, C., *TGRS Dec. 2015 6703-6709*
- Macelloni, G.**, see Jezek, K.C., *TGRS Jan. 2015 134-143*
- Madhavan, S.**, see Xiong, X., *TGRS Oct. 2015 5709-5721*
- Madhavan, S.**, see Sun, J., *TGRS Oct. 2015 5722-5733*
- Magagi, R.**, see McNairn, H., *TGRS May 2015 2784-2801*
- Magruder, L.A.**, see Leigh, H.W., *TGRS April 2015 2011-2020*
- Mahapatra, P.S.**, Samiei-Esfahany, S., and Hanssen, R.F., Geodetic Network Design for InSAR; *TGRS July 2015 3669-3680*
- Mahboob, M.A.**, Iqbal, J., and Atif, I., Modeling and Simulation of Glacier Avalanche: A Case Study of Gayari Sector Glaciers Hazards Assessment; *TGRS Nov. 2015 5824-5834*
- Mahmoodi, A.**, see Rodriguez-Fernandez, N.J., *TGRS Nov. 2015 5991-6007*
- Mailhes, C.**, see Halimi, A., *TGRS Feb. 2015 598-608*
- Makhoul, E.**, Broquetas, A., Rodon, J.R., Zhan, Y., and Ceba, F., A Performance Evaluation of SAR-GMTI Missions for Maritime Applications; *TGRS May 2015 2496-2509*
- Makynen, M.**, and Simila, M., Thin Ice Detection in the Barents and Kara Seas With AMSR-E and SSMIS Radiometer Data; *TGRS Sept. 2015 5036-5053*
- Malhotra, R.**, see Jiang, M., *TGRS March 2015 1213-1224*
- Malik, J.**, see Lassalle, P., *TGRS Oct. 2015 5473-5485*
- Malleswara Rao, J.**, Rao, C.V., Senthil Kumar, A., Lakshmi, B., and Dadhwal, V.K., Spatiotemporal Data Fusion Using Temporal High-Pass Modulation and Edge Primitives; *TGRS Nov. 2015 5853-5860*
- Mallet, C.**, see Ferraz, A., *TGRS Dec. 2015 6776-6790*
- Manandhar, A.**, Torrione, P.A., Collins, L.M., and Morton, K.D., Multiple-Instance Hidden Markov Model for GPR-Based Landmine Detection; *TGRS April 2015 1737-1745*
- Mandic, D.P.**, see Abdullah, S.M.U., *TGRS July 2015 3974-3984*
- Manizade, S.S.**, see Yi, D., *TGRS March 2015 1403-1410*
- Manzo, M.**, see Pepe, A., *TGRS Aug. 2015 4394-4417*
- Mao, K.**, see Shen, X., *TGRS July 2015 4079-4090*
- Mao, T.**, see Shu, Y., *TGRS Nov. 2015 6148-6162*
- Marcellin, M.W.**, see Blanes, I., *TGRS June 2015 3361-3372*
- Marcello, J.**, see Eugenio, F., *TGRS July 2015 3539-3549*
- Marcoianni, P.**, see Barducci, A., *TGRS Feb. 2015 738-751*
- Maresca, S.**, see Horstmann, J., *TGRS May 2015 2887-2898*
- Margulis, S.A.**, see Li, D., *TGRS May 2015 2308-2322*
- Margulis, S.A.**, see Bateni, S.M., *TGRS Jan. 2015 173-189*
- Marin, C.**, Bovolo, F., and Bruzzone, L., Building Change Detection in Multitemporal Very High Resolution SAR Images; *TGRS May 2015 2664-2682*
- Marino, A.**, and Hajnsek, I., Statistical Tests for a Ship Detector Based on the Polarimetric Notch Filter; *TGRS Aug. 2015 4578-4595*
- Marks, A.A.**, see Ball, C.P., *TGRS Oct. 2015 5377-5387*
- Marmain, J.**, see Orfila, A., *TGRS May 2015 2875-2886*
- Marom, M.**, see Zilman, G., *TGRS Feb. 2015 609-619*
- Marrero, R.**, Lopez, S., Callico, G.M., Veganzones, M.A., Plaza, A., Chanussot, J., and Sarmiento, R., A Novel Negative Abundance-Oriented Hyperspectral Unmixing Algorithm; *TGRS July 2015 3772-3790*
- Marsetic, A.**, Ostir, K., and Fras, M.K., Automatic Orthorectification of High-Resolution Optical Satellite Images Using Vector Roads; *TGRS Nov. 2015 6035-6047*
- Marshall, S.**, see Zabalza, J., *TGRS Aug. 2015 4418-4433*
- Marston, T.M.**, and Plotnick, D.S., Semiparametric Statistical Stripmap Synthetic Aperture Autofocusing; *TGRS April 2015 2086-2095*
- Martens, B.**, see Verhoest, N.E.C., *TGRS June 2015 3507-3521*
- Martens, B.**, Lievens, H., Colliander, A., Jackson, T.J., and Verhoest, N.E.C., Estimating Effective Roughness Parameters of the L-MEB Model for Soil Moisture Retrieval Using Passive Microwave Observations From SMAPVEX12; *TGRS July 2015 4091-4103*

M

Ma, A., Zhong, Y., and Zhang, L., Adaptive Multiobjective Memetic Fuzzy Clustering Algorithm for Remote Sensing Imagery; *TGRS Aug. 2015 4202-4217*

- Martin, F.**, see Alonso-Arroyo, A., *TGRS June 2015 3198-3209*
- Martin, G.**, Bioucas-Dias, J.M., and Plaza, A., HYCA: A New Technique for Hyperspectral Compressive Sensing; *TGRS May 2015 2819-2831*
- Martin, J.**, see Eugenio, F., *TGRS July 2015 3539-3549*
- Martin-Puig, C.**, see Ray, C., *TGRS Feb. 2015 911-919*
- Martinez-Marin, T.**, see Vicente-Guijalba, F., *TGRS June 2015 3278-3293*
- Martone, M.**, Brautigam, B., and Krieger, G., Quantization Effects in TanDEM-X Data; *TGRS Feb. 2015 583-597*
- Martorella, M.**, see Noviello, C., *TGRS June 2015 3460-3470*
- Marzano, F.S.**, see Mereu, L., *TGRS Oct. 2015 5644-5660*
- Mascolo, L.**, see Guccione, P., *TGRS July 2015 3615-3627*
- Masi, G.**, see Gaetano, R., *TGRS June 2015 2987-3004*
- Massa, A.**, see Salucci, M., *TGRS Dec. 2015 6573-6592*
- Mastorocostas, P.A.**, see Mylonas, S.K., *TGRS Oct. 2015 5352-5376*
- Matasci, G.**, Volpi, M., Kanevski, M., Bruzzone, L., and Tuia, D., Semisupervised Transfer Component Analysis for Domain Adaptation in Remote Sensing Image Classification; *TGRS July 2015 3550-3564*
- Mateus, P.**, Nico, G., and Catalao, J., Uncertainty Assessment of the Estimated Atmospheric Delay Obtained by a Numerical Weather Model (NMW); *TGRS Dec. 2015 6710-6717*
- Mathiopoulos, P.T.**, see Wang, Z., *TGRS May 2015 2409-2425*
- Matsunaga, T.**, see Yamamoto, S., *TGRS Feb. 2015 710-723*
- Mattar, C.**, see Julien, Y., *TGRS Aug. 2015 4231-4237*
- Matteoli, S.**, see Zotta, L., *TGRS June 2015 3022-3041*
- Matteoli, S.**, Corsini, G., Diani, M., Cecchi, G., and Toci, G., Automated Underwater Object Recognition by Means of Fluorescence LIDAR; *TGRS Jan. 2015 375-393*
- Maturi, E.**, see Koner, P.K., *TGRS Nov. 2015 5872-5888*
- Maturilli, M.**, see Ball, C.P., *TGRS Oct. 2015 5377-5387*
- Mayer, M.**, see Alshawaf, F., *TGRS July 2015 3764-3771*
- Mazer, A.S.**, see Bue, B.D., *TGRS Dec. 2015 6419-6428*
- McClellan, J.H.**, see Krueger, K.R., *TGRS July 2015 4010-4021*
- McColl, K.A.**, see Piles, M., *TGRS Aug. 2015 4700-4711*
- McDonald, K.C.**, see Du, J., *TGRS Jan. 2015 542-556*
- McDonald, K.C.**, see Bateni, S.M., *TGRS Jan. 2015 173-189*
- McGarry, J.F.**, see Leigh, H.W., *TGRS April 2015 2011-2020*
- McIntire, J.**, see Oudrari, H., *TGRS April 2015 2195-2210*
- McIntire, J.**, Moyer, D., Efremova, B., Oudrari, H., and Xiong, X., On-Orbit Characterization of S-NPP VIIRS Transmission Functions; *TGRS May 2015 2354-2365*
- McIntire, J.**, see Lee, S., *TGRS Jan. 2015 324-334*
- McKay-Bukowski, D.**, Vierinen, J., Virtanen, I.I., Fallows, R., Postila, M., Ulich, T., Wucknitz, O., Brentjens, M., Ebbendorf, N., Enell, C., Gerbers, M., Grit, T., Gruppen, P., Kero, A., Iinatti, T., Lehtinen, M., Meulman, H., Norden, M., Orispaa, M., Raita, T., de Reijer, J.P., Roininen, L., Schoenmakers, A., Stuurwold, K., and Turunen, E., KAIRA: The Kilpisjärvi Atmospheric Imaging Receiver Array—System Overview and First Results; *TGRS March 2015 1440-1451*
- McLinden, M.L.**, Wollack, E.J., Heymsfield, G.M., and Li, L., Reduced Image Aliasing With Microwave Radiometers and Weather Radar Through Windowed Spatial Averaging; *TGRS Dec. 2015 6639-6649*
- McNairn, H.**, Jackson, T.J., Wiseman, G., Belair, S., Berg, A., Bullock, P., Colliander, A., Cosh, M.H., Kim, S., Magagi, R., Moghaddam, M., Njoku, E.G., Adams, J.R., Homayouni, S., Ojo, E., Rowlandson, T., Shang, J., Goita, K., and Hosseini, M., The Soil Moisture Active Passive Validation Experiment 2012 (SMAPVEX12): Pre-launch Calibration and Validation of the SMAP Soil Moisture Algorithms; *TGRS May 2015 2784-2801*
- Meier, E.**, see Henke, D., *TGRS June 2015 3146-3159*
- Meka, A.**, and Chaudhuri, S., A Technique for Simultaneous Visualization and Segmentation of Hyperspectral Data; *TGRS April 2015 1707-1717*
- Mekhalif, M.L.**, see Moranduzzo, T., *TGRS Dec. 2015 6394-6406*
- Melgani, F.**, see Moranduzzo, T., *TGRS Dec. 2015 6394-6406*
- Melkumyan, A.**, see Murphy, R.J., *TGRS April 2015 1907-1920*
- Melnikov, V.M.**, Doviak, R.J., and Zrnicek, D.S., A Method to Increase the Scanning Rate of Phased-Array Weather Radar; *TGRS Oct. 2015 5634-5643*
- Melsheimer, C.**, see Suresh, G., *TGRS Aug. 2015 4218-4230*
- Mendenhall, M.J.**, see Vongsy, K., *TGRS June 2015 3005-3021*
- Mendez Dominguez, E.**, see Henke, D., *TGRS June 2015 3146-3159*
- Meng, D.**, Hu, D., and Ding, C., Precise Focusing of Airborne SAR Data With Wide Apertures Large Trajectory Deviations: A Chirp Modulated Back-Projection Approach; *TGRS May 2015 2510-2519*
- Mereu, L.**, Marzano, F.S., Montopoli, M., and Bonadonna, C., Retrieval of Tephra Size Spectra and Mass Flow Rate From C-Band Radar During the 2010 Eyjafjallajökull Eruption, Iceland; *TGRS Oct. 2015 5644-5660*
- Merrill, C.F.**, see Hackett, E.E., *TGRS Nov. 2015 5926-5942*
- Meshkov, E.M.**, see Titchenko, Y.A., *TGRS Aug. 2015 4340-4347*
- Meulman, H.**, see McKay-Bukowski, D., *TGRS March 2015 1440-1451*
- Meyer, F.J.**, see Gong, W., *TGRS July 2015 4033-4044*
- Mialon, A.**, Richaume, P., Leroux, D., Bircher, S., Bitar, A.A., Pellarin, T., Wigneron, J., and Kerr, Y.H., Comparison of Dobson and Mironov Dielectric Models in the SMOS Soil Moisture Retrieval Algorithm; *TGRS June 2015 3084-3094*
- Mialon, A.**, see Leduc-Leballeur, M., *TGRS July 2015 4022-4032*
- Mian, A.**, see Akhtar, N., *TGRS April 2015 2157-2174*
- Miao, Z.**, see Li, Z., *TGRS Feb. 2015 883-899*
- Miao, Z.**, see Li, Z., *TGRS Oct. 2015 5794*
- Michaelis, A.**, see Basu, S., *TGRS Oct. 2015 5690-5708*
- Michel, J.**, Youssefi, D., and Grizonnet, M., Stable Mean-Shift Algorithm and Its Application to the Segmentation of Arbitrarily Large Remote Sensing Images; *TGRS Feb. 2015 952-964*
- Michel, J.**, see Dellinger, F., *TGRS Jan. 2015 453-466*
- Michel, J.**, see Lassalle, P., *TGRS Oct. 2015 5473-5485*
- Michel, T.R.**, see Fore, A.G., *TGRS June 2015 3481-3491*
- Mielke, C.**, see Segl, K., *TGRS Oct. 2015 5560-5571*
- Migliaccio, M.**, see Lenti, F., *TGRS Sept. 2015 4876-4886*
- Mikhnev, V.A.**, see Huuskonen-Snicker, E., *TGRS Feb. 2015 1001-1007*
- Milesi, C.**, see Basu, S., *TGRS Oct. 2015 5690-5708*
- Mishne, G.**, Talmon, R., and Cohen, I., Graph-Based Supervised Automatic Target Detection; *TGRS May 2015 2738-2754*
- Mitchell, R.**, see Qin, Y., *TGRS Nov. 2015 6163-6182*
- Modi, P.**, see Patra, S., *TGRS Oct. 2015 5495-5503*
- Moghaddasi, S.M.**, Dehmollaian, M., and Rashed-Mohassel, J., Time Reversal Imaging of Deeply Buried Targets Under Moderately Rough Surfaces Using Approximate Transmitted Fields; *TGRS July 2015 3897-3905*
- Moghaddam, M.**, see Akbar, R., *TGRS June 2015 3312-3324*
- Moghaddam, M.**, see Tabatabaenejad, A., *TGRS Feb. 2015 645-658*
- Moghaddam, M.**, see McNairn, H., *TGRS May 2015 2784-2801*
- Moghaddam, M.**, see Du, J., *TGRS Jan. 2015 542-556*
- Moisseev, D.**, see von Lerber, A., *TGRS Feb. 2015 724-737*
- Moisseev, D.**, see Alku, L., *TGRS July 2015 3628-3638*
- Molcard, A.**, see Orfila, A., *TGRS May 2015 2875-2886*
- Montazeri, S.**, see Gisinger, C., *TGRS April 2015 1782-1802*
- Monti Guarnieri, A.**, see Guccione, P., *TGRS Dec. 2015 6804-6812*
- Monti-Guarnieri, A.**, see Villa, A., *TGRS Feb. 2015 674-686*
- Montomoli, F.**, see Cohen, J., *TGRS Dec. 2015 6593-6607*
- Montopoli, M.**, see Mereu, L., *TGRS Oct. 2015 5644-5660*
- Moon, T.**, Wang, Y., Liu, Y., and Yu, B., Evaluation of a MISR-Based High-Resolution Aerosol Retrieval Method Using AERONET DRAGON Campaign Data; *TGRS Aug. 2015 4328-4339*
- Moradi, I.**, Ferraro, R.R., Eriksson, P., and Weng, F., Intercalibration and Validation of Observations From ATMS and SAPHIR Microwave Sounders; *TGRS Nov. 2015 5915-5925*
- Moradi, I.**, Ferraro, R.R., Soden, B.J., Eriksson, P., and Arkin, P., Retrieving Layer-Averaged Tropospheric Humidity From Advanced Technology Microwave Sounder Water Vapor Channels; *TGRS Dec. 2015 6675-6688*
- Moradkhani, H.**, see Yan, H., *TGRS Nov. 2015 6134-6147*
- Moranduzzo, T.**, Melgani, F., Mekhalif, M.L., Bazi, Y., and Alajlan, N., Multiclass Coarse Analysis for UAV Imagery; *TGRS Dec. 2015 6394-6406*
- Moreau, T.**, see Halimi, A., *TGRS Feb. 2015 598-608*
- Moreira, A.**, see Pinheiro, M., *TGRS April 2015 1876-1893*
- Moreira, A.**, see Kim, J., *TGRS May 2015 2453-2466*
- Moreira, A.**, see Rodriguez-Cassola, M., *TGRS Jan. 2015 25-35*
- Moreira, A.**, see Sanjuan-Ferrer, M.J., *TGRS Nov. 2015 6293-6307*
- Moreno, N.M.**, see Hall, J.L., *TGRS Oct. 2015 5447-5457*
- Morishita, Y.**, and Hanssen, R.F., Deformation Parameter Estimation in Low Coherence Areas Using a Multisatellite InSAR Approach; *TGRS Aug. 2015 4275-4283*
- Morishita, Y.**, and Hanssen, R.F., Temporal Decorrelation in L-, C-, and X-band Satellite Radar Interferometry for Pasture on Drained Peat Soils; *TGRS Feb. 2015 1096-1104*
- Morstad, D.**, see Doelling, D.R., *TGRS Aug. 2015 4520-4535*
- Morton, K.D.**, see Manandhar, A., *TGRS April 2015 1737-1745*
- Morton, Y.T.**, see Wang, J., *TGRS Nov. 2015 6099-6113*
- Moshary, F.**, see Abdelazim, S., *TGRS Dec. 2015 6495-6506*
- Motohka, T.**, Yoshida, T., Shibata, H., Tadono, T., and Shimada, M., Mapping Aboveground Biomass in Northern Japanese Forests Using the ALOS PRISM Digital Surface Model; *TGRS April 2015 1683-1691*
- Motohka, T.**, see Watanabe, M., *TGRS Nov. 2015 5799-5813*

- Mousavi, P.**, see Oloumi, D., *TGRS Aug. 2015 4510-4520*
Moya, I., see Daumard, F., *TGRS Sept. 2015 5180-5196*
Moyer, D., see McIntire, J., *TGRS May 2015 2354-2365*
Muellerschoen, R.J., see Fore, A.G., *TGRS June 2015 3481-3491*
Mukhopadhyay, S., see Basu, S., *TGRS Oct. 2015 5690-5708*
Mullens, E., see Chen, S., *TGRS Aug. 2015 4434-4443*
Murk, A., see Fernandez, J., *TGRS Jan. 2015 344-351*
Murphy, E.F., see Breon, F., *TGRS Aug. 2015 4638-4649*
Murphy, R.J., Chlingaryan, A., and Melkumyan, A., Gaussian Processes for Estimating Wavelength Position of the Ferric Iron Crystal Field Feature at ~900 nm From Hyperspectral Imagery Acquired in the Short-Wave Infrared (1002–1355 nm); *TGRS April 2015 1907-1920*
Mylonas, S.K., Stavrakoudis, D.G., Theocharis, J.B., and Mastorocostas, P.A., Classification of Remotely Sensed Images Using the GeneSIS Fuzzy Segmentation Algorithm; *TGRS Oct. 2015 5352-5376*

N

- Nagarajan, K.**, see Chakrabarti, S., *TGRS Jan. 2015 85-101*
Nagesh Kumar, D., see Indu, J., *TGRS Dec. 2015 6429-6442*
Nakamura, K., see Watanabe, M., *TGRS Nov. 2015 5799-5813*
Nakamura, R., see Yamamoto, S., *TGRS Feb. 2015 710-723*
Narasimhan, G., see Yan, J., *TGRS Jan. 2015 3-14*
Nardino, V., see Barducci, A., *TGRS Feb. 2015 738-751*
Narvekar, P.S., Entekhabi, D., Kim, S., and Njoku, E.G., Soil Moisture Retrieval Using L-Band Radar Observations; *TGRS June 2015 3492-3506*
Nasrabadi, N.M., see Wang, Z., *TGRS March 2015 1161-1173*
Nasrabadi, N.M., see Sun, X., *TGRS Aug. 2015 4457-4471*
Natale, A., see Granstrom, K., *TGRS Dec. 2015 6617-6631*
Navas-Traver, I., see Guccione, P., *TGRS Dec. 2015 6804-6812*
Nemani, R.R., see Basu, S., *TGRS Oct. 2015 5690-5708*
Netzel, P., and Stepinski, T.F., Pattern-Based Assessment of Land Cover Change on Continental Scale With Application to NLCD 2001–2006; *TGRS April 2015 1773-1781*
Neumann, G.A., see Sun, X., *TGRS May 2015 2860-2874*
Nevas, S., see Lenhard, K., *TGRS Nov. 2015 6085-6098*
Nico, G., see Mateus, P., *TGRS Dec. 2015 6710-6717*
Nielsen, U., and Dall, J., Direction-of-Arrival Estimation for Radar Ice Sounding Surface Clutter Suppression; *TGRS Sept. 2015 5170-5179*
Nilsson, T., see Li, X., *TGRS Dec. 2015 6385-6393*
Ning, T., see Li, X., *TGRS Dec. 2015 6385-6393*
Niu, L., see Zhang, C., *TGRS Jan. 2015 207-218*
Niu, M., see Wang, P., *TGRS March 2015 1225-1235*
Njoku, E.G., see Narvekar, P.S., *TGRS June 2015 3492-3506*
Njoku, E.G., see McNairn, H., *TGRS May 2015 2784-2801*
Nonin, P., see Solberg, S., *TGRS Jan. 2015 154-161*
Nordeen, M., see Doelling, D.R., *TGRS March 2015 1513-1526*
Norden, M., see McKay-Bukowski, D., *TGRS March 2015 1440-1451*
Normand, J.C.L., and Heggy, E., InSAR Assessment of Surface Deformations in Urban Coastal Terrains Associated With Groundwater Dynamics; *TGRS Dec. 2015 6356-6371*
Nouguier, F., see Boisot, O., *TGRS Nov. 2015 5889-5900*
Noviello, C., Fornaro, G., and Martorella, M., Focused SAR Image Formation of Moving Targets Based on Doppler Parameter Estimation; *TGRS June 2015 3460-3470*
Nowy, S., see Lenhard, K., *TGRS Nov. 2015 6085-6098*
Noyola, M.J., see Jang, W., *TGRS June 2015 3471-3480*
Nunziata, F., see Lenti, F., *TGRS Sept. 2015 4876-4886*

O

- Obradovic, Z.**, see Das, D., *TGRS Dec. 2015 6689-6702*
Oh, J., see Lee, C., *TGRS March 2015 1186-1194*
Oh, Y., see Kweon, S., *TGRS May 2015 2802-2809*
Ojo, E., see McNairn, H., *TGRS May 2015 2784-2801*
Okuyama, A., see Khlopenkov, K.V., *TGRS March 2015 1504-1512*
Okuyama, A., see Doelling, D.R., *TGRS March 2015 1513-1526*
Okuyama, A., and Imaoka, K., Intercalibration of Advanced Microwave Scanning Radiometer-2 (AMSR2) Brightness Temperature; *TGRS Aug. 2015 4568-4577*
Oldenburger, D.W., see Song, L., *TGRS Feb. 2015 1061-1072*

- Olech, B.**, see Klesk, P., *TGRS July 2015 3996-4009*
Oliveras, S., see Cardellach, E., *TGRS Jan. 2015 190-206*
Oliveri, G., see Salucci, M., *TGRS Dec. 2015 6573-6592*
Olkkonen, M., see Huuskonen-Snicker, E., *TGRS Feb. 2015 1001-1007*
Oloumi, D., Pettersson, M.I., Mousavi, P., and Rambabu, K., Imaging of Oil-Well Perforations Using UWB Synthetic Aperture Radar; *TGRS Aug. 2015 4510-4520*
Omre, H., see Lindberg, D.V., *TGRS Dec. 2015 6443-6456*
Onana, V.d.P., Koenig, L.S., Ruth, J., Studinger, M., and Harbeck, J.P., A Semiautomated Multilayer Picking Algorithm for Ice-Sheet Radar Echograms Applied to Ground-Based Near-Surface Data; *TGRS Jan. 2015 51-69*
Onrubia, R., see Alonso-Arroyo, A., *TGRS June 2015 3198-3209*
Orfila, A., Molcard, A., Sayol, J.M., Marmain, J., Bellomo, L., Quentin, C., and Barbin, Y., Empirical Forecasting of HF-Radar Velocity Using Genetic Algorithms; *TGRS May 2015 2875-2886*
Oriot, H.M., see Poisson, J., *TGRS April 2015 1976-1984*
Orispaa, M., see McKay-Bukowski, D., *TGRS March 2015 1440-1451*
Ospina, R., see Dias, L., *TGRS Feb. 2015 851-861*
Ostir, K., see Marsetic, A., *TGRS Nov. 2015 6035-6047*
Oudrari, H., McIntire, J., Xiong, X., Butler, J., Lee, S., Lei, N., Schwarting, T., and Sun, J., Prelaunch Radiometric Characterization and Calibration of the S-NPP VIIRS Sensor; *TGRS April 2015 2195-2210*
Oudrari, H., see McIntire, J., *TGRS May 2015 2354-2365*
Oudrari, H., see Lee, S., *TGRS Jan. 2015 324-334*
Ounis, A., see Daumard, F., *TGRS Sept. 2015 5180-5196*
Ovarlez, J., see Anghel, A., *TGRS Aug. 2015 4379-4393*
Oveisgharan, S., Saatchi, S., and Hensley, S., Sensitivity of Pol-InSAR Measurements to Vegetation Parameters; *TGRS Dec. 2015 6561-6572*
Ozsarac, S., and Akar, G.B., Atmospheric Effects Removal for the Infrared Image Sequences; *TGRS Sept. 2015 4899-4909*

P

- Pablos, M.**, see Piles, M., *TGRS Aug. 2015 4700-4711*
Paden, J., see Patel, A., *TGRS May 2015 2547-2564*
Padulles, R., see Cardellach, E., *TGRS Jan. 2015 190-206*
Pagliaroni, D.W., Pechard, C.T., and Beer, N.R., Change Detection in Constellations of Buried Objects Extracted From Ground-Penetrating Radar Data; *TGRS May 2015 2426-2439*
Pail, R., see Gisinger, C., *TGRS April 2015 1782-1802*
Palsson, F., Sveinsson, J.R., Ulfarsson, M.O., and Benediktsson, J.A., Model-Based Fusion of Multi- and Hyperspectral Images Using PCA and Wavelets; *TGRS May 2015 2652-2663*
Pan, C., see Zhang, Q., *TGRS Jan. 2015 261-279*
Pan, H., see Zhang, G., *TGRS Feb. 2015 933-941*
Pan, M., see Verhoest, N.E.C., *TGRS June 2015 3507-3521*
Pancieri, R., see Wu, X., *TGRS April 2015 1921-1934*
Panzer, B., see Patel, A., *TGRS May 2015 2547-2564*
Papa, F., see Prigent, C., *TGRS March 2015 1364-1373*
Papathanassiou, K.P., see Kugler, F., *TGRS Oct. 2015 5294-5311*
Papathanassiou, K.P., see Sanjuan-Ferrer, M.J., *TGRS Nov. 2015 6293-6307*
Papathanassiou, K.P., see Kim, J.S., *TGRS Dec. 2015 6319-6335*
Parent du Chatelet, J., see Tahanout, M., *TGRS Oct. 2015 5572-5582*
Parinussa, R.M., see de Nijs, A.H.A., *TGRS Sept. 2015 5148-5159*
Paris, C., and Bruzzone, L., A Three-Dimensional Model-Based Approach to the Estimation of the Tree Top Height by Fusing Low-Density LiDAR Data and Very High Resolution Optical Images; *TGRS Jan. 2015 467-480*
Park, H., see Gillis, N., *TGRS April 2015 2066-2078*
Park, H., see Alonso-Arroyo, A., *TGRS June 2015 3198-3209*
Park, S., see Cui, Y., *TGRS Feb. 2015 1048-1060*
Park, Y., see Kim, W., *TGRS Oct. 2015 5458-5472*
Pascual, D., see Alonso-Arroyo, A., *TGRS June 2015 3198-3209*
Pasion, L.R., see Song, L., *TGRS Feb. 2015 1061-1072*
Passaro, M., Fenoglio-Marc, L., and Cipollini, P., Validation of Significant Wave Height From Improved Satellite Altimetry in the German Bight; *TGRS April 2015 2146-2156*
Pastorino, M., Raffetto, M., and Randazzo, A., Electromagnetic Inverse Scattering of Axially Moving Cylindrical Targets; *TGRS March 2015 1452-1462*
Patel, A., Paden, J., Leuschen, C., Kwok, R., Gomez-Garcia, D., Panzer, B., Davidson, M.W.J., and Gogineni, S., Fine-Resolution Radar Altimeter Measurements on Land and Sea Ice; *TGRS May 2015 2547-2564*

- Patel, R.C.**, and Joshi, M.V., Super-Resolution of Hyperspectral Images: Use of Optimum Wavelet Filter Coefficients and Sparsity Regularization; *TGRS April 2015* 1728-1736
- Patra, S.**, Modi, P., and Bruzzone, L., Hyperspectral Band Selection Based on Rough Set; *TGRS Oct. 2015* 5495-5503
- Pauciullo, A.**, see Fornaro, G., *TGRS April 2015* 2050-2065
- Pauciullo, A.**, see Perna, S., *TGRS May 2015* 2713-2726
- Pauwels, V.R.N.**, see Verhoest, N.E.C., *TGRS June 2015* 3507-3521
- Pechard, C.T.**, see Paglieroni, D.W., *TGRS May 2015* 2426-2439
- Pedros, R.**, see Daumard, F., *TGRS Sept. 2015* 5180-5196
- Pellarin, T.**, see Mialon, A., *TGRS June 2015* 3084-3094
- Peng, J.**, see Zhou, Y., *TGRS Feb. 2015* 1082-1095
- Peng, J.**, Zhou, Y., and Chen, C.L.P., Region-Kernel-Based Support Vector Machines for Hyperspectral Image Classification; *TGRS Sept. 2015* 4810-4824
- Peng, R.**, see Zhou, X., *TGRS May 2015* 2640-2651
- Pepe, A.**, Yang, Y., Manzo, M., and Lanari, R., Improved EMCF-SBAS Processing Chain Based on Advanced Techniques for the Noise-Filtering and Selection of Small Baseline Multi-Look DInSAR Interferograms; *TGRS Aug. 2015* 4394-4417
- Pepe, A.**, see Imperatore, P., *TGRS Oct. 2015* 5774-5793
- Pereira, L.G.**, see Ferraz, A., *TGRS Dec. 2015* 6776-6790
- Perna, S.**, Esposito, C., Berardino, P., Pauciullo, A., Wimmer, C., and Lanari, R., Phase Offset Calculation for Airborne InSAR DEM Generation Without Corner Reflectors; *TGRS May 2015* 2713-2726
- Persson, H.J.**, see Soja, M.J., *TGRS Oct. 2015* 5795
- Persson, H.J.**, see Soja, M.J., *TGRS Sept. 2015* 5083-5099
- Peters-Lidard, C.D.**, see Ringerud, S., *TGRS April 2015* 1935-1946
- Pettersson, M.I.**, see Oloumi, D., *TGRS Aug. 2015* 4510-4520
- Phillips, R.D.**, see Cha, M., *TGRS Dec. 2015* 6547-6560
- Picard, G.**, see Leduc-Leballeur, M., *TGRS July 2015* 4022-4032
- Picard, G.**, see Kwon, Y., *TGRS Sept. 2015* 5247-5268
- Pichel, W.G.**, see Xu, F., *TGRS June 2015* 3042-3054
- Pichel, W.G.**, see Li, X., *TGRS Sept. 2015* 5269-5279
- Piedra-Fernandez, J.A.**, see Espinola, M., *TGRS Feb. 2015* 795-809
- Pietrafesa, L.J.**, see Li, X., *TGRS Sept. 2015* 5269-5279
- Pikoulis, E.**, and Psarakis, E.Z., Automatic Seismic Signal Detection via Record Segmentation; *TGRS July 2015* 3870-2884
- Piles, M.**, McColl, K.A., Entekhabi, D., Das, N., and Pablos, M., Sensitivity of Aquarius Active and Passive Measurements Temporal Covariability to Land Surface Characteristics; *TGRS Aug. 2015* 4700-4711
- Pinheiro, M.**, Rodriguez-Cassola, M., Prats-Iraola, P., Reigber, A., Krieger, G., and Moreira, A., Reconstruction of Coherent Pairs of Synthetic Aperture Radar Data Acquired in Interrupted Mode; *TGRS April 2015* 1876-1893
- Pippi, I.**, see Barducci, A., *TGRS Feb. 2015* 738-751
- Plaza, A.**, see Li, J., *TGRS March 2015* 1592-1606
- Plaza, A.**, see Li, J., *TGRS May 2015* 2899-2912
- Plaza, A.**, see Martin, G., *TGRS May 2015* 2819-2831
- Plaza, A.**, see Marrero, R., *TGRS July 2015* 3772-3790
- Plaza, A.**, see Li, J., *TGRS Sept. 2015* 5067-5082
- Plotnick, D.S.**, see Marston, T.M., *TGRS April 2015* 2086-2095
- Podest, E.**, see Bateni, S.M., *TGRS Jan. 2015* 173-189
- Poggi, G.**, see Gaetano, R., *TGRS June 2015* 2987-3004
- Poisson, J.**, Oriot, H.M., and Tupin, F., Ground Moving Target Trajectory Reconstruction in Single-Channel Circular SAR; *TGRS April 2015* 1976-1984
- Polydorides, N.**, and Delbary, F., Marine Electrical Sensing for Detecting Small Inhomogeneities; *TGRS Feb. 2015* 988-1000
- Pont, O.**, see Sudre, J., *TGRS Nov. 2015* 6274-6285
- Portabella, M.**, see Lin, W., *TGRS Aug. 2015* 4165-4177
- Possenti, P.**, see Leduc-Leballeur, M., *TGRS July 2015* 4022-4032
- Postila, M.**, see McKay-Bukowski, D., *TGRS March 2015* 1440-1451
- Pottier, E.**, see Li, Y., *TGRS June 2015* 3160-3177
- Prasad, S.**, see Cui, M., *TGRS May 2015* 2683-2695
- Prats-Iraola, P.**, see Pinheiro, M., *TGRS April 2015* 1876-1893
- Prats-Iraola, P.**, see Rodriguez-Cassola, M., *TGRS Jan. 2015* 25-35
- Priestley, K.J.**, see Daniels, J.L., *TGRS Sept. 2015* 5110-5116
- Prigent, C.**, Aires, F., Jimenez, C., Papa, F., and Roger, J., Multiangle Backscattering Observations of Continental Surfaces in Ku-Band (13 GHz) From Satellites: Understanding the Signals, Particularly in Arid Regions; *TGRS March 2015* 1364-1373
- Prigent, C.**, see Rodriguez-Fernandez, N.J., *TGRS Nov. 2015* 5991-6007
- Principe, J.C.**, see Chakrabarti, S., *TGRS Jan. 2015* 85-101
- Przestrzelski, P.**, see Bakula, M., *TGRS Feb. 2015* 1029-1038
- Psarakis, E.Z.**, see Pikoulis, E., *TGRS July 2015* 3870-2884
- Pu, H.**, Chen, Z., Wang, B., and Xia, W., Constrained Least Squares Algorithms for Nonlinear Unmixing of Hyperspectral Imagery; *TGRS March 2015* 1287-1303
- Pullianen, J.**, see Cohen, J., *TGRS Dec. 2015* 6593-6607

Q

- Qian, J.**, see Ahmad, F., *TGRS March 2015* 1549-1557
- Qian, Y.**, see Ye, M., *TGRS May 2015* 2621-2639
- Qiao, L.**, see Chen, S., *TGRS Aug. 2015* 4444-4456
- Qin, A.K.**, see Wan, L., *TGRS May 2015* 2384-2396
- Qin, J.**, see Han, M., *TGRS May 2015* 2775-2783
- Qin, Q.**, see Shen, X., *TGRS July 2015* 4079-4090
- Qin, Y.**, see Gao, H., *TGRS July 2015* 4127-4137
- Qin, Y.**, Mitchell, R., and Forgan, B.W., Characterizing the Aerosol and Surface Reflectance Over Australia Using AATSR; *TGRS Nov. 2015* 6163-6182
- Qiu, X.**, see Zhang, Y., *TGRS Aug. 2015* 4687-4699
- Qiu, Z.**, see Chen, Y., *TGRS Aug. 2015* 4616-4626
- Qu, H.**, see Wang, Z., *TGRS May 2015* 2409-2425
- Quan, X.**, He, B., and Li, X., A Bayesian Network-Based Method to Alleviate the Ill-Posed Inverse Problem: A Case Study on Leaf Area Index and Canopy Water Content Retrieval; *TGRS Dec. 2015* 6507-6517
- Quegan, S.**, and Lomas, M.R., The Impact of System Effects on Estimates of Faraday Rotation From Synthetic Aperture Radar Measurements; *TGRS Aug. 2015* 4284-4298
- Quegan, S.**, and Lomas, M.R., The Interaction Between Faraday Rotation and System Effects in Synthetic Aperture Radar Measurements of Backscatter and Biomass; *TGRS Aug. 2015* 4299-4312
- Quegan, S.**, see Kim, J.S., *TGRS Dec. 2015* 6319-6335
- Quentin, C.**, see Orfila, A., *TGRS May 2015* 2875-2886
- Quidu, I.**, see Karoui, I., *TGRS Aug. 2015* 4661-4669
- Quidu, I.**, see Karoui, I., *TGRS Nov. 2015* 6315

R

- Rabiee, H.R.**, see Soltani-Farani, A., *TGRS Jan. 2015* 527-541
- Raffetto, M.**, see Pastorino, M., *TGRS March 2015* 1452-1462
- Raita, T.**, see McKay-Bukowski, D., *TGRS March 2015* 1440-1451
- Rambabu, K.**, see Oloumi, D., *TGRS Aug. 2015* 4510-4520
- Ramirez, A.**, Arce, G.R., and Sadler, B.M., Spectral Image Unmixing From Optimal Coded-Aperture Compressive Measurements; *TGRS Jan. 2015* 405-415
- Ramsey, M.S.**, see Hall, J.L., *TGRS Oct. 2015* 5447-5457
- Ran, L.**, see Xu, K., *TGRS Feb. 2015* 841-850
- Randazzo, A.**, see Pastorino, M., *TGRS March 2015* 1452-1462
- Rao, C.V.**, see Malleswara Rao, J., *TGRS Nov. 2015* 5853-5860
- Rashed-Mohassel, J.**, see Moghadasi, S.M., *TGRS July 2015* 3897-3905
- Rau, J.**, Jhan, J., and Hsu, Y., Analysis of Oblique Aerial Images for Land Cover and Point Cloud Classification in an Urban Environment; *TGRS March 2015* 1304-1319
- Ray, C.**, Martin-Puig, C., Clarizia, M.P., Ruffini, G., Dinardo, S., Gommenginger, C., and Benveniste, J., SAR Altimeter Backscattered Waveform Model; *TGRS Feb. 2015* 911-919
- Raymaekers, D.**, see Ampe, E.M., *TGRS Feb. 2015* 869-882
- Reale, D.**, see Fornaro, G., *TGRS April 2015* 2050-2065
- Rehman, N.u.**, see Abdullah, S.M.U., *TGRS July 2015* 3974-3984
- Reigber, A.**, see Pinheiro, M., *TGRS April 2015* 1876-1893
- Reigber, A.**, see Deledalle, C., *TGRS April 2015* 2021-2038
- Reigber, A.**, see Rodriguez-Cassola, M., *TGRS Jan. 2015* 25-35
- Reineix, A.**, see Biancheri-Astier, M., *TGRS Aug. 2015* 4627-4637
- Ren, J.**, see Han, J., *TGRS June 2015* 3325-3337
- Ren, J.**, see Zabalza, J., *TGRS Aug. 2015* 4418-4433
- Ren, J.**, see Cheng, G., *TGRS Aug. 2015* 4238-4249
- Ren, J.**, see Fang, L., *TGRS Dec. 2015* 6663-6674
- Ren, T.**, see Shi, G., *TGRS Feb. 2015* 1039-1047
- Repin, A.V.**, see Bobrov, P.P., *TGRS May 2015* 2366-2372
- Restaino, R.**, see Vivone, G., *TGRS April 2015* 1997-2010
- Restaino, R.**, see Vivone, G., *TGRS May 2015* 2565-2586
- Riccio, D.**, see Iervolino, P., *TGRS May 2015* 2295-2307
- Riccio, D.**, see Amitrano, D., *TGRS Jan. 2015* 117-133
- Riccio, D.**, and Ruello, G., Synthesis of Fractal Surfaces for Remote-Sensing Applications; *TGRS July 2015* 3803-3814

- Richaume, P.**, see Mialon, A., *TGRS June 2015 3084-3094*
- Richaume, P.**, see Khazaal, A., *TGRS Sept. 2015 4961-4971*
- Richaume, P.**, see Rodriguez-Fernandez, N.J., *TGRS Nov. 2015 5991-6007*
- Richmond, C.D.**, see Cha, M., *TGRS Dec. 2015 6547-6560*
- Richter, R.**, see Schlapfer, D., *TGRS April 2015 1855-1864*
- Riegler, G.**, see Solberg, S., *TGRS Jan. 2015 154-161*
- Ringerud, S.**, Kummerow, C.D., and Peters-Lidard, C.D., A Semi-Empirical Model for Computing Land Surface Emissivity in the Microwave Region; *TGRS April 2015 1935-1946*
- Rius, A.**, see Cardellach, E., *TGRS Jan. 2015 190-206*
- Rocadenbosch, F.**, see Lange, D., *TGRS June 2015 3338-3349*
- Rocca, F.**, see Ho Tong Minh, D., *TGRS Feb. 2015 965-975*
- Rodell, M.**, see Kwon, Y., *TGRS Sept. 2015 5247-5268*
- Rodionova, O.V.**, see Bobrov, P.P., *TGRS May 2015 2366-2372*
- Rodon, J.R.**, see Makhoul, E., *TGRS May 2015 2496-2509*
- Rodriguez-Cassola, M.**, see Pinheiro, M., *TGRS April 2015 1876-1893*
- Rodriguez-Cassola, M.**, Prats-Iraola, P., De Zan, F., Scheiber, R., Reigber, A., Geudtner, D., and Moreira, A., Doppler-Related Distortions in TOPS SAR Images; *TGRS Jan. 2015 25-35*
- Rodriguez-Fernandez, N.J.**, Aires, F., Richaume, P., Kerr, Y.H., Prigent, C., Kolassa, J., Cabot, F., Jimenez, C., Mahmoodi, A., and Drusch, M., Soil Moisture Retrieval Using Neural Networks: Application to SMOS; *TGRS Nov. 2015 5991-6007*
- Rogass, C.**, see Segl, K., *TGRS Oct. 2015 5560-5571*
- Roger, J.**, see Prigent, C., *TGRS March 2015 1364-1373*
- Roininen, L.**, see McKay-Bukowski, D., *TGRS March 2015 1440-1451*
- Romeiser, R.**, Graber, H.C., Caruso, M.J., Jensen, R.E., Walker, D.T., and Cox, A.T., A New Approach to Ocean Wave Parameter Estimates From C-Band ScanSAR Images; *TGRS March 2015 1320-1345*
- Romeiser, R.**, and Graber, H.C., Advanced Remote Sensing of Internal Waves by Spaceborne Along-Track InSAR—A Demonstration With TerraSAR-X; *TGRS Dec. 2015 6735-6751*
- Rosenberg, L.**, see Fiche, A., *TGRS Aug. 2015 4650-4660*
- Rosenkranz, P.W.**, A Model for the Complex Dielectric Constant of Supercooled Liquid Water at Microwave Frequencies; *TGRS March 2015 1387-1393*
- Rossi, C.**, and Erten, E., Paddy-Rice Monitoring Using TanDEM-X; *TGRS Feb. 2015 900-910*
- Rossi, C.**, and Eineder, M., High-Resolution InSAR Building Layovers Detection and Exploitation; *TGRS Dec. 2015 6457-6468*
- Rottensteiner, F.**, see Hoberg, T., *TGRS Feb. 2015 659-673*
- Roussi, C.**, see Atwood, D.K., *TGRS Nov. 2015 5972-5982*
- Rovira-Garcia, A.**, Juan, J.M., Sanz, J., and Gonzalez-Casado, G., A World-wide Ionospheric Model for Fast Precise Point Positioning; *TGRS Aug. 2015 4596-4604*
- Rowlandson, T.**, see McNairn, H., *TGRS May 2015 2784-2801*
- Rudiger, C.**, see Wu, X., *TGRS April 2015 1921-1934*
- Rudiger, C.**, see Ye, N., *TGRS July 2015 3906-3916*
- Ruello, G.**, see Amitrano, D., *TGRS Jan. 2015 117-133*
- Ruello, G.**, see Riccio, D., *TGRS July 2015 3803-3814*
- Ruf, C.S.**, see Chen, D.D., *TGRS Sept. 2015 4972-4984*
- Ruffini, G.**, see Ray, C., *TGRS Feb. 2015 911-919*
- Ruth, J.**, see Onana, V.d.P., *TGRS Jan. 2015 51-69*
- Ruzanski, E.**, and Chandrasekar, V., Weather Radar Data Interpolation Using a Kernel-Based Lagrangian Nowcasting Technique; *TGRS June 2015 3073-3083*
- Salucci, M.**, Oliveri, G., and Massa, A., GPR Prospecting Through an Inverse-Scattering Frequency-Hopping Multifocusing Approach; *TGRS Dec. 2015 6573-6592*
- Samiei-Esfahany, S.**, see Mahapatra, P.S., *TGRS July 2015 3669-3680*
- Samson, E.L.**, see Zhao, N., *TGRS April 2015 2039-2049*
- Sanjuan-Ferrer, M.J.**, Hajnsek, I., Papathanassiou, K.P., and Moreira, A., A New Detection Algorithm for Coherent Scatterers in SAR Data; *TGRS Nov. 2015 6293-6307*
- Santoro, D.**, see Abdelazim, S., *TGRS Dec. 2015 6495-6506*
- Santos, L.**, see Guerra, R., *TGRS Dec. 2015 6752-6765*
- Santurri, L.**, see Carla, R., *TGRS Dec. 2015 6344-6355*
- Sanz, J.**, see Rovira-Garcia, A., *TGRS Aug. 2015 4596-4604*
- Sarabandi, K.**, see Atwood, D.K., *TGRS Nov. 2015 5972-5982*
- Sarmiento, R.**, see Marrero, R., *TGRS July 2015 3772-3790*
- Sarmiento, R.**, see Guerra, R., *TGRS Dec. 2015 6752-6765*
- Sarture, C.M.**, see Bue, B.D., *TGRS Dec. 2015 6419-6428*
- Sato, T.**, see Sakamoto, T., *TGRS Jan. 2015 352-361*
- Sayol, J.M.**, see Orfila, A., *TGRS May 2015 2875-2886*
- Scarino, B.R.**, see Doelling, D.R., *TGRS March 2015 1513-1526*
- Scarino, B.R.**, see Doelling, D.R., *TGRS Aug. 2015 4520-4535*
- Scarpa, G.**, see Gaetano, R., *TGRS June 2015 2987-3004*
- Schaepman, M.E.**, see Henke, D., *TGRS June 2015 3146-3159*
- Schaepman, M.E.**, see Weyermann, J., *TGRS Nov. 2015 5814-5823*
- Scharroo, R.**, see Smith, W.H.F., *TGRS April 2015 1671-1682*
- Scheiber, R.**, see Rodriguez-Cassola, M., *TGRS Jan. 2015 25-35*
- Scheiber, R.**, see Kim, J.S., *TGRS Dec. 2015 6319-6335*
- Schellekens, J.**, see de Nijs, A.H.A., *TGRS Sept. 2015 5148-5159*
- Scheunders, P.**, see Karami, A., *TGRS Sept. 2015 5054-5066*
- Schindler, K.**, see Tokarczyk, P., *TGRS Jan. 2015 280-295*
- Schirinzi, G.**, see Budillon, A., *TGRS June 2015 3350-3360*
- Schistad Solberg, A.H.**, see Landmark, K., *TGRS Nov. 2015 6252-6273*
- Schlapfer, D.**, Richter, R., and Feingersh, T., Operational BRDF Effects Correction for Wide-Field-of-View Optical Scanners (BREFCOR); *TGRS April 2015 1855-1864*
- Schlapfer, D.**, see Weyermann, J., *TGRS Nov. 2015 5814-5823*
- Schmelzbach, C.**, and Huber, E., Efficient Deconvolution of Ground-Penetrating Radar Data; *TGRS Sept. 2015 5209-5217*
- Schoenmakers, A.**, see McKay-Bukowski, D., *TGRS March 2015 1440-1451*
- Schonlieb, C.**, see Lee, J., *TGRS Nov. 2015 6073-6084*
- Schreiner, B.**, see Cardellach, E., *TGRS Jan. 2015 190-206*
- Schuh, H.**, see Li, X., *TGRS Dec. 2015 6385-6393*
- Schultz, R.C.**, see Chang, C., *TGRS March 2015 1626-1637*
- Schwank, M.**, see Jonard, F., *TGRS June 2015 3095-3109*
- Schwarting, T.**, see Oudrari, H., *TGRS April 2015 2195-2210*
- Schwarting, T.**, see Lee, S., *TGRS Jan. 2015 324-334*
- Schwartzman, A.**, see Kachouie, N.N., *TGRS March 2015 1135-1149*
- Schwarzmaier, T.**, see Lenhard, K., *TGRS April 2015 1828-1841*
- Scott, W.R.**, see Krueger, K.R., *TGRS July 2015 4010-4021*
- Sedaghat, A.**, and Ebadi, H., Remote Sensing Image Matching Based on Adaptive Binning SIFT Descriptor; *TGRS Oct. 2015 5283-5293*
- Segl, K.**, Guanter, L., Gascon, F., Kuester, T., Rogass, C., and Mielke, C., S2eteS: An End-to-End Modeling Tool for the Simulation of Sentinel-2 Image Products; *TGRS Oct. 2015 5560-5571*
- Sekine, Y.**, see Yamamoto, S., *TGRS Feb. 2015 710-723*
- Senthil Kumar, A.**, see Malleswara Rao, J., *TGRS Nov. 2015 5853-5860*
- Seppanen, J.**, see Cohen, J., *TGRS Dec. 2015 6593-6607*
- Serafini, M.**, see Urbini, S., *TGRS March 2015 1558-1564*
- Serafino, F.**, see Granstrom, K., *TGRS Dec. 2015 6617-6631*
- Serra-Sagrista, J.**, see Blanes, I., *TGRS June 2015 3361-3372*
- Shafai, L.**, see Komarov, A.S., *TGRS July 2015 4063-4078*
- Shafait, F.**, see Akhtar, N., *TGRS April 2015 2157-2174*
- Shahzad, M.**, and Zhu, X.X., Robust Reconstruction of Building Facades for Large Areas Using Spaceborne TomoSAR Point Clouds; *TGRS Feb. 2015 752-769*
- Shang, F.**, and Hirose, A., Averaged Stokes Vector Based Polarimetric SAR Data Interpretation; *TGRS Aug. 2015 4536-4547*
- Shang, J.**, see McNairn, H., *TGRS May 2015 2784-2801*
- Shangguan, P.**, and Al-Qadi, I.L., Calibration of FDTD Simulation of GPR Signal for Asphalt Pavement Compaction Monitoring; *TGRS March 2015 1538-1548*
- Shen, F.**, see Liu, B., *TGRS Feb. 2015 810-827*
- Shen, H.**, see Yang, G., *TGRS Nov. 2015 6008-6021*
- Shen, L.**, see Jia, S., *TGRS Feb. 2015 1118-1129*
- Shen, X.**, see Chen, S., *TGRS Aug. 2015 4444-4456*

S

- Saatchi, S.**, see Truong-Loi, M., *TGRS April 2015 1718-1727*
- Saatchi, S.**, see Basu, S., *TGRS Oct. 2015 5690-5708*
- Saatchi, S.**, see Oveisgharan, S., *TGRS Dec. 2015 6561-6572*
- Saba, J.L.**, see Leigh, H.W., *TGRS April 2015 2011-2020*
- Sadler, B.M.**, see Ramirez, A., *TGRS Jan. 2015 405-415*
- Said, F.**, Johnsen, H., Chapron, B., and Engen, G., An Ocean Wind Doppler Model Based on the Generalized Curvature Ocean Surface Scattering Model; *TGRS Dec. 2015 6632-6638*
- Sakamoto, T.**, Sato, T., Aubry, P.J., and Yarovoy, A.G., Texture-Based Automatic Separation of Echoes from Distributed Moving Targets in UWB Radar Signals; *TGRS Jan. 2015 352-361*
- Salomonson, V.**, see Xiong, X., *TGRS Oct. 2015 5709-5721*

- Shen, X.**, Hong, Y., Qin, Q., Basara, J.B., Mao, K., and Wang, D., A Semi-physical Microwave Surface Emission Model for Soil Moisture Retrieval; *TGRS July 2015* 4079-4090
- Shengwei, Z.**, see Jieying, H., *TGRS Jan. 2015* 481-493
- Shepherd, A.**, see Jung, H., *TGRS Nov. 2015* 6196-6206
- Shi, C.**, Liu, F., Li, L., Jiao, L., Duan, Y., and Wang, S., Learning Interpolation via Regional Map for Pan-Sharpness; *TGRS June 2015* 3417-3431
- Shi, G.**, Li, C., Ren, T., and Wang, Y., Retrieval of Atmospheric Aerosol and Surface Properties Over Land Using Satellite Observations; *TGRS Feb. 2015* 1039-1047
- Shi, J.**, Xu, C., Guo, J., and Gao, Y., Real-Time GPS Precise Point Positioning-Based Precipitable Water Vapor Estimation for Rainfall Monitoring and Forecasting; *TGRS June 2015* 3452-3459
- Shi, J.**, see Xiong, C., *TGRS Sept. 2015* 4862-4875
- Shi, Q.**, Du, B., and Zhang, L., Domain Adaptation for Remote Sensing Image Classification: A Low-Rank Reconstruction and Instance Weighting Label Propagation Inspired Algorithm; *TGRS Oct. 2015* 5677-5689
- Shi, Q.**, see Wang, D., *TGRS Oct. 2015* 5519-5529
- Shi, S.**, Chen, G., Yang, G., Li, T., Zhao, Z., and Liu, J., Wuhan Ionospheric Oblique-Incidence Sounding System and Its New Application in Localization of Ionospheric Irregularities; *TGRS April 2015* 2185-2194
- Shi, W.**, see Wang, Q., *TGRS April 2015* 1692-1706
- Shi, W.**, see Li, Z., *TGRS Feb. 2015* 883-899
- Shi, W.**, see Wang, Q., *TGRS Jan. 2015* 309-323
- Shi, W.**, see Li, Z., *TGRS Oct. 2015* 5794
- Shi, Z.**, see Zhou, J., *TGRS March 2015* 1638-1655
- Shi, Z.**, see Yang, S., *TGRS June 2015* 3389-3404
- Shi, Z.**, see Tang, W., *TGRS Feb. 2015* 770-783
- Shibata, A.**, see Kazumori, M., *TGRS Nov. 2015* 5901-5914
- Shibata, H.**, see Motohka, T., *TGRS April 2015* 1683-1691
- Shimabukuro, Y.E.**, see Zanotta, D.C., *TGRS July 2015* 3707-3719
- Shimada, M.**, see Motohka, T., *TGRS April 2015* 1683-1691
- Shimada, M.**, see Watanabe, M., *TGRS Nov. 2015* 5799-5813
- Shimomura, T.**, see Ebihara, S., *TGRS April 2015* 1842-1854
- Shimoni, M.**, see Cubero-Castan, M., *TGRS April 2015* 1894-1906
- Shiraishi, T.**, see Watanabe, M., *TGRS Nov. 2015* 5799-5813
- Shishegar, A.A.**, see Barzegar-Parizi, S., *TGRS Feb. 2015* 862-868
- Shu, Y.**, see Zhang, X., *TGRS Feb. 2015* 1105-1117
- Shu, Y.**, Tang, H., Li, J., Mao, T., He, S., Gong, A., Chen, Y., and Du, H., Object-Based Unsupervised Classification of VHR Panchromatic Satellite Images by Combining the HDP and IBP on Multiple Scenes; *TGRS Nov. 2015* 6148-6162
- Simila, M.**, see Makynen, M., *TGRS Sept. 2015* 5036-5053
- Simoës, M.**, see Vivone, G., *TGRS April 2015* 1997-2010
- Simoës, M.**, Bioucas-Dias, J., Almeida, L.B., and Chanussot, J., A Convex Formulation for Hyperspectral Image Superresolution via Subspace-Based Regularization; *TGRS June 2015* 3373-3388
- Sivjee, M.G.**, see Hall, J.L., *TGRS Oct. 2015* 5447-5457
- Skjetne, R.**, see Zhang, Q., *TGRS May 2015* 2913-2924
- Skrunes, S.**, Brekke, C., Eltoft, T., and Kudryavtsev, V., Comparing Near-Coincident C- and X-Band SAR Acquisitions of Marine Oil Spills; *TGRS April 2015* 1958-1975
- Small, D.**, see Henke, D., *TGRS June 2015* 3146-3159
- Small, E.E.**, see Chew, C.C., *TGRS May 2015* 2755-2764
- Smith, G.L.**, Wong, T., and Bush, K.A., Time-Sampling Errors of Earth Radiation From Satellites: Theory for Outgoing Longwave Radiation; *TGRS March 2015* 1656-1665
- Smith, G.L.**, see Daniels, J.L., *TGRS Sept. 2015* 5110-5116
- Smith, W.H.F.**, and Scharroo, R., Waveform Aliasing in Satellite Radar Altimetry; *TGRS April 2015* 1671-1682
- Smith, W.L.**, see Daniels, T., *TGRS Dec. 2015* 6336-6343
- Soares, P.**, see Ferraz, A., *TGRS Dec. 2015* 6776-6790
- Sobrinho, J.A.**, see Julien, Y., *TGRS Aug. 2015* 4231-4237
- Soden, B.J.**, see Moradi, I., *TGRS Dec. 2015* 6675-6688
- Soja, M.J.**, Persson, H.J., and Ulander, L.M.H., Corrections to "Estimation of Forest Biomass From Two-Level Model Inversion of Single-Pass InSAR Data" {Sep 15 5083-5099}; *TGRS Oct. 2015* 5795
- Soja, M.J.**, Persson, H.J., and Ulander, L.M.H., Estimation of Forest Biomass From Two-Level Model Inversion of Single-Pass InSAR Data; *TGRS Sept. 2015* 5083-5099
- Solberg, S.**, Weydahl, D.J., and Astrup, R., Temporal Stability of X-Band Single-Pass InSAR Heights in a Spruce Forest: Effects of Acquisition Properties and Season; *TGRS March 2015* 1607-1614
- Solberg, S.**, Riegler, G., and Nonin, P., Estimating Forest Biomass From TerraSAR-X Stripmap Radargrammetry; *TGRS Jan. 2015* 154-161
- Soldovieri, F.**, see Catapano, I., *TGRS Oct. 2015* 5624-5633
- Soldovieri, F.**, see Gennarelli, G., *TGRS Dec. 2015* 6482-6494
- Soltani-Farani, A.**, Rabiee, H.R., and Hosseini, S.A., Spatial-Aware Dictionary Learning for Hyperspectral Image Classification; *TGRS Jan. 2015* 527-541
- Song, H.**, Huang, B., Liu, Q., and Zhang, K., Improving the Spatial Resolution of Landsat TM/ETM+ Through Fusion With SPOT5 Images via Learning-Based Super-Resolution; *TGRS March 2015* 1195-1204
- Song, J.**, see Xiao, Z., *TGRS June 2015* 3178-3197
- Song, L.**, Oldenburg, D.W., Pasion, L.R., Billings, S.D., and Beran, L., Temporal Orthogonal Projection Inversion for EMI Sensing of UXO; *TGRS Feb. 2015* 1061-1072
- Song, M.**, and Chang, C., A Theory of Recursive Orthogonal Subspace Projection for Hyperspectral Imaging; *TGRS June 2015* 3055-3072
- Song, R.**, see Xu, K., *TGRS Feb. 2015* 841-850
- Song, Y.**, see Wu, T., *TGRS Jan. 2015* 102-116
- Soraghan, J.**, see Carotenuto, V., *TGRS June 2015* 3294-3311
- Sperling, A.**, see Lenhard, K., *TGRS Nov. 2015* 6085-6098
- Stankovic, S.**, see Besic, N., *TGRS March 2015* 1236-1247
- Stavrakoudis, D.G.**, see Mylonas, S.K., *TGRS Oct. 2015* 5352-5376
- Steele-Dunne, S.C.**, see van Emmerik, T., *TGRS July 2015* 3855-3869
- Stein, A.**, see Wu, T., *TGRS Jan. 2015* 102-116
- Stepanian, P.M.**, and Horton, K.G., Extracting Migrant Flight Orientation Profiles Using Polarimetric Radar; *TGRS Dec. 2015* 6518-6528
- Stepinski, T.F.**, see Netzel, P., *TGRS April 2015* 1773-1781
- Stoffelen, A.**, see Lin, W., *TGRS Aug. 2015* 4165-4177
- Stoffelen, A.**, see Fois, F., *TGRS Sept. 2015* 5009-5020
- Stolkin, R.**, see Li, Y., *TGRS Aug. 2015* 4712-4723
- Studinger, M.**, see Yi, D., *TGRS March 2015* 1403-1410
- Studinger, M.**, see Onana, V.d.P., *TGRS Jan. 2015* 51-69
- Stuurwold, K.**, see McKay-Bukowski, D., *TGRS March 2015* 1440-1451
- Su, H.**, see Li, W., *TGRS July 2015* 3681-3693
- Su, H.**, see Xue, Z., *TGRS Nov. 2015* 6114-6133
- Su, T.**, see Zheng, J., *TGRS Sept. 2015* 4727-4740
- Sudre, J.**, Yahia, H., Pont, O., and Garçon, V., Ocean Turbulent Dynamics at Superresolution From Optimal Multiresolution Analysis and Multiplicative Cascade; *TGRS Nov. 2015* 6274-6285
- Sui, H.**, Xu, C., Liu, J., and Hua, F., Automatic Optical-to-SAR Image Registration by Iterative Line Extraction and Voronoi Integrated Spectral Point Matching; *TGRS Nov. 2015* 6058-6072
- Sumarsono, A.**, and Du, Q., Low-Rank Subspace Representation for Estimating the Number of Signal Subspaces in Hyperspectral Imagery; *TGRS Nov. 2015* 6286-6292
- Sun, J.**, see Oudrari, H., *TGRS April 2015* 2195-2210
- Sun, J.**, Madhavan, S., Xiong, X., and Wang, M., Investigation of the Electronic Crosstalk in Terra MODIS Band 28; *TGRS Oct. 2015* 5722-5733
- Sun, L.**, Wu, Z., Liu, J., Xiao, L., and Wei, Z., Supervised Spectral-Spatial Hyperspectral Image Classification With Weighted Markov Random Fields; *TGRS March 2015* 1490-1503
- Sun, S.**, Zhong, P., Xiao, H., and Wang, R., Active Learning With Gaussian Process Classifier for Hyperspectral Image Classification; *TGRS April 2015* 1746-1760
- Sun, S.**, Zhu, G., and Jin, T., Novel Methods to Accelerate CS Radar Imaging by NUFFT; *TGRS Jan. 2015* 557-566
- Sun, T.**, see Feng, J., *TGRS May 2015* 2956-2969
- Sun, W.**, see Zhang, C., *TGRS Jan. 2015* 207-218
- Sun, X.**, Nasrabadi, N.M., and Tran, T.D., Task-Driven Dictionary Learning for Hyperspectral Image Classification With Structured Sparsity Constraints; *TGRS Aug. 2015* 4457-4471
- Sun, X.**, and Neumann, G.A., Calibration of the Mercury Laser Altimeter on the MESSENGER Spacecraft; *TGRS May 2015* 2860-2874
- Sun, Y.**, see Zeng, T., *TGRS Dec. 2015* 6718-6734
- Sun, Z.**, Li, C., Gao, X., and Fang, G., Minimum-Entropy-Based Adaptive Focusing Algorithm for Image Reconstruction of Terahertz Single-Frequency Holography With Improved Depth of Focus; *TGRS Jan. 2015* 519-526
- Sun, Z.**, Fang, H., Deng, M., Chen, A., Yue, P., and Di, L., Regular Shape Similarity Index: A Novel Index for Accurate Extraction of Regular Objects From Remote Sensing Images; *TGRS July 2015* 3737-3748
- Suresh, G.**, Melsheimer, C., Korber, J., and Bohrmann, G., Automatic Estimation of Oil Spill Locations in Synthetic Aperture Radar Images; *TGRS Aug. 2015* 4218-4230
- Sveinsson, J.R.**, see Palsson, F., *TGRS May 2015* 2652-2663

T

- Tabacco, I.E.**, see Urbini, S., *TGRS March 2015 1558-1564*
- Tabatabaenejad, A.**, Burgin, M., Duan, X., and Moghaddam, M., P-Band Radar Retrieval of Subsurface Soil Moisture Profile as a Second-Order Polynomial: First AirMOSS Results; *TGRS Feb. 2015 645-658*
- Tadono, T.**, see Motohka, T., *TGRS April 2015 1683-1691*
- Tahanout, M.**, Adane, A.E.H., and Parent du Chatelet, J., An Improved M-PRT Technique for Spectral Analysis of Weather Radar Observations; *TGRS Oct. 2015 5572-5582*
- Talmon, R.**, see Mishne, G., *TGRS May 2015 2738-2754*
- Tan, Y.**, see Wang, L., *TGRS May 2015 2948-2955*
- Tang, H.**, see Shu, Y., *TGRS Nov. 2015 6148-6162*
- Tang, J.**, Deng, C., Huang, G., and Zhao, B., Compressed-Domain Ship Detection on Spaceborne Optical Image Using Deep Neural Network and Extreme Learning Machine; *TGRS March 2015 1174-1185*
- Tang, J.**, see Yao, Y., *TGRS May 2015 2373-2383*
- Tang, K.**, see Wan, L., *TGRS May 2015 2384-2396*
- Tang, Q.**, see Zhu, Y., *TGRS Sept. 2015 5021-5035*
- Tang, S.**, Zhang, L., Guo, P., Liu, G., Zhang, Y., Li, Q., Gu, Y., and Lin, C., Processing of Monostatic SAR Data With General Configurations; *TGRS Dec. 2015 6529-6546*
- Tang, W.**, see Yang, S., *TGRS June 2015 3389-3404*
- Tang, W.**, Shi, Z., Wu, Y., and Zhang, C., Sparse Unmixing of Hyperspectral Data Using Spectral *A Priori* Information; *TGRS Feb. 2015 770-783*
- Tang, W.**, see Han, M., *TGRS May 2015 2775-2783*
- Tang, X.**, see Tong, X., *TGRS June 2015 3522-3534*
- Tang, X.**, see Zhang, G., *TGRS Feb. 2015 933-941*
- Tang, X.**, see Jiang, Y., *TGRS July 2015 3985-3995*
- Tang, Y.Y.**, Lu, Y., and Yuan, H., Hyperspectral Image Classification Based on Three-Dimensional Scattering Wavelet Transform; *TGRS May 2015 2467-2480*
- Tao, J.**, see Auer, S., *TGRS May 2015 2727-2737*
- Tao, M.**, Zhou, F., Liu, Y., and Zhang, Z., Tensorial Independent Component Analysis-Based Feature Extraction for Polarimetric SAR Data Classification; *TGRS May 2015 2481-2495*
- Taubenbock, H.**, see Geiss, C., *TGRS Aug. 2015 4348-4362*
- Tebaldini, S.**, see Villa, A., *TGRS Feb. 2015 674-686*
- Tebaldini, S.**, see Ho Tong Minh, D., *TGRS Feb. 2015 965-975*
- Teng, K.C.**, Koay, J.Y., Tey, S.H., Lim, K.S., Ewe, H.T., and Chuah, H.T., A Dense Medium Microwave Backscattering Model for the Remote Sensing of Oil Palm; *TGRS June 2015 3250-3259*
- Tey, S.H.**, see Teng, K.C., *TGRS June 2015 3250-3259*
- Thapa, R.B.**, see Watanabe, M., *TGRS Nov. 2015 5799-5813*
- Theocharis, J.B.**, see Mylonas, S.K., *TGRS Oct. 2015 5352-5376*
- Thomas, S.**, see Daniels, J.L., *TGRS Sept. 2015 5110-5116*
- Thome, K.**, see Lukashin, C., *TGRS Dec. 2015 6703-6709*
- Thompson, D.R.**, see Bue, B.D., *TGRS Dec. 2015 6419-6428*
- Tian, J.**, see Ma, J., *TGRS Dec. 2015 6469-6481*
- Tian, W.**, see Zeng, T., *TGRS Oct. 2015 5760-5773*
- Tian, W.**, see Zeng, T., *TGRS Nov. 2015 5835-5852*
- Tian, Y.**, see Chen, S., *TGRS April 2015 1947-1957*
- Tian, Y.**, see Chen, S., *TGRS Aug. 2015 4434-4443*
- Tian, Y.**, see Chen, S., *TGRS Aug. 2015 4444-4456*
- Tian, Y.**, see Zhang, Q., *TGRS Jan. 2015 261-279*
- Tiana-Alsina, J.**, see Lange, D., *TGRS June 2015 3338-3349*
- Titchenko, Y.A.**, Karaev, V.Y., Meshkov, E.M., and Zuikova, E.M., Measuring the Variance of the Vertical Orbital Velocity Component by an Acoustic Wave Gauge With a Single Transceiver Antenna; *TGRS Aug. 2015 4340-4347*
- Tivive, F.H.C.**, Bouzerdoum, A., and Amin, M.G., A Subspace Projection Approach for Wall Clutter Mitigation in Through-the-Wall Radar Imaging; *TGRS April 2015 2108-2122*
- Toci, G.**, see Matteoli, S., *TGRS Jan. 2015 375-393*
- Tokarczyk, P.**, Wegner, J.D., Walk, S., and Schindler, K., Features, Color Spaces, and Boosting: New Insights on Semantic Classification of Remote Sensing Images; *TGRS Jan. 2015 280-295*
- Tomas, S.**, see Cardellach, E., *TGRS Jan. 2015 190-206*
- Tome, M.**, see Ferraz, A., *TGRS Dec. 2015 6776-6790*
- Tomer, S.K.**, see Verhoest, N.E.C., *TGRS June 2015 3507-3521*
- Tong, L.**, see Cheng, L., *TGRS June 2015 3235-3249*
- Tong, X.**, Xu, Y., Ye, Z., Liu, S., Tang, X., Li, L., Xie, H., and Xie, J., Attitude Oscillation Detection of the ZY-3 Satellite by Using Multispectral Parallax Images; *TGRS June 2015 3522-3534*
- Tong, X.**, Ye, Z., Xu, Y., Liu, S., Li, L., Xie, H., and Li, T., A Novel Subpixel Phase Correlation Method Using Singular Value Decomposition and Unified Random Sample Consensus; *TGRS Aug. 2015 4143-4156*
- Tong, X.**, see Wang, Z., *TGRS May 2015 2409-2425*
- Torres-Verdin, C.**, see Yang, K., *TGRS Aug. 2015 4605-4615*
- Torrione, P.A.**, see Manandhar, A., *TGRS April 2015 1737-1745*
- Toure, A.M.**, see Kwon, Y., *TGRS Sept. 2015 5247-5268*
- Tourneret, J.**, see Halimi, A., *TGRS Feb. 2015 598-608*
- Tourneret, J.**, see Wei, Q., *TGRS July 2015 3658-3668*
- Touzi, R.**, Hurley, J., and Vachon, P.W., Optimization of the Degree of Polarization for Enhanced Ship Detection Using Polarimetric RADARSAT-2; *TGRS Oct. 2015 5403-5424*
- Townsend, P.A.**, see Zhang, J., *TGRS March 2015 1574-1582*
- Tran, T.D.**, see Sun, X., *TGRS Aug. 2015 4457-4471*
- Tratt, D.M.**, see Hall, J.L., *TGRS Oct. 2015 5447-5457*
- Truong-Loi, M.**, Saatchi, S., and Jaruwatanadilok, S., Soil Moisture Estimation Under Tropical Forests Using UHF Radar Polarimetry; *TGRS April 2015 1718-1727*
- Tsang, L.**, see Jezek, K.C., *TGRS Jan. 2015 134-143*
- Tuia, D.**, see Matasci, G., *TGRS July 2015 3550-3564*
- Tupin, F.**, see Poisson, J., *TGRS April 2015 1976-1984*
- Tupin, F.**, see Deledalle, C., *TGRS April 2015 2021-2038*
- Tupin, F.**, see Dellinger, F., *TGRS Jan. 2015 453-466*
- Turiel, A.**, see Lin, W., *TGRS Aug. 2015 4165-4177*
- Turk, F.J.**, see Cardellach, E., *TGRS Jan. 2015 190-206*
- Turunen, E.**, see McKay-Bukowski, D., *TGRS March 2015 1440-1451*

U

- Uchimura, R.**, see Ebihara, S., *TGRS April 2015 1842-1854*
- Uebbing, B.**, Kusche, J., and Forootan, E., Waveform Retracking for Improving Level Estimations From TOPEX/Poseidon, Jason-1, and Jason-2 Altimetry Observations Over African Lakes; *TGRS April 2015 2211-2224*
- Ulander, L.M.H.**, see Soja, M.J., *TGRS Oct. 2015 5795*
- Ulander, L.M.H.**, see Soja, M.J., *TGRS Sept. 2015 5083-5099*
- Ulfarsson, M.O.**, see Palsson, F., *TGRS May 2015 2652-2663*
- Ulich, T.**, see McKay-Bukowski, D., *TGRS March 2015 1440-1451*
- Upla, K.P.**, Joshi, M.V., and Gajjar, P.P., An Edge Preserving Multiresolution Fusion: Use of Contourlet Transform and MRF Prior; *TGRS June 2015 3210-3220*
- Urbas, A.**, see Jang, W., *TGRS June 2015 3471-3480*
- Urbini, S.**, Cafarella, L., Tabacco, I.E., Baskaradas, J.A., Serafini, M., and Zirizzotti, A., RES Signatures of Ice Bottom Near to Dome C (Antarctica); *TGRS March 2015 1558-1564*

V

- Vachon, P.W.**, see Touzi, R., *TGRS Oct. 2015 5403-5424*
- van de Giesen, N.**, see van Emmerik, T., *TGRS July 2015 3855-3869*
- van den Berg, M.J.**, see Verhoest, N.E.C., *TGRS June 2015 3507-3521*
- van Emmerik, T.**, Steele-Dunne, S.C., Judge, J., and van de Giesen, N., Impact of Diurnal Variation in Vegetation Water Content on Radar Backscatter From Maize During Water Stress; *TGRS July 2015 3855-3869*
- Vasile, G.**, see Besic, N., *TGRS March 2015 1236-1247*
- Vasile, G.**, see Anghel, A., *TGRS Aug. 2015 4379-4393*
- Veganzones, M.A.**, see Marrero, R., *TGRS July 2015 3772-3790*
- Verde, S.**, see Fornaro, G., *TGRS April 2015 2050-2065*
- Verdoliva, L.**, see Gaetano, R., *TGRS June 2015 2987-3004*
- Verrecken, H.**, see Jonard, F., *TGRS June 2015 3095-3109*
- Verhoef, A.**, see Lin, W., *TGRS Aug. 2015 4165-4177*
- Verhoest, N.E.C.**, van den Berg, M.J., Martens, B., Lievens, H., Wood, E.F., Pan, M., Kerr, Y.H., Al Bitar, A., Tomer, S.K., Drusch, M., Vernieuwe, H., De Baets, B., Walker, J.P., Dumedah, G., and Pauwels, V.R.N., Copula-Based Downscaling of Coarse-Scale Soil Moisture Observations With Implicit Bias Correction; *TGRS June 2015 3507-3521*
- Verhoest, N.E.C.**, see Martens, B., *TGRS July 2015 4091-4103*
- Vermote, E.**, see Breon, F., *TGRS Aug. 2015 4638-4649*
- Vernieuwe, H.**, see Verhoest, N.E.C., *TGRS June 2015 3507-3521*
- Vicente-Guijalba, F.**, Martinez-Marin, T., and Lopez-Sanchez, J.M., Dynamical Approach for Real-Time Monitoring of Agricultural Crops; *TGRS June 2015 3278-3293*
- Vierinen, J.**, see McKay-Bukowski, D., *TGRS March 2015 1440-1451*

- Villa, A., Iannini, L., Giudici, D., Monti-Guarnieri, A., and Tebaldini, S., Calibration of SAR Polarimetric Images by Means of a Covariance Matching Approach; *TGRS Feb. 2015 674-686*
- Villard, L., see Ho Tong Minh, D., *TGRS Feb. 2015 965-975*
- Virtanen, I.L., see McKay-Bukowski, D., *TGRS March 2015 1440-1451*
- Vivone, G., Simoes, M., Dalla Mura, M., Restaino, R., Bioucas-Dias, J.M., Licciardi, G.A., and Chanussot, J., Pansharpening Based on Semiblind Deconvolution; *TGRS April 2015 1997-2010*
- Vivone, G., Alparone, L., Chanussot, J., Dalla Mura, M., Garzelli, A., Licciardi, G.A., Restaino, R., and Wald, L., A Critical Comparison Among Pansharpening Algorithms; *TGRS May 2015 2565-2586*
- Vivone, G., Braca, P., and Horstmann, J., Knowledge-Based Multitarget Ship Tracking for HF Surface Wave Radar Systems; *TGRS July 2015 3931-3949*
- Vivone, G., see Gennarelli, G., *TGRS Dec. 2015 6482-6494*
- Volpi, M., see Matusci, G., *TGRS July 2015 3550-3564*
- von Lerber, A., Moiseev, D., Leinonen, J., Koistinen, J., and Hallikainen, M.T., Modeling Radar Attenuation by a Low Melting Layer With Optimized Model Parameters at C-Band; *TGRS Feb. 2015 724-737*
- Vongsy, K., Eismann, M.T., and Mendenhall, M.J., Extension of the Linear Chromodynamics Model for Spectral Change Detection in the Presence of Residual Spatial Misregistration; *TGRS June 2015 3005-3021*
- Votava, P., see Basu, S., *TGRS Oct. 2015 5690-5708*
- W**
- Wackerman, C., see Horstmann, J., *TGRS May 2015 2887-2898*
- Wald, L., see Vivone, G., *TGRS May 2015 2565-2586*
- Walk, S., see Tokarczyk, P., *TGRS Jan. 2015 280-295*
- Walker, D.T., see Romeiser, R., *TGRS March 2015 1320-1345*
- Walker, J.P., see Wu, X., *TGRS April 2015 1921-1934*
- Walker, J.P., see Verhoest, N.E.C., *TGRS June 2015 3507-3521*
- Walker, J.P., see Ye, N., *TGRS July 2015 3906-3916*
- Wan, J., Guo, W., Zhao, F., Wang, C., and Liu, P., HY-2A Radar Altimeter Ultraportable Oscillator Drift Estimation Using Reconstructive Transponder With Its Validation By Multimission Cross Calibration; *TGRS Sept. 2015 5229-5236*
- Wan, L., Tang, K., Li, M., Zhong, Y., and Qin, A.K., Collaborative Active and Semisupervised Learning for Hyperspectral Remote Sensing Image Classification; *TGRS May 2015 2384-2396*
- Wan, X., Liu, J., and Yan, H., The Illumination Robustness of Phase Correlation for Image Alignment; *TGRS Oct. 2015 5746-5759*
- Wang, B., see Pu, H., *TGRS March 2015 1287-1303*
- Wang, C., see Guan, H., *TGRS March 2015 1527-1537*
- Wang, C., see Yu, Y., *TGRS March 2015 1374-1386*
- Wang, C., Zhang, M., Xu, Z., Chen, C., and Guo, L., Cubic Phase Distortion and Irregular Degradation on SAR Imaging Due to the Ionosphere; *TGRS June 2015 3442-3451*
- Wang, C., see Zhou, X., *TGRS May 2015 2640-2651*
- Wang, C., see Wan, J., *TGRS Sept. 2015 5229-5236*
- Wang, D., see Shen, X., *TGRS July 2015 4079-4090*
- Wang, D., Liang, S., He, T., and Shi, Q., Estimation of Daily Surface Shortwave Net Radiation From the Combined MODIS Data; *TGRS Oct. 2015 5519-5529*
- Wang, F., Eibert, T.F., and Jin, Y., Simulation of ISAR Imaging for a Space Target and Reconstruction Under Sparse Sampling via Compressed Sensing; *TGRS June 2015 3432-3441*
- Wang, H., see Guan, H., *TGRS March 2015 1527-1537*
- Wang, J., see Li, Z., *TGRS March 2015 1355-1363*
- Wang, J., see Xiao, Z., *TGRS June 2015 3178-3197*
- Wang, J., see Wu, T., *TGRS Jan. 2015 102-116*
- Wang, J., and Xu, X., Simulation of Correlated Low-Grazing-Angle Sea Clutter Based on Phase Retrieval; *TGRS July 2015 3917-3930*
- Wang, J., Cao, X., Chen, J., and Jia, X., Assessment of Multiple Scattering in the Reflectance of Semiarid Shrublands; *TGRS Sept. 2015 4910-4921*
- Wang, J., Chen, L., Liang, X., Ding, C., and Li, K., Implementation of the OFDM Chirp Waveform on MIMO SAR Systems; *TGRS Sept. 2015 5218-5228*
- Wang, J., and Morton, Y.T., High-Latitude Ionospheric Irregularity Drift Velocity Estimation Using Spaced GPS Receiver Carrier Phase Time-Frequency Analysis; *TGRS Nov. 2015 6099-6113*
- Wang, J.Z., see Espinola, M., *TGRS Feb. 2015 795-809*
- Wang, L., Li, L., and Tan, Y., A Novel Approximate Solution for Electromagnetic Scattering by Dielectric Disks; *TGRS May 2015 2948-2955*
- Wang, L., see Li, X., *TGRS Sept. 2015 4985-4996*
- Wang, M., see Sun, J., *TGRS Oct. 2015 5722-5733*
- Wang, M., see Yang, S., *TGRS Nov. 2015 5943-5957*
- Wang, N., Du, B., Zhang, L., and Zhang, L., An Abundance Characteristic-Based Independent Component Analysis for Hyperspectral Unmixing; *TGRS Jan. 2015 416-428*
- Wang, P., Liu, W., Chen, J., Niu, M., and Yang, W., A High-Order Imaging Algorithm for High-Resolution Spaceborne SAR Based on a Modified Equivalent Squint Range Model; *TGRS March 2015 1225-1235*
- Wang, P., see Xu, F., *TGRS June 2015 3042-3054*
- Wang, Q., Atkinson, P.M., and Shi, W., Fast Subpixel Mapping Algorithms for Subpixel Resolution Change Detection; *TGRS April 2015 1692-1706*
- Wang, Q., see Li, Z., *TGRS Feb. 2015 883-899*
- Wang, Q., see Yuan, Y., *TGRS Feb. 2015 620-630*
- Wang, Q., see Yuan, Y., *TGRS Feb. 2015 631-644*
- Wang, Q., Atkinson, P.M., and Shi, W., Indicator Cokriging-Based Subpixel Mapping Without Prior Spatial Structure Information; *TGRS Jan. 2015 309-323*
- Wang, Q., see Gu, Y., *TGRS Oct. 2015 5312-5326*
- Wang, Q., see Li, Z., *TGRS Oct. 2015 5794*
- Wang, R., see Sun, S., *TGRS April 2015 1746-1760*
- Wang, S., see Shi, C., *TGRS June 2015 3417-3431*
- Wang, S., see Xiong, T., *TGRS Feb. 2015 1016-1028*
- Wang, S., see Ma, C., *TGRS Oct. 2015 5613-5623*
- Wang, S., see Yu, Z., *TGRS Sept. 2015 4825-4836*
- Wang, T., see Zhang, G., *TGRS Feb. 2015 933-941*
- Wang, T., see Xiong, C., *TGRS Sept. 2015 4862-4875*
- Wang, W., MIMO SAR OFDM Chirp Waveform Diversity Design With Random Matrix Modulation; *TGRS March 2015 1615-1625*
- Wang, W., see Wu, Y., *TGRS Jan. 2015 440-452*
- Wang, X., see Guo, Q., *TGRS May 2015 2397-2408*
- Wang, X., see Gao, G., *TGRS July 2015 3582-3599*
- Wang, X., see Gao, G., *TGRS July 2015 3565-3581*
- Wang, X., see Jia, K., *TGRS Sept. 2015 4787-4796*
- Wang, Y., and Du, Y., Extension of the Spectral Acceleration Method to Lossy Medium and Its Application to Electromagnetic Scattering From Rough Surfaces; *TGRS April 2015 1865-1875*
- Wang, Y., see Chang, C., *TGRS March 2015 1626-1637*
- Wang, Y., see Lee, J., *TGRS March 2015 1150-1160*
- Wang, Y., see Moon, T., *TGRS Aug. 2015 4328-4339*
- Wang, Y., see Xiong, T., *TGRS Feb. 2015 1016-1028*
- Wang, Y., see Shi, G., *TGRS Feb. 2015 1039-1047*
- Wang, Y., see Yang, J., *TGRS Feb. 2015 920-932*
- Wang, Y., see Zhuge, X., *TGRS Oct. 2015 5661-5676*
- Wang, Y., see Liang, X., *TGRS Sept. 2015 5117-5132*
- Wang, Z., Nasrabadi, N.M., and Huang, T.S., Semisupervised Hyperspectral Classification Using Task-Driven Dictionary Learning With Laplacian Regularization; *TGRS March 2015 1161-1173*
- Wang, Z., Zhang, L., Fang, T., Mathiopoulos, P.T., Tong, X., Qu, H., Xiao, Z., Li, F., and Chen, D., A Multiscale and Hierarchical Feature Extraction Method for Terrestrial Laser Scanning Point Cloud Classification; *TGRS May 2015 2409-2425*
- Wang, Z., see Xiong, X., *TGRS Oct. 2015 5709-5721*
- Wang, Z., Xiong, X., and Li, Y., Update of VIIRS On-Orbit Spatial Parameters Characterized With the Moon; *TGRS Oct. 2015 5486-5494*
- Wang, Z., see Lei, N., *TGRS Nov. 2015 5983-5990*
- Warren, D.W., see Hall, J.L., *TGRS Oct. 2015 5447-5457*
- Watanabe, M., Motohka, T., Shiraishi, T., Thapa, R.B., Yonezawa, C., Nakamura, K., and Shimada, M., Multitemporal Fluctuations in L-Band Backscatter From a Japanese Forest; *TGRS Nov. 2015 5799-5813*
- Wegner, J.D., see Tokarczyk, P., *TGRS Jan. 2015 280-295*
- Wei, Q., Bioucas-Dias, J., Dobigeon, N., and Tourneret, J., Hyperspectral and Multispectral Image Fusion Based on a Sparse Representation; *TGRS July 2015 3658-3668*
- Wei, Z., see Sun, L., *TGRS March 2015 1490-1503*
- Weihermuller, L., see Jonard, F., *TGRS June 2015 3095-3109*
- Wen, J., see Han, M., *TGRS May 2015 2775-2783*
- Weng, F., see Chang, T., *TGRS May 2015 2286-2294*
- Weng, F., see Moradi, I., *TGRS Nov. 2015 5915-5925*
- Wenny, B.N., see Xiong, X., *TGRS Oct. 2015 5709-5721*
- Wenny, B.N., see Wu, A., *TGRS Sept. 2015 4741-4751*
- Weydahl, D.J., see Solberg, S., *TGRS March 2015 1607-1614*
- Weyermann, J., Kneubuhler, M., Schlapfer, D., and Schaepman, M.E., Minimizing Reflectance Anisotropy Effects in Airborne Spectroscopy

- Data Using Ross–Li Model Inversion With Continuous Field Land Cover Stratification; *TGRS Nov. 2015* 5814–5823
- Wickert, J., see Li, X., *TGRS Dec. 2015* 6385–6393
- Wiesbeck, W., see Kim, J., *TGRS May 2015* 2453–2466
- Wigneron, J., see Mialon, A., *TGRS June 2015* 3084–3094
- Williams, D.P., Fast Unsupervised Seafloor Characterization in Sonar Imagery Using Lacunarity; *TGRS Nov. 2015* 6022–6034
- Wimmer, C., see Perna, S., *TGRS May 2015* 2713–2726
- Wiseman, G., see McNairn, H., *TGRS May 2015* 2784–2801
- Wolfe, P.J., see Cha, M., *TGRS Dec. 2015* 6547–6560
- Wollack, E.J., see McLinden, M.L., *TGRS Dec. 2015* 6639–6649
- Wong, T., see Smith, G.L., *TGRS March 2015* 1656–1665
- Wonka, P., see Li, E., *TGRS Aug. 2015* 4483–4495
- Wood, E.F., see Verhoest, N.E.C., *TGRS June 2015* 3507–3521
- Wright, T., see Jung, H., *TGRS Nov. 2015* 6196–6206
- Wu, A., see Doelling, D.R., *TGRS Aug. 2015* 4520–4535
- Wu, A., see Xiong, X., *TGRS Oct. 2015* 5709–5721
- Wu, A., Xiong, X., Jin, Z., Lukashin, C., Wenny, B.N., and Butler, J.J., Sensitivity of Intercalibration Uncertainty of the CLARREO Reflected Solar Spectrometer Features; *TGRS Sept. 2015* 4741–4751
- Wu, B., see Yang, S., *TGRS Nov. 2015* 5943–5957
- Wu, B., Huang, B., and Zhang, L., An Error-Bound-Regularized Sparse Coding for Spatiotemporal Reflectance Fusion; *TGRS Dec. 2015* 6791–6803
- Wu, J., see Li, Z., *TGRS March 2015* 1355–1363
- Wu, J., see Zhang, C., *TGRS Jan. 2015* 207–218
- Wu, J., see Atwood, D.K., *TGRS Nov. 2015* 5972–5982
- Wu, M., see Liu, J., *TGRS March 2015* 1394–1402
- Wu, T., Ge, Y., Wang, J., Stein, A., Song, Y., Du, Y., and Ma, J., A WTLS-Based Method for Remote Sensing Imagery Registration; *TGRS Jan. 2015* 102–116
- Wu, W., see He, L., *TGRS May 2015* 2696–2712
- Wu, W., Guo, H., Li, X., Ferro-Famil, L., and Zhang, L., Urban Land Use Information Extraction Using the Ultrahigh-Resolution Chinese Airborne SAR Imagery; *TGRS Oct. 2015* 5583–5599
- Wu, X., Walker, J.P., Rudiger, C., Panciera, R., and Gray, D.A., Simulation of the SMAP Data Stream From SMAPEX Field Campaigns in Australia; *TGRS April 2015* 1921–1934
- Wu, X., see Chang, T., *TGRS May 2015* 2286–2294
- Wu, Y., see Zhong, Y., *TGRS March 2015* 1411–1426
- Wu, Y., see Tang, W., *TGRS Feb. 2015* 770–783
- Wu, Y., see Zhao, Y., *TGRS May 2015* 2765–2774
- Wu, Y., Wang, W., Zhao, S., and Liu, S., Dielectric Properties of Saline Soils and an Improved Dielectric Model in C-Band; *TGRS Jan. 2015* 440–452
- Wu, Y., see Jia, L., *TGRS July 2015* 3960–3973
- Wu, Y., see Zhang, P., *TGRS Sept. 2015* 4933–4951
- Wu, Z., see Sun, L., *TGRS March 2015* 1490–1503
- Wucknitz, O., see McKay-Bukowski, D., *TGRS March 2015* 1440–1451
- Wurm, M., see Geiss, C., *TGRS Aug. 2015* 4348–4362
- X**
- Xia, G., see Yang, W., *TGRS Aug. 2015* 4472–4482
- Xia, J., Chanussot, J., Du, P., and He, X., Spectral–Spatial Classification for Hyperspectral Data Using Rotation Forests With Local Feature Extraction and Markov Random Fields; *TGRS May 2015* 2532–2546
- Xia, J., Dalla Mura, M., Chanussot, J., Du, P., and He, X., Random Subspace Ensembles for Hyperspectral Image Classification With Extended Morphological Attribute Profiles; *TGRS Sept. 2015* 4768–4786
- Xia, W., see Pu, H., *TGRS March 2015* 1287–1303
- Xia, X., see Xu, G., *TGRS April 2015* 2123–2136
- Xia, X., see Zhang, S., *TGRS Feb. 2015* 687–709
- Xia, X., see Zhang, T., *TGRS Jan. 2015* 394–404
- Xiang, Z., see Han, G., *TGRS June 2015* 3221–3234
- Xiao, H., see Sun, S., *TGRS April 2015* 1746–1760
- Xiao, L., see Sun, L., *TGRS March 2015* 1490–1503
- Xiao, P., see Zhang, X., *TGRS July 2015* 3694–3706
- Xiao, R., see Chang, L., *TGRS May 2015* 2612–2620
- Xiao, Z., Liang, S., Wang, J., Xie, D., Song, J., and Fensholt, R., A Framework for Consistent Estimation of Leaf Area Index, Fraction of Absorbed Photosynthetically Active Radiation, and Surface Albedo from MODIS Time-Series Data; *TGRS June 2015* 3178–3197
- Xiao, Z., see Wang, Z., *TGRS May 2015* 2409–2425
- Xiao, Z., see Jia, K., *TGRS Sept. 2015* 4787–4796
- Xie, D., see Xiao, Z., *TGRS June 2015* 3178–3197
- Xie, H., see Tong, X., *TGRS June 2015* 3522–3534
- Xie, H., see Tong, X., *TGRS Aug. 2015* 4143–4156
- Xie, J., see Tong, X., *TGRS June 2015* 3522–3534
- Xie, Z., see Chen, Y., *TGRS Aug. 2015* 4616–4626
- Xing, C., see Chen, N., *TGRS Oct. 2015* 5504–5518
- Xing, M., see Xu, G., *TGRS April 2015* 2123–2136
- Xing, M., see Zhang, S., *TGRS Feb. 2015* 687–709
- Xing, M., see Liu, H., *TGRS Jan. 2015* 494–504
- Xing, M., see Yang, L., *TGRS Nov. 2015* 5958–5971
- Xiong, C., Shi, J., Ji, D., Wang, T., Xu, Y., and Zhao, T., A New Hybrid Snow Light Scattering Model Based on Geometric Optics Theory and Vector Radiative Transfer Theory; *TGRS Sept. 2015* 4862–4875
- Xiong, T., Wang, S., Hou, B., Wang, Y., and Liu, H., A Resample-Based SVA Algorithm for Sidelobe Reduction of SAR/ISAR Imagery With Noninteger Nyquist Sampling Rate; *TGRS Feb. 2015* 1016–1028
- Xiong, X., see Oudrari, H., *TGRS April 2015* 2195–2210
- Xiong, X., see Lei, N., *TGRS March 2015* 1565–1573
- Xiong, X., see Doelling, D.R., *TGRS Aug. 2015* 4520–4535
- Xiong, X., see Zhang, Y., *TGRS Feb. 2015* 976–987
- Xiong, X., see McIntire, J., *TGRS May 2015* 2354–2365
- Xiong, X., see Lee, S., *TGRS Jan. 2015* 324–334
- Xiong, X., see Zheng, M., *TGRS July 2015* 3847–3854
- Xiong, X., Wu, A., Wenny, B.N., Madhavan, S., Wang, Z., Li, Y., Chen, N., Barnes, W., and Salomonson, V., Terra and Aqua MODIS Thermal Emissive Bands On-Orbit Calibration and Performance; *TGRS Oct. 2015* 5709–5721
- Xiong, X., see Sun, J., *TGRS Oct. 2015* 5722–5733
- Xiong, X., see Wang, Z., *TGRS Oct. 2015* 5486–5494
- Xiong, X., see Wu, A., *TGRS Sept. 2015* 4741–4751
- Xiong, X., see Lei, N., *TGRS Nov. 2015* 5983–5990
- Xu, C., see Shi, J., *TGRS June 2015* 3452–3459
- Xu, C., see Sui, H., *TGRS Nov. 2015* 6058–6072
- Xu, F., Li, X., Wang, P., Yang, J., Pichel, W.G., and Jin, Y., A Backscattering Model of Rainfall Over Rough Sea Surface for Synthetic Aperture Radar; *TGRS June 2015* 3042–3054
- Xu, G., Xing, M., Xia, X., Zhang, L., Liu, Y., and Bao, Z., Sparse Regularization of Interferometric Phase and Amplitude for InSAR Image Formation Based on Bayesian Representation; *TGRS April 2015* 2123–2136
- Xu, K., Zhong, Y., Song, R., Chen, X., and Ran, L., Multiplicative-Regularized FFT Twofold Subspace-Based Optimization Method for Inverse Scattering Problems; *TGRS Feb. 2015* 841–850
- Xu, R., see Guo, L., *TGRS July 2015* 3885–3896
- Xu, S., see Li, E., *TGRS Aug. 2015* 4483–4495
- Xu, S., see Huang, Q., *TGRS July 2015* 3833–3846
- Xu, S., see Jia, K., *TGRS Sept. 2015* 4787–4796
- Xu, X., see Zhong, Y., *TGRS March 2015* 1411–1426
- Xu, X., see Wang, J., *TGRS July 2015* 3917–3930
- Xu, X., see Gao, P., *TGRS Dec. 2015* 6813–6822
- Xu, Y., see Tong, X., *TGRS June 2015* 3522–3534
- Xu, Y., see Tong, X., *TGRS Aug. 2015* 4143–4156
- Xu, Y., see Xiong, C., *TGRS Sept. 2015* 4862–4875
- Xu, Z., see Wang, C., *TGRS June 2015* 3442–3451
- Xue, Z., Li, J., Cheng, L., and Du, P., Spectral–Spatial Classification of Hyperspectral Data via Morphological Component Analysis-Based Image Separation; *TGRS Jan. 2015* 70–84
- Xue, Z., Du, P., Li, J., and Su, H., Simultaneous Sparse Graph Embedding for Hyperspectral Image Classification; *TGRS Nov. 2015* 6114–6133
- Y**
- Yahia, H., see Sudre, J., *TGRS Nov. 2015* 6274–6285
- Yahia, M., and Aguilu, T., Characterization and Correction of Multilook Effects on Eigendecomposition Parameters in PolSAR Images; *TGRS Sept. 2015* 5237–5246
- Yamada, H., see Cui, Y., *TGRS Feb. 2015* 1048–1060
- Yamaguchi, Y., see Cui, Y., *TGRS Feb. 2015* 1048–1060
- Yamaguchi, Y., see Yamamoto, S., *TGRS Feb. 2015* 710–723
- Yamamoto, S., Matsunaga, T., Nakamura, R., Sekine, Y., Hirata, N., and Yamaguchi, Y., Rotational Pixel Swapping Method for Detection of Circular Features in Binary Images; *TGRS Feb. 2015* 710–723
- Yan, H., see Wan, X., *TGRS Oct. 2015* 5746–5759

- Yan, H.**, DeChant, C.M., and Moradkhani, H., Improving Soil Moisture Profile Prediction With the Particle Filter-Markov Chain Monte Carlo Method; *TGRS Nov. 2015 6134-6147*
- Yan, J.**, Zhang, K., Zhang, C., Chen, S., and Narasimhan, G., Automatic Construction of 3-D Building Model From Airborne LIDAR Data Through 2-D Snake Algorithm; *TGRS Jan. 2015 3-14*
- Yan, J.**, see Zhang, C., *TGRS Jan. 2015 207-218*
- Yan, L.**, see Chen, W., *TGRS May 2015 2925-2934*
- Yan, S.**, see Kou, X., *TGRS Nov. 2015 6048-6057*
- Yang, G.**, see Shi, S., *TGRS April 2015 2185-2194*
- Yang, G.**, Shen, H., Zhang, L., He, Z., and Li, X., A Moving Weighted Harmonic Analysis Method for Reconstructing High-Quality SPOT VEGETATION NDVI Time-Series Data; *TGRS Nov. 2015 6008-6021*
- Yang, H.**, see Li, T., *TGRS March 2015 1583-1591*
- Yang, H.**, Li, T., Li, N., He, Z., and Liu, Q.H., Efficient Near-Field Imaging for Single-Borehole Radar With Widely Separated Transceivers; *TGRS Oct. 2015 5327-5337*
- Yang, J.**, see Xu, F., *TGRS June 2015 3042-3054*
- Yang, J.**, Liu, C., and Wang, Y., Detection and Imaging of Ground Moving Targets With Real SAR Data; *TGRS Feb. 2015 920-932*
- Yang, J.**, see Zhao, Y., *TGRS Jan. 2015 296-308*
- Yang, J.**, see Lang, F., *TGRS Oct. 2015 5435-5446*
- Yang, K.**, Torres-Verdin, C., and Yilmaz, A.E., Detection and Quantification of Three-Dimensional Hydraulic Fractures With Horizontal Borehole Resistivity Measurements; *TGRS Aug. 2015 4605-4615*
- Yang, K.**, see Han, M., *TGRS May 2015 2775-2783*
- Yang, L.**, Liu, Q., Zhao, J., and Bao, L., Global Land Surface Backscatter at Ku-Band Using Merged Jason1, Envisat, and Jason2 Data Sets; *TGRS Feb. 2015 784-794*
- Yang, L.**, Bi, G., Xing, M., and Zhang, L., Airborne SAR Moving Target Signatures and Imagery Based on LVD; *TGRS Nov. 2015 5958-5971*
- Yang, M.**, see Huang, H., *TGRS Sept. 2015 5160-5169*
- Yang, S.**, Shi, Z., and Tang, W., Robust Hyperspectral Image Target Detection Using an Inequality Constraint; *TGRS June 2015 3389-3404*
- Yang, S.**, Wang, M., Li, P., Jin, L., Wu, B., and Jiao, L., Compressive Hyperspectral Imaging via Sparse Tensor and Nonlinear Compressed Sensing; *TGRS Nov. 2015 5943-5957*
- Yang, W.**, see Wang, P., *TGRS March 2015 1225-1235*
- Yang, W.**, Yin, X., and Xia, G., Learning High-level Features for Satellite Image Classification With Limited Labeled Samples; *TGRS Aug. 2015 4472-4482*
- Yang, X.**, see Ma, L., *TGRS May 2015 2832-2844*
- Yang, X.**, see Li, X., *TGRS Sept. 2015 5269-5279*
- Yang, Y.**, see Pepe, A., *TGRS Aug. 2015 4394-4417*
- Yang, Y.**, see Zhang, Q., *TGRS Jan. 2015 261-279*
- Yang, Z.**, see Kwon, Y., *TGRS Sept. 2015 5247-5268*
- Yanovsky, I.**, and Davis, A.B., Separation of a Cirrus Layer and Broken Cumulus Clouds in Multispectral Images; *TGRS May 2015 2275-2285*
- Yao, D.**, see Zeng, T., *TGRS Dec. 2015 6718-6734*
- Yao, W.**, see Chen, P., *TGRS Feb. 2015 1073-1081*
- Yao, Y.**, Kong, J., and Tang, J., A New Ionosphere Tomography Algorithm With Two-Grid Virtual Observations Constraints and Three-Dimensional Velocity Profile; *TGRS May 2015 2373-2383*
- Yao, Y.**, see Jia, K., *TGRS Sept. 2015 4787-4796*
- Yarovoy, A.G.**, see Sakamoto, T., *TGRS Jan. 2015 352-361*
- Ye, H.**, and Jin, Y., Simulation of Multiangular Radar Echoes for Speed Measurement During CE-3 Landing on the Lunar Sinus Iridum Surface; *TGRS Sept. 2015 4922-4932*
- Ye, M.**, Qian, Y., and Zhou, J., Multitask Sparse Nonnegative Matrix Factorization for Joint Spectral-Spatial Hyperspectral Imagery Denoising; *TGRS May 2015 2621-2639*
- Ye, N.**, Walker, J.P., and Rudiger, C., A Cumulative Distribution Function Method for Normalizing Variable-Angle Microwave Observations; *TGRS July 2015 3906-3916*
- Ye, N.**, see Zhang, X., *TGRS July 2015 3694-3706*
- Ye, Z.**, see Tong, X., *TGRS June 2015 3522-3534*
- Ye, Z.**, see Tong, X., *TGRS Aug. 2015 4143-4156*
- Yi, D.**, Harbeck, J.P., Manizade, S.S., Kurtz, N.T., Studinger, M., and Hofton, M., Arctic Sea Ice Freeboard Retrieval With Waveform Characteristics for NASA's Airborne Topographic Mapper (ATM) and Land, Vegetation, and Ice Sensor (LVIS); *TGRS March 2015 1403-1410*
- Yilmaz, A.E.**, see Yang, K., *TGRS Aug. 2015 4605-4615*
- Yin, H.**, and Li, S., Pansharpening With Multiscale Normalized Nonlocal Means Filter: A Two-Step Approach; *TGRS Oct. 2015 5734-5745*
- Yin, K.**, see Liu, B., *TGRS Feb. 2015 810-827*
- Yin, X.**, see Yang, W., *TGRS Aug. 2015 4472-4482*
- Yonezawa, C.**, see Watanabe, M., *TGRS Nov. 2015 5799-5813*
- Yoshida, T.**, see Motohka, T., *TGRS April 2015 1683-1691*
- Youn, J.**, see Lee, C., *TGRS March 2015 1186-1194*
- Young, S.J.**, see Hall, J.L., *TGRS Oct. 2015 5447-5457*
- Younis, M.**, see Kim, J., *TGRS May 2015 2453-2466*
- Youssefi, D.**, see Michel, J., *TGRS Feb. 2015 952-964*
- Yu, B.**, see Moon, T., *TGRS Aug. 2015 4328-4339*
- Yu, F.**, see Zhuge, X., *TGRS Oct. 2015 5661-5676*
- Yu, J.**, see Yu, Y., *TGRS March 2015 1374-1386*
- Yu, K.**, Tsunami-Wave Parameter Estimation Using GNSS-Based Sea Surface Height Measurement; *TGRS May 2015 2603-2611*
- Yu, K.**, Ban, W., Zhang, X., and Yu, X., Snow Depth Estimation Based on Multipath Phase Combination of GPS Triple-Frequency Signals; *TGRS Sept. 2015 5100-5109*
- Yu, T.**, see Gao, H., *TGRS July 2015 4127-4137*
- Yu, W.**, see Liu, B., *TGRS Sept. 2015 4797-4809*
- Yu, X.**, see Yu, K., *TGRS Sept. 2015 5100-5109*
- Yu, Y.**, see Guan, H., *TGRS March 2015 1527-1537*
- Yu, Y.**, Li, J., Guan, H., Wang, C., and Yu, J., Semiautomated Extraction of Street Light Poles From Mobile LiDAR Point-Clouds; *TGRS March 2015 1374-1386*
- Yu, Y.**, see Basu, S., *TGRS Oct. 2015 5690-5708*
- Yu, Y.**, see Feng, X., *TGRS Sept. 2015 4852-4861*
- Yu, Z.**, Li, Z., and Wang, S., An Imaging Compensation Algorithm for Correcting the Impact of Tropospheric Delay on Spaceborne High-Resolution SAR; *TGRS Sept. 2015 4825-4836*
- Yuan, H.**, see Tang, Y.Y., *TGRS May 2015 2467-2480*
- Yuan, Y.**, Fu, M., and Lu, X., Substance Dependence Constrained Sparse NMF for Hyperspectral Unmixing; *TGRS June 2015 2975-2986*
- Yuan, Y.**, Wang, Q., and Zhu, G., Fast Hyperspectral Anomaly Detection via High-Order 2-D Crossing Filter; *TGRS Feb. 2015 620-630*
- Yuan, Y.**, Zhu, G., and Wang, Q., Hyperspectral Band Selection by Multitask Sparsity Pursuit; *TGRS Feb. 2015 631-644*
- Yuan, Y.**, Zheng, X., and Lu, X., Spectral-Spatial Kernel Regularization for Hyperspectral Image Denoising; *TGRS July 2015 3815-3832*
- Yue, P.**, see Sun, Z., *TGRS July 2015 3737-3748*
- Yuksel, S.E.**, Bolton, J., and Gader, P., Multiple-Instance Hidden Markov Models With Applications to Landmine Detection; *TGRS Dec. 2015 6766-6775*

Z

- Zabalza, J.**, Ren, J., Zheng, J., Han, J., Zhao, H., Li, S., and Marshall, S., Novel Two-Dimensional Singular Spectrum Analysis for Effective Feature Extraction and Data Classification in Hyperspectral Imaging; *TGRS Aug. 2015 4418-4433*
- Zaharie, D.**, see Li, J., *TGRS Sept. 2015 5067-5082*
- Zanetti, M.**, see Liu, S., *TGRS Aug. 2015 4363-4378*
- Zanotta, D.C.**, Bruzzone, L., Bovolo, F., and Shimabukuro, Y.E., An Adaptive Semisupervised Approach to the Detection of User-Defined Recurrent Changes in Image Time Series; *TGRS July 2015 3707-3719*
- Zapolski, A.**, see Zilman, G., *TGRS Feb. 2015 609-619*
- Zare, A.**, see Jiao, C., *TGRS Aug. 2015 4670-4686*
- Zare, A.**, see Chen, C., *TGRS Oct. 2015 5547-5559*
- Zaugg, E.C.**, and Long, D.G., Generalized Frequency Scaling and Backprojection for LFM-CW SAR Processing; *TGRS July 2015 3600-3614*
- Zavorotny, V.U.**, see Chew, C.C., *TGRS May 2015 2755-2764*
- Zeng, C.**, see Zhang, X., *TGRS Feb. 2015 1105-1117*
- Zeng, T.**, Ao, D., Hu, C., Zhang, T., Liu, F., Tian, W., and Lin, K., Multiangle BSAR Imaging Based on BeiDou-2 Navigation Satellite System: Experiments and Preliminary Results; *TGRS Oct. 2015 5760-5773*
- Zeng, T.**, Zhu, M., Hu, C., Tian, W., and Long, T., Experimental Results and Algorithm Analysis of DEM Generation Using Bistatic SAR Interferometry With Stationary Receiver; *TGRS Nov. 2015 5835-5852*
- Zeng, T.**, Li, Y., Ding, Z., Long, T., Yao, D., and Sun, Y., Subaperture Approach Based on Azimuth-Dependent Range Cell Migration Correction and Azimuth Focusing Parameter Equalization for Maneuvering High-Squint-Mode SAR; *TGRS Dec. 2015 6718-6734*
- Zeng, Z.**, Li, J., Huang, L., Feng, X., and Liu, F., Improving Target Detection Accuracy Based on Multipolarization MIMO GPR; *TGRS Jan. 2015 15-24*
- Zhai, R.**, see Guan, H., *TGRS March 2015 1527-1537*
- Zhan, Y.**, see Makhoul, E., *TGRS May 2015 2496-2509*

- Zhang, B., *see* Zhao, Y., *TGRS May 2015 2765-2774*
- Zhang, C., *see* Tang, W., *TGRS Feb. 2015 770-783*
- Zhang, C., *see* Yan, J., *TGRS Jan. 2015 3-14*
- Zhang, C., Liu, H., Wu, J., Zhang, S., Yan, J., Niu, L., Sun, W., and Li, H., Imaging Analysis and First Results of the Geostationary Interferometric Microwave Sounder Demonstrator; *TGRS Jan. 2015 207-218*
- Zhang, D., *see* Han, J., *TGRS June 2015 3325-3337*
- Zhang, F., Du, B., and Zhang, L., Saliency-Guided Unsupervised Feature Learning for Scene Classification; *TGRS April 2015 2175-2184*
- Zhang, F., *see* Fang, W., *TGRS Feb. 2015 942-951*
- Zhang, G., *see* Lei, L., *TGRS Aug. 2015 413-4327*
- Zhang, G., Wang, T., Li, D., Tang, X., Jiang, Y., Huang, W., and Pan, H., Block Adjustment for Satellite Imagery Based on the Strip Constraint; *TGRS Feb. 2015 933-941*
- Zhang, G., *see* Karimkashi, S., *TGRS May 2015 2810-2818*
- Zhang, G., *see* Jiang, Y., *TGRS July 2015 3985-3995*
- Zhang, G., *see* Basu, S., *TGRS Oct. 2015 5690-5708*
- Zhang, G., Jia, X., and Hu, J., Superpixel-Based Graphical Model for Remote Sensing Image Mapping; *TGRS Nov. 2015 5861-5871*
- Zhang, H., *see* Li, J., *TGRS Oct. 2015 5338-5351*
- Zhang, J., Clayton, M.K., and Townsend, P.A., Missing Data and Regression Models for Spatial Images; *TGRS March 2015 1574-1582*
- Zhang, J., *see* Chen, S., *TGRS Aug. 2015 4434-4443*
- Zhang, J.A., *see* Li, X., *TGRS Sept. 2015 5269-5279*
- Zhang, K., *see* Song, H., *TGRS March 2015 1195-1204*
- Zhang, K., *see* Yan, J., *TGRS Jan. 2015 3-14*
- Zhang, L., *see* Zhang, F., *TGRS April 2015 2175-2184*
- Zhang, L., *see* Xu, G., *TGRS April 2015 2123-2136*
- Zhang, L., *see* Li, J., *TGRS March 2015 1592-1606*
- Zhang, L., *see* Zhang, Y., *TGRS March 2015 1346-1354*
- Zhang, L., *see* Zhong, Y., *TGRS March 2015 1411-1426*
- Zhang, L., *see* Ma, A., *TGRS Aug. 2015 4202-4217*
- Zhang, L., *see* Zhao, J., *TGRS May 2015 2440-2452*
- Zhang, L., *see* Wang, Z., *TGRS May 2015 2409-2425*
- Zhang, L., *see* Wang, N., *TGRS Jan. 2015 416-428*
- Zhang, L., *see* Wang, N., *TGRS Jan. 2015 416-428*
- Zhang, L., *see* Huang, X., *TGRS July 2015 3639-3657*
- Zhang, L., *see* Li, J., *TGRS Oct. 2015 5338-5351*
- Zhang, L., *see* Shi, Q., *TGRS Oct. 2015 5677-5689*
- Zhang, L., *see* Wu, W., *TGRS Oct. 2015 5583-5599*
- Zhang, L., *see* Chen, N., *TGRS Oct. 2015 5504-5518*
- Zhang, L., *see* Zheng, J., *TGRS Sept. 2015 4727-4740*
- Zhang, L., *see* Yang, L., *TGRS Nov. 2015 5958-5971*
- Zhang, L., *see* Zhong, Y., *TGRS Nov. 2015 6207-6222*
- Zhang, L., *see* Yang, G., *TGRS Nov. 2015 6008-6021*
- Zhang, L., *see* Wu, B., *TGRS Dec. 2015 6791-6803*
- Zhang, L., *see* Tang, S., *TGRS Dec. 2015 6529-6546*
- Zhang, M., *see* Wang, C., *TGRS June 2015 3442-3451*
- Zhang, M., *see* Zhao, Y., *TGRS Aug. 2015 4250-4258*
- Zhang, P., *see* Jia, L., *TGRS July 2015 3960-3973*
- Zhang, P., Li, M., Wu, Y., and Li, H., Hierarchical Conditional Random Fields Model for Semisupervised SAR Image Segmentation; *TGRS Sept. 2015 4933-4951*
- Zhang, Q., *see* Chen, Y., *TGRS Aug. 2015 4616-4626*
- Zhang, Q., and Skjetne, R., Image Processing for Identification of Sea-Ice Floes and the Floe Size Distributions; *TGRS May 2015 2913-2924*
- Zhang, Q., Antoniou, M., Chang, W., and Cherniakov, M., Spatial Decorrelation in GNSS-Based SAR Coherent Change Detection; *TGRS Jan. 2015 219-228*
- Zhang, Q., Tian, Y., Yang, Y., and Pan, C., Automatic Spatial-Spectral Feature Selection for Hyperspectral Image via Discriminative Sparse Multimodal Learning; *TGRS Jan. 2015 261-279*
- Zhang, S., Xing, M., Xia, X., Guo, R., Liu, Y., and Bao, Z., Robust Clutter Suppression and Moving Target Imaging Approach for Multichannel in Azimuth High-Resolution and Wide-Swath Synthetic Aperture Radar; *TGRS Feb. 2015 687-709*
- Zhang, S., *see* Zhang, C., *TGRS Jan. 2015 207-218*
- Zhang, T., and Xia, X., OFDM Synthetic Aperture Radar Imaging With Sufficient Cyclic Prefix; *TGRS Jan. 2015 394-404*
- Zhang, T., *see* Zeng, T., *TGRS Oct. 2015 5760-5773*
- Zhang, W., and Liu, Q.H., Three-Dimensional Scattering and Inverse Scattering from Objects With Simultaneous Permittivity and Permeability Contrasts; *TGRS Jan. 2015 429-439*
- Zhang, X., *see* Chen, S., *TGRS Aug. 2015 4434-4443*
- Zhang, X., *see* Li, E., *TGRS Aug. 2015 4483-4495*
- Zhang, X., *see* Chen, S., *TGRS Aug. 2015 4444-4456*
- Zhang, X., Liao, G., Zhu, S., Zeng, C., and Shu, Y., Geometry-Information-Aided Efficient Radial Velocity Estimation for Moving Target Imaging and Location Based on Radon Transform; *TGRS Feb. 2015 1105-1117*
- Zhang, X., *see* Feng, J., *TGRS May 2015 2956-2969*
- Zhang, X., Xiao, P., Feng, X., Feng, L., and Ye, N., Toward Evaluating Multiscale Segmentations of High Spatial Resolution Remote Sensing Images; *TGRS July 2015 3694-3706*
- Zhang, X., *see* Chen, N., *TGRS Oct. 2015 5504-5518*
- Zhang, X., *see* Yu, K., *TGRS Sept. 2015 5100-5109*
- Zhang, X., *see* Gao, P., *TGRS Dec. 2015 6813-6822*
- Zhang, Y., Du, B., and Zhang, L., A Sparse Representation-Based Binary Hypothesis Model for Target Detection in Hyperspectral Images; *TGRS March 2015 1346-1354*
- Zhang, Y., Ding, C., Qiu, X., and Li, F., The Characteristics of the Multipath Scattering and the Application for Geometry Extraction in High-Resolution SAR Images; *TGRS Aug. 2015 4687-4699*
- Zhang, Y., Xiong, X., Zheng, M., and Huang, X., LiDAR Strip Adjustment Using Multifeatures Matched With Aerial Images; *TGRS Feb. 2015 976-987*
- Zhang, Y., *see* Zheng, M., *TGRS July 2015 3847-3854*
- Zhang, Y., Cong, M., Hao, S., and Zhou, Y., On-Orbit Calibration Data-Processing Technologies for the Space-Based Infrared Camera; *TGRS Dec. 2015 6372-6384*
- Zhang, Y., *see* Tang, S., *TGRS Dec. 2015 6529-6546*
- Zhang, Z., *see* Chen, S., *TGRS Aug. 2015 4434-4443*
- Zhang, Z., *see* Tao, M., *TGRS May 2015 2481-2495*
- Zhang, Z., *see* Liu, B., *TGRS Sept. 2015 4797-4809*
- Zhao, B., *see* Tang, J., *TGRS March 2015 1174-1185*
- Zhao, B., *see* Lang, S., *TGRS Aug. 2015 4496-4509*
- Zhao, F., *see* Wan, J., *TGRS Sept. 2015 5229-5236*
- Zhao, H., *see* Zabalza, J., *TGRS Aug. 2015 4418-4433*
- Zhao, H., *see* Chen, W., *TGRS May 2015 2925-2934*
- Zhao, J., *see* Yang, L., *TGRS Feb. 2015 784-794*
- Zhao, J., Zhong, Y., and Zhang, L., Detail-Preserving Smoothing Classifier Based on Conditional Random Fields for High Spatial Resolution Remote Sensing Imagery; *TGRS May 2015 2440-2452*
- Zhao, J., *see* Ma, J., *TGRS Dec. 2015 6469-6481*
- Zhao, K., *see* Li, X., *TGRS Sept. 2015 4985-4996*
- Zhao, L., *see* Han, M., *TGRS May 2015 2775-2783*
- Zhao, N., Zhou, Y., and Samson, E.L., Correcting Incompatible DN Values and Geometric Errors in Nighttime Lights Time-Series Images; *TGRS April 2015 2039-2049*
- Zhao, S., *see* Wu, Y., *TGRS Jan. 2015 440-452*
- Zhao, S., *see* Kou, X., *TGRS Nov. 2015 6048-6057*
- Zhao, T., *see* Xiong, C., *TGRS Sept. 2015 4862-4875*
- Zhao, X., *see* Jia, K., *TGRS Sept. 2015 4787-4796*
- Zhao, Y., Zhang, M., and Geng, X., A Bistatic SAR Image Intensity Model for the Composite Ship-Ocean Scene; *TGRS Aug. 2015 4250-4258*
- Zhao, Y., *see* Zhao, Y., *TGRS Aug. 2015 4250-4258*
- Zhao, Y., Liu, J.G., Zhang, B., Hong, W., and Wu, Y., Adaptive Total Variation Regularization Based SAR Image Despeckling and Despeckling Evaluation Index; *TGRS May 2015 2765-2774*
- Zhao, Y., and Yang, J., Hyperspectral Image Denoising via Sparse Representation and Low-Rank Constraint; *TGRS Jan. 2015 296-308*
- Zhao, Z., *see* Shi, S., *TGRS April 2015 2185-2194*
- Zheng, J., *see* Zabalza, J., *TGRS Aug. 2015 4418-4433*
- Zheng, J., Su, T., Zhu, W., Zhang, L., Liu, Z., and Liu, Q.H., ISAR Imaging of Nonuniformly Rotating Target Based on a Fast Parameter Estimation Algorithm of Cubic Phase Signal; *TGRS Sept. 2015 4727-4740*
- Zheng, M., *see* Zhang, Y., *TGRS Feb. 2015 976-987*
- Zheng, M., Zhang, Y., Zhu, J., and Xiong, X., Self-Calibration Adjustment of CBERS-02B Long-Strip Imagery; *TGRS July 2015 3847-3854*
- Zheng, W., *see* Li, X., *TGRS Sept. 2015 5269-5279*
- Zheng, X., *see* Yuan, Y., *TGRS July 2015 3815-3832*
- Zheng, Y.F., *see* Cao, S., *TGRS Jan. 2015 229-243*
- Zhenzhan, W., *see* Jieying, H., *TGRS Jan. 2015 481-493*
- Zhong, P., *see* Sun, S., *TGRS April 2015 1746-1760*
- Zhong, Y., Wu, Y., Xu, X., and Zhang, L., An Adaptive Subpixel Mapping Method Based on MAP Model and Class Determination Strategy for Hyperspectral Remote Sensing Imagery; *TGRS March 2015 1411-1426*
- Zhong, Y., *see* Ma, A., *TGRS Aug. 2015 4202-4217*
- Zhong, Y., *see* Xu, K., *TGRS Feb. 2015 841-850*

- Zhong, Y.**, see Wan, L., *TGRS May 2015 2384-2396*
- Zhong, Y.**, see Zhao, J., *TGRS May 2015 2440-2452*
- Zhong, Y.**, Zhu, Q., and Zhang, L., Scene Classification Based on the Multifeature Fusion Probabilistic Topic Model for High Spatial Resolution Remote Sensing Imagery; *TGRS Nov. 2015 6207-6222*
- Zhou, F.**, see Tao, M., *TGRS May 2015 2481-2495*
- Zhou, H.**, see Huang, Q., *TGRS July 2015 3833-3846*
- Zhou, H.**, see Ma, J., *TGRS Dec. 2015 6469-6481*
- Zhou, J.**, Shi, Z., and Fu, Q., Three-Dimensional Scattering Center Extraction Based on Wide Aperture Data at a Single Elevation; *TGRS March 2015 1638-1655*
- Zhou, J.**, see Ye, M., *TGRS May 2015 2621-2639*
- Zhou, X.**, Peng, R., and Wang, C., A Two-Component K -Lognormal Mixture Model and Its Parameter Estimation Method; *TGRS May 2015 2640-2651*
- Zhou, Y.**, see Zhao, N., *TGRS April 2015 2039-2049*
- Zhou, Y.**, Peng, J., and Chen, C.L.P., Dimension Reduction Using Spatial and Spectral Regularized Local Discriminant Embedding for Hyperspectral Image Classification; *TGRS Feb. 2015 1082-1095*
- Zhou, Y.**, see Peng, J., *TGRS Sept. 2015 4810-4824*
- Zhou, Y.**, see Zhang, Y., *TGRS Dec. 2015 6372-6384*
- Zhou, Z.**, see Li, T., *TGRS March 2015 1583-1591*
- Zhu, G.**, see Yuan, Y., *TGRS Feb. 2015 620-630*
- Zhu, G.**, see Yuan, Y., *TGRS Feb. 2015 631-644*
- Zhu, G.**, see Sun, S., *TGRS Jan. 2015 557-566*
- Zhu, J.**, see Zheng, M., *TGRS July 2015 3847-3854*
- Zhu, M.**, see Zeng, T., *TGRS Nov. 2015 5835-5852*
- Zhu, Q.**, see Zhong, Y., *TGRS Nov. 2015 6207-6222*
- Zhu, S.**, see Zhang, X., *TGRS Feb. 2015 1105-1117*
- Zhu, W.**, see Zheng, J., *TGRS Sept. 2015 4727-4740*
- Zhu, X.**, see Chen, P., *TGRS Feb. 2015 1073-1081*
- Zhu, X.X.**, see Gisinger, C., *TGRS April 2015 1782-1802*
- Zhu, X.X.**, see Shahzad, M., *TGRS Feb. 2015 752-769*
- Zhu, Y.**, Kang, E., Bo, Y., Tang, Q., Cheng, J., and He, Y., A Robust Fixed Rank Kriging Method for Improving the Spatial Completeness and Accuracy of Satellite SST Products; *TGRS Sept. 2015 5021-5035*
- Zhuge, X.**, Guan, J., Yu, F., and Wang, Y., A New Satellite-Based Indicator for Estimation of the Western North Pacific Tropical Cyclone Current Intensity; *TGRS Oct. 2015 5661-5676*
- Zilman, G.**, Zapolski, A., and Marom, M., On Detectability of a Ship's Kelvin Wake in Simulated SAR Images of Rough Sea Surface; *TGRS Feb. 2015 609-619*
- Zirizzotti, A.**, see Urbini, S., *TGRS March 2015 1558-1564*
- Zonno, M.**, see De Zan, F., *TGRS Dec. 2015 6608-6616*
- Zotta, L.**, Matteoli, S., Diani, M., and Corsini, G., AFRODiTE: A FluoRescence Lidar Simulator for Underwater Object Detection Applications; *TGRS June 2015 3022-3041*
- Zoubir, A.M.**, see Fei, T., *TGRS Jan. 2015 505-518*
- Zrnic, D.S.**, see Melnikov, V.M., *TGRS Oct. 2015 5634-5643*
- Zuikova, E.M.**, see Titchenko, Y.A., *TGRS Aug. 2015 4340-4347*
- Evaluation of a MISR-Based High-Resolution Aerosol Retrieval Method Using AERONET DRAGON Campaign Data. *Moon, T.*, +, *TGRS Aug. 2015 4328-4339*
- Measurement and Correction of Atmospheric Effects at Different Altitudes for Remote Sensing of Sun-Induced Fluorescence in Oxygen Absorption Bands. *Daumard, F.*, +, *TGRS Sept. 2015 5180-5196*
- Retrieval of Atmospheric Aerosol and Surface Properties Over Land Using Satellite Observations. *Shi, G.*, +, *TGRS Feb. 2015 1039-1047*
- Retrieval of Tephra Size Spectra and Mass Flow Rate From C-Band Radar During the 2010 Eyjafjallajökull Eruption, Iceland. *Mereu, L.*, +, *TGRS Oct. 2015 5644-5660*
- Study on Influences of Atmospheric Factors on Vertical CO₂ Profile Retrieving From Ground-Based DIAL at 1.6 μm . *Han, G.*, +, *TGRS June 2015 3221-3234*
- Aerospace instrumentation**
- On-Orbit Characterization of S-NPP VIIRS Transmission Functions. *McIntire, J.*, +, *TGRS May 2015 2354-2365*
- Spatial-Response Matched Filter and Its Application in Radiometric Accuracy Improvement of FY-2 Satellite Thermal Infrared Band. *Guo, Q.*, +, *TGRS May 2015 2397-2408*
- Affine transforms**
- Block Adjustment for Satellite Imagery Based on the Strip Constraint. *Zhang, G.*, +, *TGRS Feb. 2015 933-941*
- Remote Sensing Image Matching Based on Adaptive Binning SIFT Descriptor. *Sedaghat, A.*, +, *TGRS Oct. 2015 5283-5293*
- Air pollution**
- Evaluation of a MISR-Based High-Resolution Aerosol Retrieval Method Using AERONET DRAGON Campaign Data. *Moon, T.*, +, *TGRS Aug. 2015 4328-4339*
- Air quality**
- Evaluation of a MISR-Based High-Resolution Aerosol Retrieval Method Using AERONET DRAGON Campaign Data. *Moon, T.*, +, *TGRS Aug. 2015 4328-4339*
- Airborne radar**
- A Semiautomated Multilayer Picking Algorithm for Ice-Sheet Radar Echograms Applied to Ground-Based Near-Surface Data. *Onana, V.d.P.*, +, *TGRS Jan. 2015 51-69*
- Automatic Construction of 3-D Building Model From Airborne LIDAR Data Through 2-D Snake Algorithm. *Yan, J.*, +, *TGRS Jan. 2015 3-14*
- Calibration of the Mercury Laser Altimeter on the MESSENGER Spacecraft. *Sun, X.*, +, *TGRS May 2015 2860-2874*
- Direction-of-Arrival Estimation for Radar Ice Sounding Surface Clutter Suppression. *Nielsen, U.*, +, *TGRS Sept. 2015 5170-5179*
- Forest Height Estimation by Means of Pol-InSAR Data Inversion: The Role of the Vertical Wavenumber. *Kugler, F.*, +, *TGRS Oct. 2015 5294-5311*
- LiDAR Strip Adjustment Using Multifeatures Matched With Aerial Images. *Zhang, Y.*, +, *TGRS Feb. 2015 976-987*
- Phase Offset Calculation for Airborne InSAR DEM Generation Without Corner Reflectors. *Perna, S.*, +, *TGRS May 2015 2713-2726*
- Precise Focusing of Airborne SAR Data With Wide Apertures Large Trajectory Deviations: A Chirp Modulated Back-Projection Approach. *Meng, D.*, +, *TGRS May 2015 2510-2519*
- Tensorial Independent Component Analysis-Based Feature Extraction for Polarimetric SAR Data Classification. *Tao, M.*, +, *TGRS May 2015 2481-2495*
- Urban Land Use Information Extraction Using the Ultrahigh-Resolution Chinese Airborne SAR Imagery. *Wu, W.*, +, *TGRS Oct. 2015 5583-5599*
- Albedo**
- A Framework for Consistent Estimation of Leaf Area Index, Fraction of Absorbed Photosynthetically Active Radiation, and Surface Albedo from MODIS Time-Series Data. *Xiao, Z.*, +, *TGRS June 2015 3178-3197*
- High-Resolution Maps of Bathymetry and Benthic Habitats in Shallow-Water Environments Using Multispectral Remote Sensing Imagery. *Eugenio, F.*, +, *TGRS July 2015 3539-3549*
- Algorithm design and analysis**
- Correction to "Algorithm for Sea Surface Wind Retrieval From TerraSAR-X and TanDEM-X Data" [May 14 2928-2939]. *Li, X.*, +, *TGRS Jan. 2015 578*
- Altimeters**
- SAR Altimeter Backscattered Waveform Model. *Ray, C.*, +, *TGRS Feb. 2015 911-919*
- Antenna arrays**
- Improving Target Detection Accuracy Based on Multipolarization MIMO GPR. *Zeng, Z.*, +, *TGRS Jan. 2015 15-24*

SUBJECT INDEX

A

Absorption

Radiometric Approach for Estimating Relative Changes in Intraglacier Average Temperature. *Jezek, K.C.*, +, *TGRS Jan. 2015 134-143*

Adaptive estimation

An Adaptive Semisupervised Approach to the Detection of User-Defined Recurrent Changes in Image Time Series. *Zanotta, D.C.*, +, *TGRS July 2015 3707-3719*

Adaptive filters

Adaptive-Window Polarimetric SAR Image Speckle Filtering Based on a Homogeneity Measurement. *Lang, F.*, +, *TGRS Oct. 2015 5435-5446*

Aerosols

Characterizing the Aerosol and Surface Reflectance Over Australia Using AATSR. *Qin, Y.*, +, *TGRS Nov. 2015 6163-6182*

Development and Operational Analysis of an All-Fiber Coherent Doppler Lidar System for Wind Sensing and Aerosol Profiling. *Abdelazim, S.*, +, *TGRS Dec. 2015 6495-6506*

Antenna feeds

Coaxial-Fed Circular Dipole Array Antenna With Ferrite Loading for Thin Directional Borehole Radar Sonde. *Ebihara, S.*, +, *TGRS April 2015 1842-1854*

Antenna phased arrays

Comparison of Theoretical Biases in Estimating Polarimetric Properties of Precipitation With Weather Radar Using Parabolic Reflector, or Planar and Cylindrical Arrays. *Lei, L.*, +, *TGRS Aug. 2015 4313-4327*

KAIRA: The Kilpisjärvi Atmospheric Imaging Receiver Array—System Overview and First Results. *McKay-Bukowski, D.*, +, *TGRS March 2015 1440-1451*

Reduced Image Aliasing With Microwave Radiometers and Weather Radar Through Windowed Spatial Averaging. *McLinden, M.L.*, +, *TGRS Dec. 2015 6639-6649*

Antenna radiation patterns

Improving Target Detection Accuracy Based on Multipolarization MIMO GPR. *Zeng, Z.*, +, *TGRS Jan. 2015 15-24*

Including Antenna Mispointing in a Semi-Analytical Model for Delay/Doppler Altimetry. *Halimi, A.*, +, *TGRS Feb. 2015 598-608*

Optimizing Radiation Patterns of a Cylindrical Polarimetric Phased-Array Radar for Multimissions. *Karimkashi, S.*, +, *TGRS May 2015 2810-2818*

Reduced Image Aliasing With Microwave Radiometers and Weather Radar Through Windowed Spatial Averaging. *McLinden, M.L.*, +, *TGRS Dec. 2015 6639-6649*

Antennas

Processing of Monostatic SAR Data With General Configurations. *Tang, S.*, +, *TGRS Dec. 2015 6529-6546*

Simulation of the SMAP Data Stream From SMAPEX Field Campaigns in Australia. *Wu, X.*, +, *TGRS April 2015 1921-1934*

Approximation theory

A Novel Approximate Solution for Electromagnetic Scattering by Dielectric Disks. *Wang, L.*, +, *TGRS May 2015 2948-2955*

A Simplified Formulation for Rough Surface Cross-Polarized Backscattering Under the Second-Order Small-Slope Approximation. *Guerin, C.*, +, *TGRS Nov. 2015 6308-6314*

Doppler-Related Distortions in TOPS SAR Images. *Rodriguez-Cassola, M.*, +, *TGRS Jan. 2015 25-35*

Future Ocean Scatterometry: On the Use of Cross-Polar Scattering to Observe Very High Winds. *Fois, F.*, +, *TGRS Sept. 2015 5009-5020*

Generalized Frequency Scaling and Backprojection for LFM-CW SAR Processing. *Zaugg, E.C.*, +, *TGRS July 2015 3600-3614*

Hyperspectral Image Denoising via Sparse Representation and Low-Rank Constraint. *Zhao, Y.*, +, *TGRS Jan. 2015 296-308*

Including Antenna Mispointing in a Semi-Analytical Model for Delay/Doppler Altimetry. *Halimi, A.*, +, *TGRS Feb. 2015 598-608*

Marine Electrical Sensing for Detecting Small Inhomogeneities. *Polydorides, N.*, +, *TGRS Feb. 2015 988-1000*

Modeling and Measurement of C-Band Radar Backscatter From Snow-Covered First-Year Sea Ice. *Komarov, A.S.*, +, *TGRS July 2015 4063-4078*

Mutual-Information-Based Semi-Supervised Hyperspectral Band Selection With High Discrimination, High Information, and Low Redundancy. *Feng, J.*, +, *TGRS May 2015 2956-2969*

PollNSAR Coherence Region Modeling and Inversion: The Best Normal Matrix Approximation Solution. *Cui, Y.*, +, *TGRS Feb. 2015 1048-1060*

Theory of Two-Dimensional Signature Morphology for Arbitrarily Moving Surface Targets in Squinted Spotlight Synthetic Aperture Radar. *Garren, D.A.*, *TGRS Sept. 2015 4997-5008*

Array signal processing

Robust Clutter Suppression and Moving Target Imaging Approach for Multichannel in Azimuth High-Resolution and Wide-Swath Synthetic Aperture Radar. *Zhang, S.*, +, *TGRS Feb. 2015 687-709*

Spaceborne MIMO Synthetic Aperture Radar for Multimodal Operation. *Kim, J.*, +, *TGRS May 2015 2453-2466*

Artificial satellites

Advanced Microwave Atmospheric Sounder (AMAS) Channel Specifications and T/V Calibration Results on FY-3C Satellite. *Jieying, H.*, +, *TGRS Jan. 2015 481-493*

Block Adjustment for Satellite Imagery Based on the Strip Constraint. *Zhang, G.*, +, *TGRS Feb. 2015 933-941*

Conditional Random Fields for Multitemporal and Multiscale Classification of Optical Satellite Imagery. *Hoberg, T.*, +, *TGRS Feb. 2015 659-673*

Cross-Sensor Continuity of Satellite-Derived Water Clarity in the Gulf of Mexico: Insights Into Temporal Aliasing and Implications for Long-Term Water Clarity Assessment. *Barnes, B.B.*, +, *TGRS April 2015 1761-1772*

Elicit Chemical Reaction Optimization for Contour-Based Target Recognition in Aerial Images. *Duan, H.*, +, *TGRS May 2015 2845-2859*

Hierarchical Unsupervised Change Detection in Multitemporal Hyperspectral Images. *Liu, S.*, +, *TGRS Jan. 2015 244-260*

Imaging Analysis and First Results of the Geostationary Interferometric Microwave Sounder Demonstrator. *Zhang, C.*, +, *TGRS Jan. 2015 207-218*

Intercomparison of Precipitation Estimates From WSR-88D Radar and TRMM Measurement Over Continental United States. *Chen, S.*, +, *TGRS Aug. 2015 4444-4456*

Modeling the Detector Radiometric Gains of the Suomi NPP VIIRS Reflective Solar Bands. *Lei, N.*, +, *TGRS March 2015 1565-1573*

Multiangle Backscattering Observations of Continental Surfaces in Ku-Band (13 GHz) From Satellites: Understanding the Signals, Particularly in Arid Regions. *Prigent, C.*, +, *TGRS March 2015 1364-1373*

Sensitivity of Intercalibration Uncertainty of the CLARREO Reflected Solar Spectrometer Features. *Wu, A.*, +, *TGRS Sept. 2015 4741-4751*

Spatial-Response Matched Filter and Its Application in Radiometric Accuracy Improvement of FY-2 Satellite Thermal Infrared Band. *Guo, Q.*, +, *TGRS May 2015 2397-2408*

Statistical Tests for a Ship Detector Based on the Polarimetric Notch Filter. *Marino, A.*, +, *TGRS Aug. 2015 4578-4595*

Ash

Retrieval of Tephra Size Spectra and Mass Flow Rate From C-Band Radar During the 2010 Eyjafjallajökull Eruption, Iceland. *Mereu, L.*, +, *TGRS Oct. 2015 5644-5660*

Asphalt

Calibration of FDTD Simulation of GPR Signal for Asphalt Pavement Compaction Monitoring. *Shangguan, P.*, +, *TGRS March 2015 1538-1548*

Astronomical instruments

On-Orbit Characterization of S-NPP VIIRS Transmission Functions. *McIntire, J.*, +, *TGRS May 2015 2354-2365*

Optimization of the Antennas of the EISS Radar Designed to Perform Deep Martian Subsurface Sounding. *Biancheri-Astier, M.*, +, *TGRS Aug. 2015 4627-4637*

Atmospheric boundary layer

A Semi-Empirical Model for Computing Land Surface Emissivity in the Microwave Region. *Ringerud, S.*, +, *TGRS April 2015 1935-1946*

Atmospheric Boundary Layer Height Estimation Using a Kalman Filter and a Frequency-Modulated Continuous-Wave Radar. *Lange, D.*, +, *TGRS June 2015 3338-3349*

Atmospheric composition

Characteristics of the Trends in the Global Tropopause Estimated From COSMIC Radio Occultation Data. *Gao, P.*, +, *TGRS Dec. 2015 6813-6822*

Study on Influences of Atmospheric Factors on Vertical CO₂ Profile Retrieving From Ground-Based DIAL at 1.6 μm . *Han, G.*, +, *TGRS June 2015 3221-3234*

Atmospheric electromagnetic wave propagation

An Imaging Compensation Algorithm for Correcting the Impact of Tropospheric Delay on Spaceborne High-Resolution SAR. *Yu, Z.*, +, *TGRS Sept. 2015 4825-4836*

Modeling Radar Attenuation by a Low Melting Layer With Optimized Model Parameters at C-Band. *von Lerber, A.*, +, *TGRS Feb. 2015 724-737*

Atmospheric humidity

A Model for the Complex Dielectric Constant of Supercooled Liquid Water at Microwave Frequencies. *Rosenkranz, P.W.*, *TGRS March 2015 1387-1393*

Accurate Estimation of Atmospheric Water Vapor Using GNSS Observations and Surface Meteorological Data. *Alshawaf, F.*, +, *TGRS July 2015 3764-3771*

Calibration and Evaluation of Precipitable Water Vapor From MODIS Infrared Observations at Night. *Chang, L.*, +, *TGRS May 2015 2612-2620*

Impact of Diurnal Variation in Vegetation Water Content on Radar Backscatter From Maize During Water Stress. *van Emmerik, T.*, +, *TGRS July 2015 3855-3869*

Intercalibration and Validation of Observations From ATMS and SAPHIR Microwave Sounders. *Moradi, I.*, +, *TGRS Nov. 2015 5915-5925*

Multi-GNSS Meteorology: Real-Time Retrieving of Atmospheric Water Vapor From BeiDou, Galileo, GLONASS, and GPS Observations. *Li, X.*, +, *TGRS Dec. 2015 6385-6393*

Near-Real-Time Estimation of Water Vapor Column From MSG-SEVIRI Thermal Infrared Bands: Implications for Land Surface Temperature Retrieval. *Julien, Y.*, +, *TGRS Aug. 2015 4231-4237*

Real-Time GPS Precise Point Positioning-Based Precipitable Water Vapor Estimation for Rainfall Monitoring and Forecasting. *Shi, J.*, +, *TGRS June 2015 3452-3459*

Retrieving Layer-Averaged Tropospheric Humidity From Advanced Technology Microwave Sounder Water Vapor Channels. *Moradi, I.*, +, *TGRS Dec. 2015 6675-6688*

Satellite Microwave Retrieval of Total Precipitable Water Vapor and Surface Air Temperature Over Land From AMSR2. *Du, J.*, +, *TGRS May 2015 2520-2531*

Sensitivity of Intercalibration Uncertainty of the CLARREO Reflected Solar Spectrometer Features. *Wu, A.*, +, *TGRS Sept. 2015 4741-4751*

Study on Influences of Atmospheric Factors on Vertical CO₂ Profile Retrieving From Ground-Based DIAL at 1.6 μm . *Han, G.*, +, *TGRS June 2015 3221-3234*

Atmospheric measuring apparatus

Advanced Microwave Atmospheric Sounder (AMAS) Channel Specifications and T/V Calibration Results on FY-3C Satellite. *Jieying, H.*, +, *TGRS Jan. 2015 481-493*

ASCAT Wind Quality Control Near Rain. *Lin, W.*, +, *TGRS Aug. 2015 4165-4177*

CLARREO Reflected Solar Spectrometer: Restrictions for Instrument Sensitivity to Polarization. *Lukashin, C.*, +, *TGRS Dec. 2015 6703-6709*

Design and Characterization of a Peltier-Cold Calibration Target for a 110-GHz Radiometer. *Fernandez, S.*, +, *TGRS Jan. 2015 344-351*

Evaluation of a MISR-Based High-Resolution Aerosol Retrieval Method Using AERONET DRAGON Campaign Data. *Moon, T.*, +, *TGRS Aug. 2015 4328-4339*

Imaging Analysis and First Results of the Geostationary Interferometric Microwave Sounder Demonstrator. *Zhang, C.*, +, *TGRS Jan. 2015 207-218*

Impact of Receiver Saturation on Surface Doppler Velocity Measurements From the EarthCARE Cloud Profiling Radar. *Battaglia, A.*, +, *TGRS March 2015 1205-1212*

Independent Laboratory Characterization of NEO HySpex Imaging Spectrometers VNIR-1600 and SWIR-320m-e. *Lenhard, K.*, +, *TGRS April 2015 1828-1841*

Intercalibration and Validation of Observations From ATMS and SAPHIR Microwave Sounders. *Moradi, I.*, +, *TGRS Nov. 2015 5915-5925*

Intercalibration of Advanced Microwave Scanning Radiometer-2 (AMSR2) Brightness Temperature. *Okayama, A.*, +, *TGRS Aug. 2015 4568-4577*

Near-Real-Time Estimation of Water Vapor Column From MSG-SEVIRI Thermal Infrared Bands: Implications for Land Surface Temperature Retrieval. *Julien, Y.*, +, *TGRS Aug. 2015 4231-4237*

Real-Time Noise Estimation and Correction in Dual-Polarization Radar Systems. *Beauchamp, R.M.*, +, *TGRS Nov. 2015 6183-6195*

Sensitivity of Intercalibration Uncertainty of the CLARREO Reflected Solar Spectrometer Features. *Wu, A.*, +, *TGRS Sept. 2015 4741-4751*

Sensitivity of PAZ LEO Polarimetric GNSS Radio-Occultation Experiment to Precipitation Events. *Cardellach, E.*, +, *TGRS Jan. 2015 190-206*

Temporal Filtering of InSAR Data Using Statistical Parameters From NWP Models. *Gong, W.*, +, *TGRS July 2015 4033-4044*

Using Ice Clouds for Mitigating the EarthCARE Doppler Radar Mispointing. *Battaglia, A.*, +, *TGRS April 2015 2079-2085*

Using Lunar Observations to Validate In-Flight Calibrations of Clouds and the Earth's Radiant Energy System Instruments. *Daniels, J.L.*, +, *TGRS Sept. 2015 5110-5116*

Atmospheric optics

Atmospheric Boundary Layer Height Estimation Using a Kalman Filter and a Frequency-Modulated Continuous-Wave Radar. *Lange, D.*, +, *TGRS June 2015 3338-3349*

Characterizing the Aerosol and Surface Reflectance Over Australia Using AATSR. *Qin, Y.*, +, *TGRS Nov. 2015 6163-6182*

CLARREO Reflected Solar Spectrometer: Restrictions for Instrument Sensitivity to Polarization. *Lukashin, C.*, +, *TGRS Dec. 2015 6703-6709*

Lidars With Narrow FOV for Daylight Measurements. *Eixmann, R.*, +, *TGRS Aug. 2015 4548-4553*

Measurement and Correction of Atmospheric Effects at Different Altitudes for Remote Sensing of Sun-Induced Fluorescence in Oxygen Absorption Bands. *Daumard, F.*, +, *TGRS Sept. 2015 5180-5196*

Retrieval of Atmospheric Aerosol and Surface Properties Over Land Using Satellite Observations. *Shi, G.*, +, *TGRS Feb. 2015 1039-1047*

Sensitivity of Intercalibration Uncertainty of the CLARREO Reflected Solar Spectrometer Features. *Wu, A.*, +, *TGRS Sept. 2015 4741-4751*

Atmospheric precipitation

A Semi-Empirical Model for Computing Land Surface Emissivity in the Microwave Region. *Ringerud, S.*, +, *TGRS April 2015 1935-1946*

Calibration and Evaluation of Precipitable Water Vapor From MODIS Infrared Observations at Night. *Chang, L.*, +, *TGRS May 2015 2612-2620*

Comparison of Theoretical Biases in Estimating Polarimetric Properties of Precipitation With Weather Radar Using Parabolic Reflector, or Planar and Cylindrical Arrays. *Lei, L.*, +, *TGRS Aug. 2015 4313-4327*

Mapping the Precipitation Type Distribution Over the Contiguous United States Using NOAA/NSSL National Multi-Sensor Mosaic QPE. *Chen, S.*, +, *TGRS Aug. 2015 4434-4443*

Atmospheric pressure

Measurement and Correction of Atmospheric Effects at Different Altitudes for Remote Sensing of Sun-Induced Fluorescence in Oxygen Absorption Bands. *Daumard, F.*, +, *TGRS Sept. 2015 5180-5196*

Study on Influences of Atmospheric Factors on Vertical CO₂ Profile Retrieving From Ground-Based DIAL at 1.6 μm . *Han, G.*, +, *TGRS June 2015 3221-3234*

Atmospheric radiation

Asymmetric Features of Oceanic Microwave Brightness Temperature in HighSurface Wind Speed Condition. *Kazumori, M.*, +, *TGRS Nov. 2015 5901-5914*

Characterizing the Aerosol and Surface Reflectance Over Australia Using AATSR. *Qin, Y.*, +, *TGRS Nov. 2015 6163-6182*

Error Characterization of Coupled Land Surface-Radiative Transfer Models for Snow Microwave Radiance Assimilation. *Kwon, Y.*, +, *TGRS Sept. 2015 5247-5268*

Estimation of Daily Surface Shortwave Net Radiation From the Combined MODIS Data. *Wang, D.*, +, *TGRS Oct. 2015 5519-5529*

High-Resolution Maps of Bathymetry and Benthic Habitats in Shallow-Water Environments Using Multispectral Remote Sensing Imagery. *Eugenio, F.*, +, *TGRS July 2015 3539-3549*

Large-Scale High-Resolution Modeling of Microwave Radiance of a Deep Maritime Alpine Snowpack. *Li, D.*, +, *TGRS May 2015 2308-2322*

On-Orbit Radiometric Calibration of Suomi NPP VIIRS Reflective Solar Bands Through Observations of a Sunlit Solar Diffuser Panel. *Lei, N.*, +, *TGRS Nov. 2015 5983-5990*

Prelaunch Radiometric Characterization and Calibration of the S-NPP VIIRS Sensor. *Oudrari, H.*, +, *TGRS April 2015 2195-2210*

Time-Sampling Errors of Earth Radiation From Satellites: Theory for Outgoing Longwave Radiation. *Smith, G.L.*, +, *TGRS March 2015 1656-1665*

Using Lunar Observations to Validate In-Flight Calibrations of Clouds and the Earth's Radiant Energy System Instruments. *Daniels, J.L.*, +, *TGRS Sept. 2015 5110-5116*

Atmospheric spectra

Emissivity and Temperature Assessment Using a Maximum Entropy Estimator: Structure and Performance of the MaxEntES Algorithm. *Barducci, A.*, +, *TGRS Feb. 2015 738-751*

Atmospheric techniques

A Backscattering Model of Rainfall Over Rough Sea Surface for Synthetic Aperture Radar. *Xu, F.*, +, *TGRS June 2015 3042-3054*

A Bayesian Method for Upsizing Single Disdrometer Drop Size Counts for Rain Physics Studies and Areal Applications. *Jameson, A.R.*, *TGRS Jan. 2015 335-343*

A Method to Increase the Scanning Rate of Phased-Array Weather Radar. *Melnikov, V.M.*, +, *TGRS Oct. 2015 5634-5643*

A Simplified Formulation for Rough Surface Cross-Polarized Backscattering Under the Second-Order Small-Slope Approximation. *Guerin, C.*, +, *TGRS Nov. 2015 6308-6314*

An Improved M-PRT Technique for Spectral Analysis of Weather Radar Observations. *Tahanout, M.*, +, *TGRS Oct. 2015 5572-5582*

ASCAT Wind Quality Control Near Rain. *Lin, W.*, +, *TGRS Aug. 2015 4165-4177*

Asymmetric Features of Oceanic Microwave Brightness Temperature in HighSurface Wind Speed Condition. *Kazumori, M.*, +, *TGRS Nov. 2015 5901-5914*

Atmospheric Boundary Layer Height Estimation Using a Kalman Filter and a Frequency-Modulated Continuous-Wave Radar. *Lange, D.*, +, *TGRS June 2015 3338-3349*

Characterizing the Aerosol and Surface Reflectance Over Australia Using AATSR. *Qin, Y.*, +, *TGRS Nov. 2015 6163-6182*

Comparison of Theoretical Biases in Estimating Polarimetric Properties of Precipitation With Weather Radar Using Parabolic Reflector, or Planar and Cylindrical Arrays. *Lei, L.*, +, *TGRS Aug. 2015 4313-4327*

- Emissivity and Temperature Assessment Using a Maximum Entropy Estimator: Structure and Performance of the MaxEnTES Algorithm. *Barducci, A.*, +, *TGRS Feb. 2015 738-751*
- Estimation of Daily Surface Shortwave Net Radiation From the Combined MODIS Data. *Wang, D.*, +, *TGRS Oct. 2015 5519-5529*
- Estimation of Light Rainfall Using Ku-Band Dual-Polarization Radar. *Chen, H.*, +, *TGRS Sept. 2015 5197-5208*
- Evaluation of Precipitation Retrievals From Orbital Data Products of TRMM Over a Subtropical Basin in India. *Indu, J.*, +, *TGRS Dec. 2015 6429-6442*
- Future Ocean Scatterometry: On the Use of Cross-Polar Scattering to Observe Very High Winds. *Fois, F.*, +, *TGRS Sept. 2015 5009-5020*
- Impact of Receiver Saturation on Surface Doppler Velocity Measurements From the EarthCARE Cloud Profiling Radar. *Battaglia, A.*, +, *TGRS March 2015 1205-1212*
- Independent Laboratory Characterization of NEO HySpex Imaging Spectrometers VNIR-1600 and SWIR-320m-e. *Lenhard, K.*, +, *TGRS April 2015 1828-1841*
- Inter-calibration of Advanced Microwave Scanning Radiometer-2 (AMSR2) Brightness Temperature. *Okuyama, A.*, +, *TGRS Aug. 2015 4568-4577*
- Lidars With Narrow FOV for Daylight Measurements. *Eixmann, R.*, +, *TGRS Aug. 2015 4548-4553*
- Modeling Radar Attenuation by a Low Melting Layer With Optimized Model Parameters at C-Band. *von Lerber, A.*, +, *TGRS Feb. 2015 724-737*
- Multi-GNSS Meteorology: Real-Time Retrieving of Atmospheric Water Vapor From BeiDou, Galileo, GLONASS, and GPS Observations. *Li, X.*, +, *TGRS Dec. 2015 6385-6393*
- Near-Real-Time Estimation of Water Vapor Column From MSG-SEVIRI Thermal Infrared Bands: Implications for Land Surface Temperature Retrieval. *Julien, Y.*, +, *TGRS Aug. 2015 4231-4237*
- On-Orbit Calibration Data-Processing Technologies for the Space-Based Infrared Camera. *Zhang, Y.*, +, *TGRS Dec. 2015 6372-6384*
- On-Orbit Radiometric Calibration of Suomi NPP VIIRS Reflective Solar Bands Through Observations of a Sunlit Solar Diffuser Panel. *Lei, N.*, +, *TGRS Nov. 2015 5983-5990*
- Postlaunch Calibration Update of MetOp-B AVHRR Reflective Solar Channels Using MetOp-A. *Chang, T.*, +, *TGRS May 2015 2286-2294*
- Prelaunch Radiometric Characterization and Calibration of the S-NPP VIIRS Sensor. *Oudrari, H.*, +, *TGRS April 2015 2195-2210*
- Real-Time GPS Precise Point Positioning-Based Precipitable Water Vapor Estimation for Rainfall Monitoring and Forecasting. *Shi, J.*, +, *TGRS June 2015 3452-3459*
- Reduced Image Aliasing With Microwave Radiometers and Weather Radar Through Windowed Spatial Averaging. *McLinden, M.L.*, +, *TGRS Dec. 2015 6639-6649*
- Separation of a Cirrus Layer and Broken Cumulus Clouds in Multispectral Images. *Yanovsky, I.*, +, *TGRS May 2015 2275-2285*
- Shrunken Locally Linear Embedding for Passive Microwave Retrieval of Precipitation. *Ebtehaj, A.M.*, +, *TGRS July 2015 3720-3736*
- The Impact of System Effects on Estimates of Faraday Rotation From Synthetic Aperture Radar Measurements. *Quegan, S.*, +, *TGRS Aug. 2015 4284-4298*
- Time-Sampling Errors of Earth Radiation From Satellites: Theory for Outgoing Longwave Radiation. *Smith, G.L.*, +, *TGRS March 2015 1656-1665*
- Uncertainty Assessment of the Estimated Atmospheric Delay Obtained by a Numerical Weather Model (NMW). *Mateus, P.*, +, *TGRS Dec. 2015 6710-6717*
- Using Ice Clouds for Mitigating the EarthCARE Doppler Radar Mispointing. *Battaglia, A.*, +, *TGRS April 2015 2079-2085*
- Using Lunar Observations to Validate In-Flight Calibrations of Clouds and the Earth's Radiant Energy System Instruments. *Daniels, J.L.*, +, *TGRS Sept. 2015 5110-5116*
- Weather Radar Data Interpolation Using a Kernel-Based Lagrangian Nowcasting Technique. *Ruzanski, E.*, +, *TGRS June 2015 3073-3083*

Atmospheric temperature

- Accurate Estimation of Atmospheric Water Vapor Using GNSS Observations and Surface Meteorological Data. *Alshawaf, F.*, +, *TGRS July 2015 3764-3771*
- Asymmetric Features of Oceanic Microwave Brightness Temperature in HighSurface Wind Speed Condition. *Kazumori, M.*, +, *TGRS Nov. 2015 5901-5914*
- Characteristics of the Trends in the Global Tropopause Estimated From COSMIC Radio Occultation Data. *Gao, P.*, +, *TGRS Dec. 2015 6813-6822*

- Classification of Alaska Spring Thaw Characteristics Using Satellite L-Band Radar Remote Sensing. *Du, J.*, +, *TGRS Jan. 2015 542-556*
- Inter-calibration and Validation of Observations From ATMS and SAPHIR Microwave Sounders. *Moradi, I.*, +, *TGRS Nov. 2015 5915-5925*
- Measurement and Correction of Atmospheric Effects at Different Altitudes for Remote Sensing of Sun-Induced Fluorescence in Oxygen Absorption Bands. *Daumard, F.*, +, *TGRS Sept. 2015 5180-5196*
- Radiometric Approach for Estimating Relative Changes in Intraglaciar Average Temperature. *Jezeq, K.C.*, +, *TGRS Jan. 2015 134-143*
- Satellite Microwave Retrieval of Total Precipitable Water Vapor and Surface Air Temperature Over Land From AMSR2. *Du, J.*, +, *TGRS May 2015 2520-2531*
- Study on Influences of Atmospheric Factors on Vertical CO₂ Profile Retrieving From Ground-Based DIAL at 1.6 μm . *Han, G.*, +, *TGRS June 2015 3221-3234*

Atmospheric thermodynamics

- Emissivity and Temperature Assessment Using a Maximum Entropy Estimator: Structure and Performance of the MaxEnTES Algorithm. *Barducci, A.*, +, *TGRS Feb. 2015 738-751*
- Sensitivity of PAZ LEO Polarimetric GNSS Radio-Occultation Experiment to Precipitation Events. *Cardellach, E.*, +, *TGRS Jan. 2015 190-206*

Atmospheric turbulence

- Atmospheric Boundary Layer Height Estimation Using a Kalman Filter and a Frequency-Modulated Continuous-Wave Radar. *Lange, D.*, +, *TGRS June 2015 3338-3349*
- Development and Operational Analysis of an All-Fiber Coherent Doppler Lidar System for Wind Sensing and Aerosol Profiling. *Abdelazim, S.*, +, *TGRS Dec. 2015 6495-6506*

Atmospheric waves

- A Backscattering Model of Rainfall Over Rough Sea Surface for Synthetic Aperture Radar. *Xu, F.*, +, *TGRS June 2015 3042-3054*

Atomic clocks

- HY-2A Radar Altimeter Ultrastable Oscillator Drift Estimation Using Reconstructive Transponder With Its Validation By Multimission Cross Calibration. *Wan, J.*, +, *TGRS Sept. 2015 5229-5236*

Attenuation measurement

- On-Orbit Characterization of S-NPP VIIRS Transmission Functions. *McIntire, J.*, +, *TGRS May 2015 2354-2365*

Autonomous underwater vehicles

- Automatic Sea-Surface Obstacle Detection and Tracking in Forward-Looking Sonar Image Sequences. *Karoui, I.*, +, *TGRS Aug. 2015 4661-4669*

Axial symmetry

- Detection and Quantification of Three-Dimensional Hydraulic Fractures With Horizontal Borehole Resistivity Measurements. *Yang, K.*, +, *TGRS Aug. 2015 4605-4615*

B

Backscatter

- A Global Sensitivity Analysis of Soil Parameters Associated With Backscattering Using the Advanced Integral Equation Model. *Ma, C.*, +, *TGRS Oct. 2015 5613-5623*
- Future Ocean Scatterometry: On the Use of Cross-Polar Scattering to Observe Very High Winds. *Fois, F.*, +, *TGRS Sept. 2015 5009-5020*
- Impact of Diurnal Variation in Vegetation Water Content on Radar Backscatter From Maize During Water Stress. *van Emmerik, T.*, +, *TGRS July 2015 3855-3869*
- Measuring the Variance of the Vertical Orbital Velocity Component by an Acoustic Wave Gauge With a Single Transceiver Antenna. *Titchenko, Y.A.*, +, *TGRS Aug. 2015 4340-4347*
- Multiangle Backscattering Observations of Continental Surfaces in Ku-Band (13 GHz) From Satellites: Understanding the Signals, Particularly in Arid Regions. *Prigent, C.*, +, *TGRS March 2015 1364-1373*
- SAR Altimeter Backscattered Waveform Model. *Ray, C.*, +, *TGRS Feb. 2015 911-919*
- The Interaction Between Faraday Rotation and System Effects in Synthetic Aperture Radar Measurements of Backscatter and Biomass. *Quegan, S.*, +, *TGRS Aug. 2015 4299-4312*
- Three-Dimensional Scattering Center Extraction Based on Wide Aperture Data at a Single Elevation. *Zhou, J.*, +, *TGRS March 2015 1638-1655*

Banach spaces

Analysis of Reconstructions Obtained Solving l^p -Penalized Minimization Problems. *Lenti, F.*, +, *TGRS Sept. 2015 4876-4886*

Bathymetry

A Radon-Transform-Based Image Noise Filter—With Applications to Multibeam Bathymetry. *Landmark, K.*, +, *TGRS Nov. 2015 6252-6273*

High-Resolution Maps of Bathymetry and Benthic Habitats in Shallow-Water Environments Using Multispectral Remote Sensing Imagery. *Eugenio, F.*, +, *TGRS July 2015 3539-3549*

Impact of Improved Calibration of a NEO HySpex VNIR-1600 Sensor on Remote Sensing of Water Depth. *Lenhard, K.*, +, *TGRS Nov. 2015 6085-6098*

Integration of Hyperspectral Imagery and Sparse Sonar Data for Shallow Water Bathymetry Mapping. *Cheng, L.*, +, *TGRS June 2015 3235-3249*

Bayes methods

A Bayesian Method for Upsizing Single Disdrometer Drop Size Counts for Rain Physics Studies and Areal Applications. *Jameson, A.R.*, *TGRS Jan. 2015 335-343*

A Bayesian Sparse Generalized Linear Model With an Application to Multiscale Covariate Discovery for Observed Rainfall Extremes Over the United States. *Das, D.*, +, *TGRS Dec. 2015 6689-6702*

Active Learning With Gaussian Process Classifier for Hyperspectral Image Classification. *Sun, S.*, +, *TGRS April 2015 1746-1760*

Evaluation of a MISR-Based High-Resolution Aerosol Retrieval Method Using AERONET DRAGON Campaign Data. *Moon, T.*, +, *TGRS Aug. 2015 4328-4339*

Inference of the Transition Matrix in Convolved Hidden Markov Models and the Generalized Baum–Welch Algorithm. *Lindberg, D.V.*, +, *TGRS Dec. 2015 6443-6456*

Object-Based Unsupervised Classification of VHR Panchromatic Satellite Images by Combining the HDP and IBP on Multiple Scenes. *Shu, Y.*, +, *TGRS Nov. 2015 6148-6162*

Sand Ripple Characterization Using an Extended Synthetic Aperture Sonar Model and Parallel Sampling Method. *Chen, C.*, +, *TGRS Oct. 2015 5547-5559*

Beam steering

Doppler-Related Distortions in TOPS SAR Images. *Rodriguez-Cassola, M.*, +, *TGRS Jan. 2015 25-35*

Belief networks

A Bayesian Network-Based Method to Alleviate the Ill-Posed Inverse Problem: A Case Study on Leaf Area Index and Canopy Water Content Retrieval. *Quan, X.*, +, *TGRS Dec. 2015 6507-6517*

Biological system modeling

Corrections to “Estimation of Forest Biomass From Two-Level Model Inversion of Single-Pass InSAR Data” {Sep 15 5083-5099}. *Soja, M.J.*, +, *TGRS Oct. 2015 5795*

Biomass

Corrections to “Estimation of Forest Biomass From Two-Level Model Inversion of Single-Pass InSAR Data” {Sep 15 5083-5099}. *Soja, M.J.*, +, *TGRS Oct. 2015 5795*

Blackbody radiation

Design and Characterization of a Peltier-Cold Calibration Target for a 110-GHz Radiometer. *Fernandez, S.*, +, *TGRS Jan. 2015 344-351*

Terra and Aqua MODIS Thermal Emissive Bands On-Orbit Calibration and Performance. *Xiong, X.*, +, *TGRS Oct. 2015 5709-5721*

Blind source separation

Polarimetric Incoherent Target Decomposition by Means of Independent Component Analysis. *Besic, N.*, +, *TGRS March 2015 1236-1247*

Boundary integral equations

An Efficient Multiregion FEM-BIM for Composite Scattering From an Arbitrary Dielectric Target Above Dielectric Rough Sea Surfaces. *Guo, L.*, +, *TGRS July 2015 3885-3896*

Brightness

The Radiometric Stability and Scaling of Collection 6 Terra- and Aquamodis VIS, NIR, and SWIR Spectral Bands. *Doelling, D.R.*, +, *TGRS Aug. 2015 4520-4535*

Brownian motion

Synthesis of Fractal Surfaces for Remote-Sensing Applications. *Riccio, D.*, +, *TGRS July 2015 3803-3814*

Buildings (structures)

A Multiscale and Hierarchical Feature Extraction Method for Terrestrial Laser Scanning Point Cloud Classification. *Wang, Z.*, +, *TGRS May 2015 2409-2425*

Automatic Construction of 3-D Building Model From Airborne LIDAR Data Through 2-D Snake Algorithm. *Yan, J.*, +, *TGRS Jan. 2015 3-14*

Robust Reconstruction of Building Facades for Large Areas Using Spaceborne TomoSAR Point Clouds. *Shahzad, M.*, +, *TGRS Feb. 2015 752-769*

Robust Rooftop Extraction From Visible Band Images Using Higher Order CRF. *Li, E.*, +, *TGRS Aug. 2015 4483-4495*

Buried object detection

Change Detection in Constellations of Buried Objects Extracted From Ground-Penetrating Radar Data. *Paglieroni, D.W.*, +, *TGRS May 2015 2426-2439*

Temporal Orthogonal Projection Inversion for EMI Sensing of UXO. *Song, L.*, +, *TGRS Feb. 2015 1061-1072*

C**Calculus**

Multichannel Phase Unwrapping: Problem Topology and Dual-Level Parallel Computational Model. *Imperatore, P.*, +, *TGRS Oct. 2015 5774-5793*

Calibration

In Situ Calibration of Light Sensors for Long-Term Monitoring of Vegetation. *Jin, H.*, +, *TGRS June 2015 3405-3416*

A New Framework for SAR Multitemporal Data RGB Representation: Rationale and Products. *Amitrano, D.*, +, *TGRS Jan. 2015 117-133*

A New Method for Suomi-NPP VIIRS Day–Night Band On-Orbit Radiometric Calibration. *Lee, S.*, +, *TGRS Jan. 2015 324-334*

A Self-Adaptive Wavelet-Based Algorithm for Wave Measurement Using Nautical Radar. *An, J.*, +, *TGRS Jan. 2015 567-577*

Adaptive Control of Undetected Radio Frequency Interference With a Spaceborne Microwave Radiometer. *Chen, D.D.*, +, *TGRS Sept. 2015 4972-4984*

Advanced Microwave Atmospheric Sounder (AMAS) Channel Specifications and T/V Calibration Results on FY-3C Satellite. *Jieying, H.*, +, *TGRS Jan. 2015 481-493*

Atmospheric Effects Removal for the Infrared Image Sequences. *Ozsarac, S.*, +, *TGRS Sept. 2015 4899-4909*

Calibration and Validation of ZY-3 Optical Sensors. *Chen, Y.*, +, *TGRS Aug. 2015 4616-4626*

Calibration of SAR Polarimetric Images by Means of a Covariance Matching Approach. *Villa, A.*, +, *TGRS Feb. 2015 674-686*

Calibration of the Mercury Laser Altimeter on the MESSENGER Spacecraft. *Sun, X.*, +, *TGRS May 2015 2860-2874*

Cross-Calibration of the HSI Sensor Reflective Solar Bands Using Hyperion Data. *Gao, H.*, +, *TGRS July 2015 4127-4137*

Design and Characterization of a Peltier-Cold Calibration Target for a 110-GHz Radiometer. *Fernandez, S.*, +, *TGRS Jan. 2015 344-351*

Discrimination of Buried Objects in Impulse GPR Using Phase Retrieval Technique. *Huuskonen-Snicker, E.*, +, *TGRS Feb. 2015 1001-1007*

Empirical Waveform Decomposition and Radiometric Calibration of a Terrestrial Full-Waveform Laser Scanner. *Hartzell, P.J.*, +, *TGRS Jan. 2015 162-172*

HY-2A Radar Altimeter Ultrastable Oscillator Drift Estimation Using Reconstructive Transponder With Its Validation By Multimission Cross Calibration. *Wan, J.*, +, *TGRS Sept. 2015 5229-5236*

Impact of Improved Calibration of a NEO HySpex VNIR-1600 Sensor on Remote Sensing of Water Depth. *Lenhard, K.*, +, *TGRS Nov. 2015 6085-6098*

Independent Laboratory Characterization of NEO HySpex Imaging Spectrometers VNIR-1600 and SWIR-320m-e. *Lenhard, K.*, +, *TGRS April 2015 1828-1841*

Intercalibration of Advanced Microwave Scanning Radiometer-2 (AMSR2) Brightness Temperature. *Okuyama, A.*, +, *TGRS Aug. 2015 4568-4577*

Investigation of the Electronic Crosstalk in Terra MODIS Band 28. *Sun, J.*, +, *TGRS Oct. 2015 5722-5733*

MTSAT-1R Visible Imager Point Spread Correction Function, Part I: The Need for, Validation of, and Calibration With. *Doelling, D.R.*, +, *TGRS March 2015 1513-1526*

On-Orbit Calibration Data-Processing Technologies for the Space-Based Infrared Camera. *Zhang, Y.*, +, *TGRS Dec. 2015 6372-6384*

On-Orbit Radiometric Calibration of Suomi NPP VIIRS Reflective Solar Bands Through Observations of a Sunlit Solar Diffuser Panel. *Lei, N.*, +, *TGRS Nov. 2015 5983-5990*

- Operational BRDF Effects Correction for Wide-Field-of-View Optical Scanners (BREFCOR). *Schlapfer, D.*, +, *TGRS April 2015 1855-1864*
- Precise Three-Dimensional Stereo Localization of Corner Reflectors and Persistent Scatterers With TerraSAR-X. *Gisinger, C.*, +, *TGRS April 2015 1782-1802*
- Prelaunch Radiometric Characterization and Calibration of the S-NPP VIIRS Sensor. *Oudrari, H.*, +, *TGRS April 2015 2195-2210*
- Reconstruction of Coherent Pairs of Synthetic Aperture Radar Data Acquired in Interrupted Mode. *Pinheiro, M.*, +, *TGRS April 2015 1876-1893*
- S2eteS: An End-to-End Modeling Tool for the Simulation of Sentinel-2 Image Products. *Segl, K.*, +, *TGRS Oct. 2015 5560-5571*
- Self-Calibration Adjustment of CBERS-02B Long-Strip Imagery. *Zheng, M.*, +, *TGRS July 2015 3847-3854*
- Sensitivity of Intercalibration Uncertainty of the CLARREO Reflected Solar Spectrometer Features. *Wu, A.*, +, *TGRS Sept. 2015 4741-4751*
- Systematic Error Compensation Based on a Rational Function Model for Ziyuan1-02C. *Jiang, Y.*, +, *TGRS July 2015 3985-3995*
- Terra and Aqua MODIS Thermal Emissive Bands On-Orbit Calibration and Performance. *Xiong, X.*, +, *TGRS Oct. 2015 5709-5721*
- The Radiometric Stability and Scaling of Collection 6 Terra- and Aqua-MODIS VIS, NIR, and SWIR Spectral Bands. *Doelling, D.R.*, +, *TGRS Aug. 2015 4520-4535*
- UAVSAR Polarimetric Calibration. *Fore, A.G.*, +, *TGRS June 2015 3481-3491*
- Uncertainty Evaluation of an In-Flight Absolute Radiometric Calibration Using a Statistical Monte Carlo Method. *Chen, W.*, +, *TGRS May 2015 2925-2934*
- Update of VIIRS On-Orbit Spatial Parameters Characterized With the Moon. *Wang, Z.*, +, *TGRS Oct. 2015 5486-5494*
- Using Lunar Observations to Validate In-Flight Calibrations of Clouds and the Earth's Radiant Energy System Instruments. *Daniels, J.L.*, +, *TGRS Sept. 2015 5110-5116*
- Cameras**
- Aerial Image Registration for Tracking. *Linger, M.E.*, +, *TGRS April 2015 2137-2145*
- Atmospheric Effects Removal for the Infrared Image Sequences. *Ozsarac, S.*, +, *TGRS Sept. 2015 4899-4909*
- Forest Data Collection Using Terrestrial Image-Based Point Clouds From a Handheld Camera Compared to Terrestrial and Personal Laser Scanning. *Liang, X.*, +, *TGRS Sept. 2015 5117-5132*
- On-Orbit Calibration Data-Processing Technologies for the Space-Based Infrared Camera. *Zhang, Y.*, +, *TGRS Dec. 2015 6372-6384*
- Self-Calibration Adjustment of CBERS-02B Long-Strip Imagery. *Zheng, M.*, +, *TGRS July 2015 3847-3854*
- Celestial mechanics**
- Attitude Oscillation Detection of the ZY-3 Satellite by Using Multispectral Parallax Images. *Tong, X.*, +, *TGRS June 2015 3522-3534*
- Cellular automata**
- Contextual and Hierarchical Classification of Satellite Images Based on Cellular Automata. *Espinola, M.*, +, *TGRS Feb. 2015 795-809*
- Charge-coupled devices**
- A New Method for Suomi-NPP VIIRS Day-Night Band On-Orbit Radiometric Calibration. *Lee, S.*, +, *TGRS Jan. 2015 324-334*
- Chirp modulation**
- Robust Clutter Suppression and Moving Target Imaging Approach for Multichannel in Azimuth High-Resolution and Wide-Swath Synthetic Aperture Radar. *Zhang, S.*, +, *TGRS Feb. 2015 687-709*
- Civil engineering**
- Calibration of FDTD Simulation of GPR Signal for Asphalt Pavement Compaction Monitoring. *Shangguan, P.*, +, *TGRS March 2015 1538-1548*
- Clay**
- On the Feasibility of Characterizing Soil Properties From AVIRIS Data. *Dutta, D.*, +, *TGRS Sept. 2015 5133-5147*
- Climatology**
- A Bayesian Sparse Generalized Linear Model With an Application to Multiscale Covariate Discovery for Observed Rainfall Extremes Over the United States. *Das, D.*, +, *TGRS Dec. 2015 6689-6702*
- Calibration and Evaluation of Precipitable Water Vapor From MODIS Infrared Observations at Night. *Chang, L.*, +, *TGRS May 2015 2612-2620*
- Classification of Alaska Spring Thaw Characteristics Using Satellite L-Band Radar Remote Sensing. *Du, J.*, +, *TGRS Jan. 2015 542-556*
- Intercomparison of Precipitation Estimates From WSR-88D Radar and TRMM Measurement Over Continental United States. *Chen, S.*, +, *TGRS Aug. 2015 4444-4456*
- Clouds**
- A Bayesian Method for Upsizing Single Disdrometer Drop Size Counts for Rain Physics Studies and Areal Applications. *Jameson, A.R.*, *TGRS Jan. 2015 335-343*
- A Model for the Complex Dielectric Constant of Supercooled Liquid Water at Microwave Frequencies. *Rosenkranz, P.W.*, *TGRS March 2015 1387-1393*
- Analysis of Interactions Among Two Tropical Depressions and Typhoons Tembin and Bolaven (2012) in Pacific Ocean by Using Satellite Cloud Images. *Liu, J.*, +, *TGRS March 2015 1394-1402*
- Impact of Diurnal Variation in Vegetation Water Content on Radar Backscatter From Maize During Water Stress. *van Emmerik, T.*, +, *TGRS July 2015 3855-3869*
- Impact of Receiver Saturation on Surface Doppler Velocity Measurements From the EarthCARE Cloud Profiling Radar. *Battaglia, A.*, +, *TGRS March 2015 1205-1212*
- Separation of a Cirrus Layer and Broken Cumulus Clouds in Multispectral Images. *Yanovsky, I.*, +, *TGRS May 2015 2275-2285*
- Using Lunar Observations to Validate In-Flight Calibrations of Clouds and the Earth's Radiant Energy System Instruments. *Daniels, J.L.*, +, *TGRS Sept. 2015 5110-5116*
- Clutter**
- Simulation of Correlated Low-Grazing-Angle Sea Clutter Based on Phase Retrieval. *Wang, J.*, +, *TGRS July 2015 3917-3930*
- Coherence**
- PolInSAR Coherence Region Modeling and Inversion: The Best Normal Matrix Approximation Solution. *Cui, Y.*, +, *TGRS Feb. 2015 1048-1060*
- Collision avoidance**
- Corrections to "Automatic Sea-Surface Obstacle Detection and Tracking in Forward-Looking Sonar Image Sequences" [Aug 15 4661-4669]. *Karoui, I.*, +, *TGRS Nov. 2015 6315*
- Compensation**
- Automated Underwater Object Recognition by Means of Fluorescence LIDAR. *Matteoli, S.*, +, *TGRS Jan. 2015 375-393*
- Doppler-Related Distortions in TOPS SAR Images. *Rodriguez-Cassola, M.*, +, *TGRS Jan. 2015 25-35*
- Compressed sensing**
- Compressed-Domain Ship Detection on Spaceborne Optical Image Using Deep Neural Network and Extreme Learning Machine. *Tang, J.*, +, *TGRS March 2015 1174-1185*
- Compressive Hyperspectral Imaging via Sparse Tensor and Nonlinear Compressed Sensing. *Yang, S.*, +, *TGRS Nov. 2015 5943-5957*
- Gabor Feature-Based Collaborative Representation for Hyperspectral Imagery Classification. *Jia, S.*, +, *TGRS Feb. 2015 1118-1129*
- HYCA: A New Technique for Hyperspectral Compressive Sensing. *Martin, G.*, +, *TGRS May 2015 2819-2831*
- Novel Methods to Accelerate CS Radar Imaging by NUFFT. *Sun, S.*, +, *TGRS Jan. 2015 557-566*
- Sampling of Time-Resolved Full-Waveform LIDAR Signals at Sub-Nyquist Rates. *Castorena, J.*, +, *TGRS July 2015 3791-3802*
- Spectral Image Unmixing From Optimal Coded-Aperture Compressive Measurements. *Ramirez, A.*, +, *TGRS Jan. 2015 405-415*
- Wall Clutter Mitigation Using Discrete Prolate Spheroidal Sequences for Sparse Reconstruction of Indoor Stationary Scenes. *Ahmad, F.*, +, *TGRS March 2015 1549-1557*
- Computational complexity**
- A Novel Negative Abundance-Oriented Hyperspectral Unmixing Algorithm. *Marrero, R.*, +, *TGRS July 2015 3772-3790*
- Complementarity of Discriminative Classifiers and Spectral Unmixing Techniques for the Interpretation of Hyperspectral Images. *Li, J.*, +, *TGRS May 2015 2899-2912*
- Efficient Superpixel-Level Multitask Joint Sparse Representation for Hyperspectral Image Classification. *Li, J.*, +, *TGRS Oct. 2015 5338-5351*
- Gabor Feature-Based Collaborative Representation for Hyperspectral Imagery Classification. *Jia, S.*, +, *TGRS Feb. 2015 1118-1129*
- Marine Electrical Sensing for Detecting Small Inhomogeneities. *Polydorides, N.*, +, *TGRS Feb. 2015 988-1000*
- Multiplicative-Regularized FFT Twofold Subspace-Based Optimization Method for Inverse Scattering Problems. *Xu, K.*, +, *TGRS Feb. 2015 841-850*
- Novel Methods to Accelerate CS Radar Imaging by NUFFT. *Sun, S.*, +, *TGRS Jan. 2015 557-566*

Computational electromagnetics

Extension of the Spectral Acceleration Method to Lossy Medium and Its Application to Electromagnetic Scattering From Rough Surfaces. *Wang, Y.*, +, *TGRS April 2015 1865-1875*

Marine Electrical Sensing for Detecting Small Inhomogeneities. *Polydorides, N.*, +, *TGRS Feb. 2015 988-1000*

Three-Dimensional Scattering and Inverse Scattering from Objects With Simultaneous Permittivity and Permeability Contrasts. *Zhang, W.*, +, *TGRS Jan. 2015 429-439*

Computational geometry

Local-Manifold-Learning-Based Graph Construction for Semisupervised Hyperspectral Image Classification. *Ma, L.*, +, *TGRS May 2015 2832-2844*

Conjugate gradient methods

Three-Dimensional Scattering and Inverse Scattering from Objects With Simultaneous Permittivity and Permeability Contrasts. *Zhang, W.*, +, *TGRS Jan. 2015 429-439*

Convex programming

HYCA: A New Technique for Hyperspectral Compressive Sensing. *Martin, G.*, +, *TGRS May 2015 2819-2831*

Convolution

Including Antenna Mispointing in a Semi-Analytical Model for Delay/Doppler Altimetry. *Halimi, A.*, +, *TGRS Feb. 2015 598-608*

Correlation methods

A High-Order Imaging Algorithm for High-Resolution Spaceborne SAR Based on a Modified Equivalent Squint Range Model. *Wang, P.*, +, *TGRS March 2015 1225-1235*

A Novel Subpixel Phase Correlation Method Using Singular Value Decomposition and Unified Random Sample Consensus. *Tong, X.*, +, *TGRS Aug. 2015 4143-4156*

Analysis of Multistatic Pixel Correlation in SAR. *Duersch, M.I.*, +, *TGRS Jan. 2015 362-374*

Extracting Migrant Flight Orientation Profiles Using Polarimetric Radar. *Stepanian, P.M.*, +, *TGRS Dec. 2015 6518-6528*

HYCA: A New Technique for Hyperspectral Compressive Sensing. *Martin, G.*, +, *TGRS May 2015 2819-2831*

Hyperspectral Image Denoising via Sparse Representation and Low-Rank Constraint. *Zhao, Y.*, +, *TGRS Jan. 2015 296-308*

Radon-Linear Canonical Ambiguity Function-Based Detection and Estimation Method for Marine Target With Micromotion. *Chen, X.*, +, *TGRS April 2015 2225-2240*

Correlation theory

Class-Dependent Sparse Representation Classifier for Robust Hyperspectral Image Classification. *Cui, M.*, +, *TGRS May 2015 2683-2695*

Spectral-Spatial Kernel Regularized for Hyperspectral Image Denoising. *Yuan, Y.*, +, *TGRS July 2015 3815-3832*

Covariance analysis

Calibration of SAR Polarimetric Images by Means of a Covariance Matching Approach. *Villa, A.*, +, *TGRS Feb. 2015 674-686*

Covariance matrices

CAESAR: An Approach Based on Covariance Matrix Decomposition to Improve Multibaseline-Multitemporal Interferometric SAR Processing. *Fornaro, G.*, +, *TGRS April 2015 2050-2065*

Fast Statistically Homogeneous Pixel Selection for Covariance Matrix Estimation for Multitemporal InSAR. *Jiang, M.*, +, *TGRS March 2015 1213-1224*

Geodetic Network Design for InSAR. *Mahapatra, P.S.*, +, *TGRS July 2015 3669-3680*

Phase Inconsistencies and Multiple Scattering in SAR Interferometry. *De Zan, F.*, +, *TGRS Dec. 2015 6608-6616*

Crack detection

Iterative Tensor Voting for Pavement Crack Extraction Using Mobile Laser Scanning Data. *Guan, H.*, +, *TGRS March 2015 1527-1537*

Critical points

Emissivity and Temperature Assessment Using a Maximum Entropy Estimator: Structure and Performance of the MaxEnTES Algorithm. *Barducci, A.*, +, *TGRS Feb. 2015 738-751*

Crops

Dynamical Approach for Real-Time Monitoring of Agricultural Crops. *Vicente-Guijalba, F.*, +, *TGRS June 2015 3278-3293*

Impact of Diurnal Variation in Vegetation Water Content on Radar Backscatter From Maize During Water Stress. *van Emmerik, T.*, +, *TGRS July 2015 3855-3869*

Paddy-Rice Monitoring Using TanDEM-X. *Rossi, C.*, +, *TGRS Feb. 2015 900-910*

The Soil Moisture Active Passive Validation Experiment 2012 (SMAPVEX12): Prelaunch Calibration and Validation of the SMAP Soil Moisture Algorithms. *McNairn, H.*, +, *TGRS May 2015 2784-2801*

Crosstalk

Investigation of the Electronic Crosstalk in Terra MODIS Band 28. *Sun, J.*, +, *TGRS Oct. 2015 5722-5733*

MTSAT-1R Visible Imager Point Spread Function Correction, Part II: Theory. *Khlopenkov, K.V.*, +, *TGRS March 2015 1504-1512*

Curve fitting

Arctic Sea Ice Freeboard Retrieval With Waveform Characteristics for NASA's Airborne Topographic Mapper (ATM) and Land, Vegetation, and Ice Sensor (LVIS). *Yi, D.*, +, *TGRS March 2015 1403-1410*

Dielectric Properties of Saline Soils and an Improved Dielectric Model in C-Band. *Wu, Y.*, +, *TGRS Jan. 2015 440-452*

Curvelet transforms

Spectral-Spatial Classification of Hyperspectral Data via Morphological Component Analysis-Based Image Separation. *Xue, Z.*, +, *TGRS Jan. 2015 70-84*

CW radar

Generalized Frequency Scaling and Backprojection for LFM-CW SAR Processing. *Zaugg, E.C.*, +, *TGRS July 2015 3600-3614*

D**Data acquisition**

An Error-Bound-Regularized Sparse Coding for Spatiotemporal Reflectance Fusion. *Wu, B.*, +, *TGRS Dec. 2015 6791-6803*

Correcting Distortion of Polarimetric SAR Data Induced by Ionospheric Scintillation. *Kim, J.S.*, +, *TGRS Dec. 2015 6319-6335*

Dynamical Approach for Real-Time Monitoring of Agricultural Crops. *Vicente-Guijalba, F.*, +, *TGRS June 2015 3278-3293*

Estimation of Forest Biomass From Two-Level Model Inversion of Single-Pass InSAR Data. *Soja, M.J.*, +, *TGRS Sept. 2015 5083-5099*

Forest Height Estimation by Means of Pol-InSAR Data Inversion: The Role of the Vertical Wavenumber. *Kugler, F.*, +, *TGRS Oct. 2015 5294-5311*

GPR Prospecting Through an Inverse-Scattering Frequency-Hopping Multifocusing Approach. *Salucci, M.*, +, *TGRS Dec. 2015 6573-6592*

Intensity Correction of Terrestrial Laser Scanning Data by Estimating Laser Transmission Function. *Fang, W.*, +, *TGRS Feb. 2015 942-951*

MAGI: A New High-Performance Airborne Thermal-Infrared Imaging Spectrometer for Earth Science Applications. *Hall, J.L.*, +, *TGRS Oct. 2015 5447-5457*

Quantization Effects in TanDEM-X Data. *Martone, M.*, +, *TGRS Feb. 2015 583-597*

S2eteS: An End-to-End Modeling Tool for the Simulation of Sentinel-2 Image Products. *Segl, K.*, +, *TGRS Oct. 2015 5560-5571*

Sentinel-1A: Analysis of FDBAQ Performance on Real Data. *Guccione, P.*, +, *TGRS Dec. 2015 6804-6812*

Spatial Decorrelation in GNSS-Based SAR Coherent Change Detection. *Zhang, Q.*, +, *TGRS Jan. 2015 219-228*

Temporal Stability of X-Band Single-Pass InSAR Heights in a Spruce Forest: Effects of Acquisition Properties and Season. *Solberg, S.*, +, *TGRS March 2015 1607-1614*

Data analysis

Forest Height Estimation by Means of Pol-InSAR Data Inversion: The Role of the Vertical Wavenumber. *Kugler, F.*, +, *TGRS Oct. 2015 5294-5311*

Sparse Unmixing of Hyperspectral Data Using Spectral *A Priori* Information. *Tang, W.*, +, *TGRS Feb. 2015 770-783*

The Effect of Boreal Forest Canopy in Satellite Snow Mapping—A Multi-sensor Analysis. *Cohen, J.*, +, *TGRS Dec. 2015 6593-6607*

Data assimilation

A Framework for Consistent Estimation of Leaf Area Index, Fraction of Absorbed Photosynthetically Active Radiation, and Surface Albedo from MODIS Time-Series Data. *Xiao, Z.*, +, *TGRS June 2015 3178-3197*

Characterizing Snowpack and the Freeze-Thaw State of Underlying Soil via Assimilation of Multifrequency Passive/Active Microwave Data: A Case Study (NASA CLPX 2003). *Bateni, S.M.*, +, *TGRS Jan. 2015 173-189*

Error Characterization of Coupled Land Surface-Radiative Transfer Models for Snow Microwave Radiance Assimilation. *Kwon, Y.*, +, *TGRS Sept. 2015 5247-5268*

Large-Scale High-Resolution Modeling of Microwave Radiance of a Deep Maritime Alpine Snowpack. *Li, D.*, +, *TGRS May 2015 2308-2322*

Data compression

- Compressed-Domain Ship Detection on Spaceborne Optical Image Using Deep Neural Network and Extreme Learning Machine. *Tang, J.*, +, *TGRS March 2015 1174-1185*
- Isorange Pairwise Orthogonal Transform. *Blanes, I.*, +, *TGRS June 2015 3361-3372*

Data mining

- A New Framework for SAR Multitemporal Data RGB Representation: Rationale and Products. *Amitrano, D.*, +, *TGRS Jan. 2015 117-133*
- Knowledge-Based Multitarget Ship Tracking for HF Surface Wave Radar Systems. *Vivone, G.*, +, *TGRS July 2015 3931-3949*

Data reduction

- A Novel Feature Selection Approach Based on FODPSO and SVM. *Ghamisi, P.*, +, *TGRS May 2015 2935-2947*
- Dimensionality Reduction of Hyperspectral Images With Sparse Discriminant Embedding. *Huang, H.*, +, *TGRS Sept. 2015 5160-5169*
- Model-Based Fusion of Multi- and Hyperspectral Images Using PCA and Wavelets. *Palsson, F.*, +, *TGRS May 2015 2652-2663*

Data structures

- A New Framework for SAR Multitemporal Data RGB Representation: Rationale and Products. *Amitrano, D.*, +, *TGRS Jan. 2015 117-133*
- Pyramid of Spatial Relations for Scene-Level Land Use Classification. *Chen, S.*, +, *TGRS April 2015 1947-1957*

Data visualization

- A Cumulative Distribution Function Method for Normalizing Variable-Angle Microwave Observations. *Ye, N.*, +, *TGRS July 2015 3906-3916*
- Hyperspectral Band Selection by Multitask Sparsity Pursuit. *Yuan, Y.*, +, *TGRS Feb. 2015 631-644*

Decision theory

- Automated Underwater Object Recognition by Means of Fluorescence LIDAR. *Matteoli, S.*, +, *TGRS Jan. 2015 375-393*
- Local Binary Patterns and Extreme Learning Machine for Hyperspectral Imagery Classification. *Li, W.*, +, *TGRS July 2015 3681-3693*

Decision trees

- A Methodology to Determine Radio-Frequency Interference in AMSR2 Observations. *de Nijs, A.H.A.*, +, *TGRS Sept. 2015 5148-5159*
- Fast Analysis of C-Scans From Ground Penetrating Radar via 3-D Haar-Like Features With Application to Landmine Detection. *Klesk, P.*, +, *TGRS July 2015 3996-4009*
- Random Subspace Ensembles for Hyperspectral Image Classification With Extended Morphological Attribute Profiles. *Xia, J.*, +, *TGRS Sept. 2015 4768-4786*
- Urban Land Use Information Extraction Using the Ultrahigh-Resolution Chinese Airborne SAR Imagery. *Wu, W.*, +, *TGRS Oct. 2015 5583-5599*

Decomposition

- Empirical Waveform Decomposition and Radiometric Calibration of a Terrestrial Full-Waveform Laser Scanner. *Hartzell, P.J.*, +, *TGRS Jan. 2015 162-172*

Deconvolution

- Constrained Least Squares Algorithms for Nonlinear Unmixing of Hyperspectral Imagery. *Pu, H.*, +, *TGRS March 2015 1287-1303*
- Efficient Deconvolution of Ground-Penetrating Radar Data. *Schmelzbach, C.*, +, *TGRS Sept. 2015 5209-5217*
- Indicator Cokriging-Based Subpixel Mapping Without Prior Spatial Structure Information. *Wang, Q.*, +, *TGRS Jan. 2015 309-323*
- Pansharpening Based on Semiblind Deconvolution. *Vivone, G.*, +, *TGRS April 2015 1997-2010*

Decorrelation

- Deformation Parameter Estimation in Low Coherence Areas Using a Multisatellite InSAR Approach. *Morishita, Y.*, +, *TGRS Aug. 2015 4275-4283*
- Spatial Decorrelation in GNSS-Based SAR Coherent Change Detection. *Zhang, Q.*, +, *TGRS Jan. 2015 219-228*

Deformation

- An Approach to Fine Coregistration Between Very High Resolution Multispectral Images Based on Registration Noise Distribution. *Han, Y.*, +, *TGRS Dec. 2015 6650-6662*
- Deformation Parameter Estimation in Low Coherence Areas Using a Multisatellite InSAR Approach. *Morishita, Y.*, +, *TGRS Aug. 2015 4275-4283*
- Geodetic Network Design for InSAR. *Mahapatra, P.S.*, +, *TGRS July 2015 3669-3680*
- X-Band Interferometric SAR Observations of Baltic Fast Ice. *Berg, A.*, +, *TGRS March 2015 1248-1256*

Delays

- An Imaging Compensation Algorithm for Correcting the Impact of Tropospheric Delay on Spaceborne High-Resolution SAR. *Yu, Z.*, +, *TGRS Sept. 2015 4825-4836*
- Self-Calibration Adjustment of CBERS-02B Long-Strip Imagery. *Zheng, M.*, +, *TGRS July 2015 3847-3854*

Density measurement

- Calibration of FDTD Simulation of GPR Signal for Asphalt Pavement Compaction Monitoring. *Shangguan, P.*, +, *TGRS March 2015 1538-1548*

Design engineering

- Design and Characterization of a Peltier-Cold Calibration Target for a 110-GHz Radiometer. *Fernandez, S.*, +, *TGRS Jan. 2015 344-351*

Dictionaries

- Hyperspectral and Multispectral Image Fusion Based on a Sparse Representation. *Wei, Q.*, +, *TGRS July 2015 3658-3668*

Dielectric bodies

- A Novel Approximate Solution for Electromagnetic Scattering by Dielectric Disks. *Wang, L.*, +, *TGRS May 2015 2948-2955*

Dielectric properties

- Wideband Frequency Domain Method of Soil Dielectric Property Measurements. *Bobrov, P.P.*, +, *TGRS May 2015 2366-2372*

Digital elevation models

- Anisotropic Phase Unwrapping for Synthetic Aperture Radar Interferometry. *Danudirdjo, D.*, +, *TGRS July 2015 4116-4126*
- Automated Generation of a Digital Elevation Model Over Steep Terrain in Antarctica From High-Resolution Satellite Imagery. *Lee, C.*, +, *TGRS March 2015 1186-1194*
- Automatic Orthorectification of High-Resolution Optical Satellite Images Using Vector Roads. *Marsetic, A.*, +, *TGRS Nov. 2015 6035-6047*
- Corrections to "Estimation of Forest Biomass From Two-Level Model Inversion of Single-Pass InSAR Data" [Sep 15 5083-5099]. *Soja, M.J.*, +, *TGRS Oct. 2015 5795*
- Development of Onboard Digital Elevation and Relief Databases for ICESat-2. *Leigh, H.W.*, +, *TGRS April 2015 2011-2020*
- Estimating Forest Biomass From TerraSAR-X Stripmap Radargrammetry. *Solberg, S.*, +, *TGRS Jan. 2015 154-161*
- Estimation of Forest Biomass From Two-Level Model Inversion of Single-Pass InSAR Data. *Soja, M.J.*, +, *TGRS Sept. 2015 5083-5099*
- Experimental Results and Algorithm Analysis of DEM Generation Using Bistatic SAR Interferometry With Stationary Receiver. *Zeng, T.*, +, *TGRS Nov. 2015 5835-5852*
- High-Resolution InSAR Building Layovers Detection and Exploitation. *Rossi, C.*, +, *TGRS Dec. 2015 6457-6468*
- InSAR Image Regularization and DEM Error Correction With Fractal Surface Scattering Model. *Danudirdjo, D.*, +, *TGRS March 2015 1427-1439*
- Mapping Aboveground Biomass in Northern Japanese Forests Using the ALOS PRISM Digital Surface Model. *Motohka, T.*, +, *TGRS April 2015 1683-1691*
- Paddy-Rice Monitoring Using TanDEM-X. *Rossi, C.*, +, *TGRS Feb. 2015 900-910*
- Phase Offset Calculation for Airborne InSAR DEM Generation Without Corner Reflectors. *Perna, S.*, +, *TGRS May 2015 2713-2726*
- Quantization Effects in TanDEM-X Data. *Martone, M.*, +, *TGRS Feb. 2015 583-597*
- Temporal Stability of X-Band Single-Pass InSAR Heights in a Spruce Forest: Effects of Acquisition Properties and Season. *Solberg, S.*, +, *TGRS March 2015 1607-1614*
- Topography Retrieval From Single-Pass POLSAR Data Based on the Polarization-Dependent Intensity Ratio. *Li, Y.*, +, *TGRS June 2015 3160-3177*

Digital filters

- Super-Resolution of Hyperspectral Images: Use of Optimum Wavelet Filter Coefficients and Sparsity Regularization. *Patel, R.C.*, +, *TGRS April 2015 1728-1736*

Dipole antenna arrays

- Coaxial-Fed Circular Dipole Array Antenna With Ferrite Loading for Thin Directional Borehole Radar Sonde. *Ebihara, S.*, +, *TGRS April 2015 1842-1854*

Direction-of-arrival estimation

- Coaxial-Fed Circular Dipole Array Antenna With Ferrite Loading for Thin Directional Borehole Radar Sonde. *Ebihara, S.*, +, *TGRS April 2015 1842-1854*
- Direction-of-Arrival Estimation for Radar Ice Sounding Surface Clutter Suppression. *Nielsen, U.*, +, *TGRS Sept. 2015 5170-5179*

Discrete transforms

On Detectability of a Ship's Kelvin Wake in Simulated SAR Images of Rough Sea Surface. *Zilman, G.*, +, *TGRS Feb. 2015 609-619*

Discrete wavelet transforms

Calibration of FDTD Simulation of GPR Signal for Asphalt Pavement Compaction Monitoring. *Shangguan, P.*, +, *TGRS March 2015 1538-1548*

MTF-Adjusted Pansharpening Approach Based on Coupled Multiresolution Decompositions. *Kallel, A.*, *TGRS June 2015 3124-3145*

Super-Resolution of Hyperspectral Images: Use of Optimum Wavelet Filter Coefficients and Sparsity Regularization. *Patel, R.C.*, +, *TGRS April 2015 1728-1736*

Distortion

Doppler-Related Distortions in TOPS SAR Images. *Rodriguez-Cassola, M.*, +, *TGRS Jan. 2015 25-35*

Doppler effect

A Wavelet-Packet-Based Radar Waveform for High Resolution in Range and Velocity Detection. *Cao, S.*, +, *TGRS Jan. 2015 229-243*

An Ocean Wind Doppler Model Based on the Generalized Curvature Ocean Surface Scattering Model. *Said, F.*, +, *TGRS Dec. 2015 6632-6638*

Simulation of Correlated Low-Grazing-Angle Sea Clutter Based on Phase Retrieval. *Wang, J.*, +, *TGRS July 2015 3917-3930*

Doppler measurement

Impact of Receiver Saturation on Surface Doppler Velocity Measurements From the EarthCARE Cloud Profiling Radar. *Battaglia, A.*, +, *TGRS March 2015 1205-1212*

Doppler radar

A Wavelet-Packet-Based Radar Waveform for High Resolution in Range and Velocity Detection. *Cao, S.*, +, *TGRS Jan. 2015 229-243*

An Improved M-PRT Technique for Spectral Analysis of Weather Radar Observations. *Tahanout, M.*, +, *TGRS Oct. 2015 5572-5582*

Doppler-Related Distortions in TOPS SAR Images. *Rodriguez-Cassola, M.*, +, *TGRS Jan. 2015 25-35*

Emulating Sentinel-1 Doppler Radial Ice Drift Measurements Using Envisat ASAR Data. *Kramer, T.*, +, *TGRS Dec. 2015 6407-6418*

Extracting Migrant Flight Orientation Profiles Using Polarimetric Radar. *Stepanian, P.M.*, +, *TGRS Dec. 2015 6518-6528*

Generalized Frequency Scaling and Backprojection for LFM-CW SAR Processing. *Zaugg, E.C.*, +, *TGRS July 2015 3600-3614*

Including Antenna Mispointing in a Semi-Analytical Model for Delay/Doppler Altimetry. *Halimi, A.*, +, *TGRS Feb. 2015 598-608*

Radon-Linear Canonical Ambiguity Function-Based Detection and Estimation Method for Marine Target With Micromotion. *Chen, X.*, +, *TGRS April 2015 2225-2240*

Real-Time Noise Estimation and Correction in Dual-Polarization Radar Systems. *Beauchamp, R.M.*, +, *TGRS Nov. 2015 6183-6195*

Robust Clutter Suppression and Moving Target Imaging Approach for Multichannel in Azimuth High-Resolution and Wide-Swath Synthetic Aperture Radar. *Zhang, S.*, +, *TGRS Feb. 2015 687-709*

Using Ice Clouds for Mitigating the EarthCARE Doppler Radar Mispointing. *Battaglia, A.*, +, *TGRS April 2015 2079-2085*

Doppler shift

Ground Moving Target Trajectory Reconstruction in Single-Channel Circular SAR. *Poisson, J.*, +, *TGRS April 2015 1976-1984*

Implementation of the OFDM Chirp Waveform on MIMO SAR Systems. *Wang, J.*, +, *TGRS Sept. 2015 5218-5228*

ISAR Imaging of Nonuniformly Rotating Target Based on a Fast Parameter Estimation Algorithm of Cubic Phase Signal. *Zheng, J.*, +, *TGRS Sept. 2015 4727-4740*

Drilling (geotechnical)

Detection and Quantification of Three-Dimensional Hydraulic Fractures With Horizontal Borehole Resistivity Measurements. *Yang, K.*, +, *TGRS Aug. 2015 4605-4615*

Drops

A Bayesian Method for Upsizing Single Disdrometer Drop Size Counts for Rain Physics Studies and Areal Applications. *Jameson, A.R.*, *TGRS Jan. 2015 335-343*

Dynamic programming

Automatic Construction of 3-D Building Model From Airborne LIDAR Data Through 2-D Snake Algorithm. *Yan, J.*, +, *TGRS Jan. 2015 3-14*

E**Echo**

RES Signatures of Ice Bottom Near to Dome C (Antarctica). *Urbini, S.*, +, *TGRS March 2015 1558-1564*

Waveform Aliasing in Satellite Radar Altimetry. *Smith, W.H.F.*, +, *TGRS April 2015 1671-1682*

Echo suppression

Identification and Suppression of Nonmeteorological Echoes Using Spectral Polarimetric Processing. *Alku, L.*, +, *TGRS July 2015 3628-3638*

Echology

Classification of Alaska Spring Thaw Characteristics Using Satellite L-Band Radar Remote Sensing. *Du, J.*, +, *TGRS Jan. 2015 542-556*

Edge detection

Adaptive Total Variation Regularization Based SAR Image Despeckling and Despeckling Evaluation Index. *Zhao, Y.*, +, *TGRS May 2015 2765-2774*

Contextual and Hierarchical Classification of Satellite Images Based on Cellular Automata. *Espinola, M.*, +, *TGRS Feb. 2015 795-809*

Interval Edge Estimation in SAR Images. *Dias, L.*, +, *TGRS Feb. 2015 851-861*

Spatiotemporal Data Fusion Using Temporal High-Pass Modulation and Edge Primitives. *Malleswara Rao, J.*, +, *TGRS Nov. 2015 5853-5860*

Eigenvalues and eigenfunctions

Characterization and Correction of Multilook Effects on Eigendecomposition Parameters in PolSAR Images. *Yahia, M.*, +, *TGRS Sept. 2015 5237-5246*

El Nino Southern Oscillation

Characteristics of the Trends in the Global Tropopause Estimated From COSMIC Radio Occultation Data. *Gao, P.*, +, *TGRS Dec. 2015 6813-6822*

Electric field integral equations

Three-Dimensional Scattering and Inverse Scattering from Objects With Simultaneous Permittivity and Permeability Contrasts. *Zhang, W.*, +, *TGRS Jan. 2015 429-439*

Electric sensing devices

Marine Electrical Sensing for Detecting Small Inhomogeneities. *Polydorides, N.*, +, *TGRS Feb. 2015 988-1000*

Electrical conductivity

Detection and Quantification of Three-Dimensional Hydraulic Fractures With Horizontal Borehole Resistivity Measurements. *Yang, K.*, +, *TGRS Aug. 2015 4605-4615*

Dielectric Properties of Saline Soils and an Improved Dielectric Model in C-Band. *Wu, Y.*, +, *TGRS Jan. 2015 440-452*

Model-Based Quantitative Cross-Borehole GPR Imaging via Virtual Experiments. *Di Donato, L.*, +, *TGRS Aug. 2015 4178-4185*

Three-Dimensional Scattering and Inverse Scattering from Objects With Simultaneous Permittivity and Permeability Contrasts. *Zhang, W.*, +, *TGRS Jan. 2015 429-439*

Electrical conductivity measurement

Marine Electrical Sensing for Detecting Small Inhomogeneities. *Polydorides, N.*, +, *TGRS Feb. 2015 988-1000*

Electrodes

Marine Electrical Sensing for Detecting Small Inhomogeneities. *Polydorides, N.*, +, *TGRS Feb. 2015 988-1000*

Electromagnetic devices

Temporal Orthogonal Projection Inversion for EMI Sensing of UXO. *Song, L.*, +, *TGRS Feb. 2015 1061-1072*

Electromagnetic induction

Temporal Orthogonal Projection Inversion for EMI Sensing of UXO. *Song, L.*, +, *TGRS Feb. 2015 1061-1072*

Electromagnetic wave polarization

Advanced Microwave Atmospheric Sounder (AMAS) Channel Specifications and T/V Calibration Results on FY-3C Satellite. *Jieying, H.*, +, *TGRS Jan. 2015 481-493*

Improving Target Detection Accuracy Based on Multipolarization MIMO GPR. *Zeng, Z.*, +, *TGRS Jan. 2015 15-24*

Marine Electrical Sensing for Detecting Small Inhomogeneities. *Polydorides, N.*, +, *TGRS Feb. 2015 988-1000*

Optimization of the Degree of Polarization for Enhanced Ship Detection Using Polarimetric RADARSAT-2. *Touzi, R.*, +, *TGRS Oct. 2015 5403-5424*

Optimizing Radiation Patterns of a Cylindrical Polarimetric Phased-Array Radar for Multimissions. *Karimkashi, S.*, +, *TGRS May 2015 2810-2818*

Electromagnetic wave propagation

Multiple Extended Target Tracking for Through-Wall Radars. *Gennarelli, G.*, +, *TGRS Dec. 2015 6482-6494*

Electromagnetic wave scattering

A Multidimensional Extension of the Concept of Coherence in Polarimetric SAR Interferometry. *Alvarez-Perez, J.L.*, *TGRS March 2015 1257-1270*

A Novel Approximate Solution for Electromagnetic Scattering by Dielectric Disks. *Wang, L.*, +, *TGRS May 2015 2948-2955*

An Efficient Multiregion FEM-BIM for Composite Scattering From an Arbitrary Dielectric Target Above Dielectric Rough Sea Surfaces. *Guo, L.*, +, *TGRS July 2015 3885-3896*

Electromagnetic Inverse Scattering of Axially Moving Cylindrical Targets. *Pastorino, M.*, +, *TGRS March 2015 1452-1462*

Electromagnetic Wave Scattering Analysis From 2-D Periodic Rough Surfaces Using Complex Images Technique. *Barzegar-Parizi, S.*, +, *TGRS Feb. 2015 862-868*

Extension of the Spectral Acceleration Method to Lossy Medium and Its Application to Electromagnetic Scattering From Rough Surfaces. *Wang, Y.*, +, *TGRS April 2015 1865-1875*

Including Antenna Mispointing in a Semi-Analytical Model for Delay/Doppler Altimetry. *Halimi, A.*, +, *TGRS Feb. 2015 598-608*

InSAR Image Regularization and DEM Error Correction With Fractal Surface Scattering Model. *Danudirjo, D.*, +, *TGRS March 2015 1427-1439*

Multiple Extended Target Tracking for Through-Wall Radars. *Gennarelli, G.*, +, *TGRS Dec. 2015 6482-6494*

Multiplicative-Regularized FFT Twofold Subspace-Based Optimization Method for Inverse Scattering Problems. *Xu, K.*, +, *TGRS Feb. 2015 841-850*

Optimization of the Degree of Polarization for Enhanced Ship Detection Using Polarimetric RADARSAT-2. *Touzi, R.*, +, *TGRS Oct. 2015 5403-5424*

Parameterization of Centimeter-Scale Sea Ice Surface Roughness Using Terrestrial LiDAR. *Landy, J.C.*, +, *TGRS March 2015 1271-1286*

Phase Inconsistencies and Multiple Scattering in SAR Interferometry. *De Zan, F.*, +, *TGRS Dec. 2015 6608-6616*

PolInSAR Coherence Region Modeling and Inversion: The Best Normal Matrix Approximation Solution. *Cui, Y.*, +, *TGRS Feb. 2015 1048-1060*

Synthesis of Fractal Surfaces for Remote-Sensing Applications. *Riccio, D.*, +, *TGRS July 2015 3803-3814*

Three-Dimensional Scattering and Inverse Scattering from Objects With Simultaneous Permittivity and Permeability Contrasts. *Zhang, W.*, +, *TGRS Jan. 2015 429-439*

Electromagnetism

Radiometric Approach for Estimating Relative Changes in Intraglacier Average Temperature. *Jezeck, K.C.*, +, *TGRS Jan. 2015 134-143*

Emissivity

A Physics-Based Unmixing Method to Estimate Subpixel Temperatures on Mixed Pixels. *Cubero-Castan, M.*, +, *TGRS April 2015 1894-1906*

A Semi-Empirical Model for Computing Land Surface Emissivity in the Microwave Region. *Ringerud, S.*, +, *TGRS April 2015 1935-1946*

Entropy

Characterization and Correction of Multilook Effects on Eigendecomposition Parameters in PolSAR Images. *Yahia, M.*, +, *TGRS Sept. 2015 5237-5246*

Downscaling Satellite-Based Soil Moisture in Heterogeneous Regions Using High-Resolution Remote Sensing Products and Information Theory: A Synthetic Study. *Chakrabarti, S.*, +, *TGRS Jan. 2015 85-101*

Emissivity and Temperature Assessment Using a Maximum Entropy Estimator: Structure and Performance of the MaxEnTES Algorithm. *Barducci, A.*, +, *TGRS Feb. 2015 738-751*

Environmental monitoring (geophysics)

A WTLS-Based Method for Remote Sensing Imagery Registration. *Wu, T.*, +, *TGRS Jan. 2015 102-116*

Mapping Aboveground Biomass in Northern Japanese Forests Using the ALOS PRISM Digital Surface Model. *Motohka, T.*, +, *TGRS April 2015 1683-1691*

Soil Moisture Estimation Under Tropical Forests Using UHF Radar Polarimetry. *Truong-Loi, M.*, +, *TGRS April 2015 1718-1727*

Equalizers

Subaperture Approach Based on Azimuth-Dependent Range Cell Migration Correction and Azimuth Focusing Parameter Equalization for Maneuvering High-Squint-Mode SAR. *Zeng, T.*, +, *TGRS Dec. 2015 6718-6734*

Erosion

On the Feasibility of Characterizing Soil Properties From AVIRIS Data. *Dutta, D.*, +, *TGRS Sept. 2015 5133-5147*

Error analysis

Characterizing the Aerosol and Surface Reflectance Over Australia Using AATSR. *Qin, Y.*, +, *TGRS Nov. 2015 6163-6182*

Correcting Incompatible DN Values and Geometric Errors in Nighttime Lights Time-Series Images. *Zhao, N.*, +, *TGRS April 2015 2039-2049*

On-Orbit Radiometric Calibration of Suomi NPP VIIRS Reflective Solar Bands Through Observations of a Sunlit Solar Diffuser Panel. *Lei, N.*, +, *TGRS Nov. 2015 5983-5990*

Wideband Frequency Domain Method of Soil Dielectric Property Measurements. *Bobrov, P.P.*, +, *TGRS May 2015 2366-2372*

Error compensation

Self-Calibration Adjustment of CBERS-02B Long-Strip Imagery. *Zheng, M.*, +, *TGRS July 2015 3847-3854*

Systematic Error Compensation Based on a Rational Function Model for Ziyuan1-02C. *Jiang, Y.*, +, *TGRS July 2015 3985-3995*

Error correction

Advanced Microwave Atmospheric Sounder (AMAS) Channel Specifications and T/V Calibration Results on FY-3C Satellite. *Jieying, H.*, +, *TGRS Jan. 2015 481-493*

Error statistics

Near-Real-Time Estimation of Water Vapor Column From MSG-SEVIRI Thermal Infrared Bands: Implications for Land Surface Temperature Retrieval. *Julien, Y.*, +, *TGRS Aug. 2015 4231-4237*

Estimation theory

Empirical Waveform Decomposition and Radiometric Calibration of a Terrestrial Full-Waveform Laser Scanner. *Hartzell, P.J.*, +, *TGRS Jan. 2015 162-172*

Fast Hyperspectral Anomaly Detection via High-Order 2-D Crossing Filter. *Yuan, Y.*, +, *TGRS Feb. 2015 620-630*

Geometry-Information-Aided Efficient Radial Velocity Estimation for Moving Target Imaging and Location Based on Radon Transform. *Zhang, X.*, +, *TGRS Feb. 2015 1105-1117*

Global Land Surface Fractional Vegetation Cover Estimation Using General Regression Neural Networks From MODIS Surface Reflectance. *Jia, K.*, +, *TGRS Sept. 2015 4787-4796*

Near-Real-Time Estimation of Water Vapor Column From MSG-SEVIRI Thermal Infrared Bands: Implications for Land Surface Temperature Retrieval. *Julien, Y.*, +, *TGRS Aug. 2015 4231-4237*

On Detectability of a Ship's Kelvin Wake in Simulated SAR Images of Rough Sea Surface. *Zilman, G.*, +, *TGRS Feb. 2015 609-619*

Real-Time Noise Estimation and Correction in Dual-Polarization Radar Systems. *Beauchamp, R.M.*, +, *TGRS Nov. 2015 6183-6195*

Evolutionary computation

Hyperspectral Band Selection by Multitask Sparsity Pursuit. *Yuan, Y.*, +, *TGRS Feb. 2015 631-644*

Expectation-maximization algorithms

A Two-Component K -Lognormal Mixture Model and Its Parameter Estimation Method. *Zhou, X.*, +, *TGRS May 2015 2640-2651*

Multiple-Instance Hidden Markov Model for GPR-Based Landmine Detection. *Manandhar, A.*, +, *TGRS April 2015 1737-1745*

Multiple-Instance Hidden Markov Models With Applications to Landmine Detection. *Yüksel, S.E.*, +, *TGRS Dec. 2015 6766-6775*

F**Face recognition**

Class-Dependent Sparse Representation Classifier for Robust Hyperspectral Image Classification. *Cui, M.*, +, *TGRS May 2015 2683-2695*

Faraday effect

Calibration of SAR Polarimetric Images by Means of a Covariance Matching Approach. *Villa, A.*, +, *TGRS Feb. 2015 674-686*

Correcting Distortion of Polarimetric SAR Data Induced by Ionospheric Scintillation. *Kim, J.S.*, +, *TGRS Dec. 2015 6319-6335*

The Impact of System Effects on Estimates of Faraday Rotation From Synthetic Aperture Radar Measurements. *Quegan, S.*, +, *TGRS Aug. 2015 4284-4298*

The Interaction Between Faraday Rotation and System Effects in Synthetic Aperture Radar Measurements of Backscatter and Biomass. *Quegan, S.*, +, *TGRS Aug. 2015 4299-4312*

Fast Fourier transforms

- A Fast Radial Scanned Near-Field 3-D SAR Imaging System and the Reconstruction Method. *Li, Z., +, TGRS March 2015 1355-1363*
- A Self-Adaptive Wavelet-Based Algorithm for Wave Measurement Using Nautical Radar. *An, J., +, TGRS Jan. 2015 567-577*
- Efficient Algorithm Design for GPR Imaging of Landmines. *Krueger, K.R., +, TGRS July 2015 4010-4021*
- Efficient Near-Field Imaging for Single-Borehole Radar With Widely Separated Transceivers. *Yang, H., +, TGRS Oct. 2015 5327-5337*
- Multiplicative-Regularized FFT Twofold Subspace-Based Optimization Method for Inverse Scattering Problems. *Xu, K., +, TGRS Feb. 2015 841-850*
- Novel Methods to Accelerate CS Radar Imaging by NUFFT. *Sun, S., +, TGRS Jan. 2015 557-566*
- Three-Dimensional Scattering and Inverse Scattering from Objects With Simultaneous Permittivity and Permeability Contrasts. *Zhang, W., +, TGRS Jan. 2015 429-439*

Feature extraction

- A Fast Classification Scheme in Raman Spectroscopy for the Identification of Mineral Mixtures Using a Large Database With Correlated Predictors. *Cochrane, C.J., +, TGRS Aug. 2015 4259-4274*
- A Multiscale and Hierarchical Feature Extraction Method for Terrestrial Laser Scanning Point Cloud Classification. *Wang, Z., +, TGRS May 2015 2409-2425*
- A System for the Automatic Classification of Ice Sheet Subsurface Targets in Radar Sounder Data. *Ilisei, A., +, TGRS June 2015 3260-3277*
- An Approach to Fine Coregistration Between Very High Resolution Multispectral Images Based on Registration Noise Distribution. *Han, Y., +, TGRS Dec. 2015 6650-6662*
- An Edge Preserving Multiresolution Fusion: Use of Contourlet Transform and MRF Prior. *Upla, K.P., +, TGRS June 2015 3210-3220*
- Analysis of Oblique Aerial Images for Land Cover and Point Cloud Classification in an Urban Environment. *Rau, J., +, TGRS March 2015 1304-1319*
- Automatic Optical-to-SAR Image Registration by Iterative Line Extraction and Voronoi Integrated Spectral Point Matching. *Sui, H., +, TGRS Nov. 2015 6058-6072*
- Automatic Orthorectification of High-Resolution Optical Satellite Images Using Vector Roads. *Marsetic, A., +, TGRS Nov. 2015 6035-6047*
- Classification of Remotely Sensed Images Using the GeneSIS Fuzzy Segmentation Algorithm. *Mylonas, S.K., +, TGRS Oct. 2015 5352-5376*
- Correction to "Extracting Man-Made Objects From High Spatial Resolution Remote Sensing Images via Fast Level Set Evolutions" [Feb 15 883-899]. *Li, Z., +, TGRS Oct. 2015 5794*
- Elitist Chemical Reaction Optimization for Contour-Based Target Recognition in Aerial Images. *Duan, H., +, TGRS May 2015 2845-2859*
- Extracting Man-Made Objects From High Spatial Resolution Remote Sensing Images via Fast Level Set Evolutions. *Li, Z., +, TGRS Feb. 2015 883-899*
- Extraction of Vehicle Groups in Airborne Lidar Point Clouds With Two-Level Point Processes. *Borcs, A., +, TGRS March 2015 1475-1489*
- Fast Analysis of C-Scans From Ground Penetrating Radar via 3-D Haar-Like Features With Application to Landmine Detection. *Klesk, P., +, TGRS July 2015 3996-4009*
- Features, Color Spaces, and Boosting: New Insights on Semantic Classification of Remote Sensing Images. *Tokarczyk, P., +, TGRS Jan. 2015 280-295*
- Forest Data Collection Using Terrestrial Image-Based Point Clouds From a Handheld Camera Compared to Terrestrial and Personal Laser Scanning. *Liang, X., +, TGRS Sept. 2015 5117-5132*
- Gabor Feature-Based Collaborative Representation for Hyperspectral Imagery Classification. *Jia, S., +, TGRS Feb. 2015 1118-1129*
- Hierarchical Clustering of Hyperspectral Images Using Rank-Two Nonnegative Matrix Factorization. *Gillis, N., +, TGRS April 2015 2066-2078*
- Hyperspectral Image Classification Based on Three-Dimensional Scattering Wavelet Transform. *Tang, Y.Y., +, TGRS May 2015 2467-2480*
- Intrinsic Image Decomposition for Feature Extraction of Hyperspectral Images. *Kang, X., +, TGRS April 2015 2241-2253*
- Iterative Feature Voting for Pavement Crack Extraction Using Mobile Laser Scanning Data. *Guan, H., +, TGRS March 2015 1527-1537*
- Learning High-level Features for Satellite Image Classification With Limited Labeled Samples. *Yang, W., +, TGRS Aug. 2015 4472-4482*
- LIDAR Strip Adjustment Using Multifeatures Matched With Aerial Images. *Zhang, Y., +, TGRS Feb. 2015 976-987*
- Local Binary Patterns and Extreme Learning Machine for Hyperspectral Imagery Classification. *Li, W., +, TGRS July 2015 3681-3693*

- Marker-Controlled Watershed-Based Segmentation of Multiresolution Remote Sensing Images. *Gaetano, R., +, TGRS June 2015 2987-3004*
- Measuring the Effectiveness of Various Features for Thematic Information Extraction From Very High Resolution Remote Sensing Imagery. *Chen, X., +, TGRS Sept. 2015 4837-4851*
- Moving Target Tracking in Single- and Multichannel SAR. *Henke, D., +, TGRS June 2015 3146-3159*
- Multiclass Coarse Analysis for UAV Imagery. *Moranduzzo, T., +, TGRS Dec. 2015 6394-6406*
- Multiple Feature Learning for Hyperspectral Image Classification. *Li, J., +, TGRS March 2015 1592-1606*
- Novel Two-Dimensional Singular Spectrum Analysis for Effective Feature Extraction and Data Classification in Hyperspectral Imaging. *Zabalza, J., +, TGRS Aug. 2015 4418-4433*
- Object Detection in Optical Remote Sensing Images Based on Weakly Supervised Learning and High-Level Feature Learning. *Han, J., +, TGRS June 2015 3325-3337*
- On Spectral Unmixing Resolution Using Extended Support Vector Machines. *Li, X., +, TGRS Sept. 2015 4985-4996*
- Parallel Branch-Cut Algorithm Based on Simulated Annealing for Large-Scale Phase Unwrapping. *Huang, Q., +, TGRS July 2015 3833-3846*
- Plasmonic Superpixel Sensor for Compressive Spectral Sensing. *Jang, W., +, TGRS June 2015 3471-3480*
- Radon-Linear Canonical Ambiguity Function-Based Detection and Estimation Method for Marine Target With Micromotion. *Chen, X., +, TGRS April 2015 2225-2240*
- Regular Shape Similarity Index: A Novel Index for Accurate Extraction of Regular Objects From Remote Sensing Images. *Sun, Z., +, TGRS July 2015 3737-3748*
- Remote Sensing Image Matching Based on Adaptive Binning SIFT Descriptor. *Sedaghat, A., +, TGRS Oct. 2015 5283-5293*
- Robust Clutter Suppression and Moving Target Imaging Approach for Multichannel in Azimuth High-Resolution and Wide-Swath Synthetic Aperture Radar. *Zhang, S., +, TGRS Feb. 2015 687-709*
- Robust Rooftop Extraction From Visible Band Images Using Higher Order CRF. *Li, E., +, TGRS Aug. 2015 4483-4495*
- Saliency-Guided Unsupervised Feature Learning for Scene Classification. *Zhang, F., +, TGRS April 2015 2175-2184*
- Scene Classification Based on the Multifeature Fusion Probabilistic Topic Model for High Spatial Resolution Remote Sensing Imagery. *Zhong, Y., +, TGRS Nov. 2015 6207-6222*
- Semiautomated Extraction of Street Light Poles From Mobile LiDAR Point-Clouds. *Yu, Y., +, TGRS March 2015 1374-1386*
- Semisupervised Transfer Component Analysis for Domain Adaptation in Remote Sensing Image Classification. *Matasci, G., +, TGRS July 2015 3550-3564*
- Simultaneous Sparse Graph Embedding for Hyperspectral Image Classification. *Xue, Z., +, TGRS Nov. 2015 6114-6133*
- Spatiotemporal Detection and Analysis of Urban Villages in Mega City Regions of China Using High-Resolution Remotely Sensed Imagery. *Huang, X., +, TGRS July 2015 3639-3657*
- Spectral and Spatial Classification of Hyperspectral Images Based on ICA and Reduced Morphological Attribute Profiles. *Falco, N., +, TGRS Nov. 2015 6223-6240*
- Spectral-Spatial Classification for Hyperspectral Data Using Rotation Forests With Local Feature Extraction and Markov Random Fields. *Xia, J., +, TGRS May 2015 2532-2546*
- Tensorial Independent Component Analysis-Based Feature Extraction for Polarimetric SAR Data Classification. *Tao, M., +, TGRS May 2015 2481-2495*
- The Characteristics of the Multipath Scattering and the Application for Geometry Extraction in High-Resolution SAR Images. *Zhang, Y., +, TGRS Aug. 2015 4687-4699*
- Urban Land Use Information Extraction Using the Ultrahigh-Resolution Chinese Airborne SAR Imagery. *Wu, W., +, TGRS Oct. 2015 5583-5599*

Feature selection

- A Fast Classification Scheme in Raman Spectroscopy for the Identification of Mineral Mixtures Using a Large Database With Correlated Predictors. *Cochrane, C.J., +, TGRS Aug. 2015 4259-4274*
- A Novel Feature Selection Approach Based on FODPSO and SVM. *Ghamisi, P., +, TGRS May 2015 2935-2947*
- Automatic Spatial-Spectral Feature Selection for Hyperspectral Image via Discriminative Sparse Multimodal Learning. *Zhang, Q., +, TGRS Jan. 2015 261-279*

- Contributions to Automatic Target Recognition Systems for Underwater Mine Classification. *Fei, T., +, TGRS Jan. 2015 505-518*
- Features, Color Spaces, and Boosting: New Insights on Semantic Classification of Remote Sensing Images. *Tokarczyk, P., +, TGRS Jan. 2015 280-295*
- Hyperspectral Band Selection Based on Rough Set. *Patra, S., +, TGRS Oct. 2015 5495-5503*
- Mutual-Information-Based Semi-Supervised Hyperspectral Band Selection With High Discrimination, High Information, and Low Redundancy. *Feng, J., +, TGRS May 2015 2956-2969*
- Object-Based Unsupervised Classification of VHR Panchromatic Satellite Images by Combining the HDP and IBP on Multiple Scenes. *Shu, Y., +, TGRS Nov. 2015 6148-6162*
- Feedback**
- A Novel Active Learning Method in Relevance Feedback for Content-Based Remote Sensing Image Retrieval. *Demir, B., +, TGRS May 2015 2323-2334*
- Ferrites**
- Coaxial-Fed Circular Dipole Array Antenna With Ferrite Loading for Thin Directional Borehole Radar Sonde. *Ebihara, S., +, TGRS April 2015 1842-1854*
- Field programmable gate arrays**
- Development and Operational Analysis of an All-Fiber Coherent Doppler Lidar System for Wind Sensing and Aerosol Profiling. *Abdelazim, S., +, TGRS Dec. 2015 6495-6506*
- Filtering theory**
- Contributions to Automatic Target Recognition Systems for Underwater Mine Classification. *Fei, T., +, TGRS Jan. 2015 505-518*
- Fast Hyperspectral Anomaly Detection via High-Order 2-D Crossing Filter. *Yuan, Y., +, TGRS Feb. 2015 620-630*
- Pansharpening Based on Semiblind Deconvolution. *Vivone, G., +, TGRS April 2015 1997-2010*
- Temporal Filtering of InSAR Data Using Statistical Parameters From NWP Models. *Gong, W., +, TGRS July 2015 4033-4044*
- Filters**
- Pansharpening With Multiscale Normalized Nonlocal Means Filter: A Two-Step Approach. *Yin, H., +, TGRS Oct. 2015 5734-5745*
- Finite difference time-domain analysis**
- Calibration of FDTD Simulation of GPR Signal for Asphalt Pavement Compaction Monitoring. *Shangguan, P., +, TGRS March 2015 1538-1548*
- Improving Target Detection Accuracy Based on Multipolarization MIMO GPR. *Zeng, Z., +, TGRS Jan. 2015 15-24*
- Time Reversal Imaging of Deeply Buried Targets Under Moderately Rough Surfaces Using Approximate Transmitted Fields. *Moghadasi, S.M., +, TGRS July 2015 3897-3905*
- Finite element analysis**
- An Efficient Multiregion FEM-BIM for Composite Scattering From an Arbitrary Dielectric Target Above Dielectric Rough Sea Surfaces. *Guo, L., +, TGRS July 2015 3885-3896*
- Floods**
- Flooding Water Depth Estimation With High-Resolution SAR. *Iervolino, P., +, TGRS May 2015 2295-2307*
- On the Feasibility of Characterizing Soil Properties From AVIRIS Data. *Dutta, D., +, TGRS Sept. 2015 5133-5147*
- Fluorescence**
- Automated Underwater Object Recognition by Means of Fluorescence LIDAR. *Matteoli, S., +, TGRS Jan. 2015 375-393*
- Measurement and Correction of Atmospheric Effects at Different Altitudes for Remote Sensing of Sun-Induced Fluorescence in Oxygen Absorption Bands. *Daumard, F., +, TGRS Sept. 2015 5180-5196*
- Fluorescence spectroscopy**
- Automated Underwater Object Recognition by Means of Fluorescence LIDAR. *Matteoli, S., +, TGRS Jan. 2015 375-393*
- On the Feasibility of Characterizing Soil Properties From AVIRIS Data. *Dutta, D., +, TGRS Sept. 2015 5133-5147*
- FM radar**
- A Wavelet-Packet-Based Radar Waveform for High Resolution in Range and Velocity Detection. *Cao, S., +, TGRS Jan. 2015 229-243*
- Generalized Frequency Scaling and Backprojection for LFM-CW SAR Processing. *Zaugg, E.C., +, TGRS July 2015 3600-3614*
- Subaperture Approach Based on Azimuth-Dependent Range Cell Migration Correction and Azimuth Focusing Parameter Equalization for Maneuvering High-Squint-Mode SAR. *Zeng, T., +, TGRS Dec. 2015 6718-6734*
- Focal planes**
- Investigation of the Electronic Crosstalk in Terra MODIS Band 28. *Sun, J., +, TGRS Oct. 2015 5722-5733*
- Terra and Aqua MODIS Thermal Emissive Bands On-Orbit Calibration and Performance. *Xiong, X., +, TGRS Oct. 2015 5709-5721*
- Forestry**
- A Semiautomated Probabilistic Framework for Tree-Cover Delineation From 1-m NAIP Imagery Using a High-Performance Computing Architecture. *Basu, S., +, TGRS Oct. 2015 5690-5708*
- An Adaptive Semisupervised Approach to the Detection of User-Defined Recurrent Changes in Image Time Series. *Zanotta, D.C., +, TGRS July 2015 3707-3719*
- Estimation of Forest Biomass From Two-Level Model Inversion of Single-Pass InSAR Data. *Soja, M.J., +, TGRS Sept. 2015 5083-5099*
- Forest Data Collection Using Terrestrial Image-Based Point Clouds From a Handheld Camera Compared to Terrestrial and Personal Laser Scanning. *Liang, X., +, TGRS Sept. 2015 5117-5132*
- Forest Height Estimation by Means of Pol-InSAR Data Inversion: The Role of the Vertical Wavenumber. *Kugler, F., +, TGRS Oct. 2015 5294-5311*
- Mapping Aboveground Biomass in Northern Japanese Forests Using the ALOS PRISM Digital Surface Model. *Motohka, T., +, TGRS April 2015 1683-1691*
- Sensitivity of Pol-InSAR Measurements to Vegetation Parameters. *Oveishgharan, S., +, TGRS Dec. 2015 6561-6572*
- Soil Moisture Estimation Under Tropical Forests Using UHF Radar Polarimetry. *Truong-Loi, M., +, TGRS April 2015 1718-1727*
- The Effect of Boreal Forest Canopy in Satellite Snow Mapping—A Multi-sensor Analysis. *Cohen, J., +, TGRS Dec. 2015 6593-6607*
- Fourier transform spectrometers**
- Simulation of Airborne Radiometric Detection of Wake Vortices. *Daniels, T., +, TGRS Dec. 2015 6336-6343*
- Fourier transforms**
- An Improved M-PRT Technique for Spectral Analysis of Weather Radar Observations. *Tahanout, M., +, TGRS Oct. 2015 5572-5582*
- Detection and Quantification of Three-Dimensional Hydraulic Fractures With Horizontal Borehole Resistivity Measurements. *Yang, K., +, TGRS Aug. 2015 4605-4615*
- ISAR Imaging of Nonuniformly Rotating Target Based on a Fast Parameter Estimation Algorithm of Cubic Phase Signal. *Zheng, J., +, TGRS Sept. 2015 4727-4740*
- Radon-Linear Canonical Ambiguity Function-Based Detection and Estimation Method for Marine Target With Micromotion. *Chen, X., +, TGRS April 2015 2225-2240*
- Retrieval of Higher Order Ocean Spectral Information From Sun glint. *Cureton, G.P., TGRS Jan. 2015 36-50*
- Robust Clutter Suppression and Moving Target Imaging Approach for Multichannel in Azimuth High-Resolution and Wide-Swath Synthetic Aperture Radar. *Zhang, S., +, TGRS Feb. 2015 687-709*
- Fractals**
- InSAR Image Regularization and DEM Error Correction With Fractal Surface Scattering Model. *Danudirdjo, D., +, TGRS March 2015 1427-1439*
- Synthesis of Fractal Surfaces for Remote-Sensing Applications. *Riccio, D., +, TGRS July 2015 3803-3814*
- Fracture**
- Detection and Quantification of Three-Dimensional Hydraulic Fractures With Horizontal Borehole Resistivity Measurements. *Yang, K., +, TGRS Aug. 2015 4605-4615*
- Freezing**
- Characterizing Snowpack and the Freeze-Thaw State of Underlying Soil via Assimilation of Multifrequency Passive/Active Microwave Data: A Case Study (NASA CLPX 2003). *Batani, S.M., +, TGRS Jan. 2015 173-189*
- Classification of Alaska Spring Thaw Characteristics Using Satellite L-Band Radar Remote Sensing. *Du, J., +, TGRS Jan. 2015 542-556*
- Frequency measurement**
- A Subspace Projection Approach for Wall Clutter Mitigation in Through-the-Wall Radar Imaging. *Tivive, F.H.C., +, TGRS April 2015 2108-2122*
- Wall Clutter Mitigation Using Discrete Prolate Spheroidal Sequences for Sparse Reconstruction of Indoor Stationary Scenes. *Ahmad, F., +, TGRS March 2015 1549-1557*
- Frequency-domain analysis**
- Generalized Frequency Scaling and Backprojection for LFM-CW SAR Processing. *Zaugg, E.C., +, TGRS July 2015 3600-3614*
- Processing of Monostatic SAR Data With General Configurations. *Tang, S., +, TGRS Dec. 2015 6529-6546*
- Robust Clutter Suppression and Moving Target Imaging Approach for Multichannel in Azimuth High-Resolution and Wide-Swath Synthetic Aperture Radar. *Zhang, S., +, TGRS Feb. 2015 687-709*

Fuzzy set theory

Classification of Remotely Sensed Images Using the GeneSIS Fuzzy Segmentation Algorithm. *Mylonas, S.K.*, +, *TGRS Oct. 2015 5352-5376*

Fuzzy systems

Adaptive Multiobjective Memetic Fuzzy Clustering Algorithm for Remote Sensing Imagery. *Ma, A.*, +, *TGRS Aug. 2015 4202-4217*

G**Gaussian distribution**

A Bayesian Network-Based Method to Alleviate the Ill-Posed Inverse Problem: A Case Study on Leaf Area Index and Canopy Water Content Retrieval. *Quan, X.*, +, *TGRS Dec. 2015 6507-6517*

A Simplified Formulation for Rough Surface Cross-Polarized Backscattering Under the Second-Order Small-Slope Approximation. *Guerin, C.*, +, *TGRS Nov. 2015 6308-6314*

Learning High-level Features for Satellite Image Classification With Limited Labeled Samples. *Yang, W.*, +, *TGRS Aug. 2015 4472-4482*

Time Reversal Imaging of Deeply Buried Targets Under Moderately Rough Surfaces Using Approximate Transmitted Fields. *Moghadasi, S.M.*, +, *TGRS July 2015 3897-3905*

Urban Land Use Information Extraction Using the Ultrahigh-Resolution Chinese Airborne SAR Imagery. *Wu, W.*, +, *TGRS Oct. 2015 5583-5599*

Gaussian noise

Band-Specific Shearlet-Based Hyperspectral Image Noise Reduction. *Karami, A.*, +, *TGRS Sept. 2015 5054-5066*

Gaussian processes

Active Learning With Gaussian Process Classifier for Hyperspectral Image Classification. *Sun, S.*, +, *TGRS April 2015 1746-1760*

Correction to "Extracting Man-Made Objects From High Spatial Resolution Remote Sensing Images via Fast Level Set Evolutions" [Feb 15 883-899]. *Li, Z.*, +, *TGRS Oct. 2015 5794*

Extracting Man-Made Objects From High Spatial Resolution Remote Sensing Images via Fast Level Set Evolutions. *Li, Z.*, +, *TGRS Feb. 2015 883-899*

Extraction of Structural and Dynamic Properties of Forests From Polarimetric-Interferometric SAR Data Affected by Temporal Decorrelation. *Lavalle, M.*, +, *TGRS Sept. 2015 4752-4767*

Gaussian Processes for Estimating Wavelength Position of the Ferric Iron Crystal Field Feature at ~900 nm From Hyperspectral Imagery Acquired in the Short-Wave Infrared (1002–1355 nm). *Murphy, R.J.*, +, *TGRS April 2015 1907-1920*

Hyperspectral Image Classification Based on Three-Dimensional Scattering Wavelet Transform. *Tang, Y.Y.*, +, *TGRS May 2015 2467-2480*

Minimum-Entropy-Based Adaptive Focusing Algorithm for Image Reconstruction of Terahertz Single-Frequency Holography With Improved Depth of Focus. *Sun, Z.*, +, *TGRS Jan. 2015 519-526*

Novel Methods to Accelerate CS Radar Imaging by NUFFT. *Sun, S.*, +, *TGRS Jan. 2015 557-566*

Pansharpening Based on Semiblind Deconvolution. *Vivone, G.*, +, *TGRS April 2015 1997-2010*

SAR Image Change Detection Based on Iterative Label-Information Composite Kernel Supervised by Anisotropic Texture. *Jia, L.*, +, *TGRS July 2015 3960-3973*

Genetic algorithms

Classification of Remotely Sensed Images Using the GeneSIS Fuzzy Segmentation Algorithm. *Mylonas, S.K.*, +, *TGRS Oct. 2015 5352-5376*

Elitist Chemical Reaction Optimization for Contour-Based Target Recognition in Aerial Images. *Duan, H.*, +, *TGRS May 2015 2845-2859*

Empirical Forecasting of HF-Radar Velocity Using Genetic Algorithms. *Orfila, A.*, +, *TGRS May 2015 2875-2886*

Geochemistry

Classification of Alaska Spring Thaw Characteristics Using Satellite L-Band Radar Remote Sensing. *Du, J.*, +, *TGRS Jan. 2015 542-556*

On the Feasibility of Characterizing Soil Properties From AVIRIS Data. *Dutta, D.*, +, *TGRS Sept. 2015 5133-5147*

Geodesy

Geodetic Network Design for InSAR. *Mahapatra, P.S.*, +, *TGRS July 2015 3669-3680*

Geographic information systems

Functions of Multiple Instances for Learning Target Signatures. *Jiao, C.*, +, *TGRS Aug. 2015 4670-4686*

Geology

RES Signatures of Ice Bottom Near to Dome C (Antarctica). *Urbini, S.*, +, *TGRS March 2015 1558-1564*

Geometrical optics

The GO4 Model in Near-Nadir Microwave Scattering From the Sea Surface. *Boisot, O.*, +, *TGRS Nov. 2015 5889-5900*

Geometry

Analysis of Oblique Aerial Images for Land Cover and Point Cloud Classification in an Urban Environment. *Rau, J.*, +, *TGRS March 2015 1304-1319*

Capabilities of BIOMASS Tomography for Investigating Tropical Forests. *Ho Tong Minh, D.*, +, *TGRS Feb. 2015 965-975*

Correcting Incompatible DN Values and Geometric Errors in Nighttime Lights Time-Series Images. *Zhao, N.*, +, *TGRS April 2015 2039-2049*

Geometry-Information-Aided Efficient Radial Velocity Estimation for Moving Target Imaging and Location Based on Radon Transform. *Zhang, X.*, +, *TGRS Feb. 2015 1105-1117*

Geomorphology

Geodetic Network Design for InSAR. *Mahapatra, P.S.*, +, *TGRS July 2015 3669-3680*

InSAR Assessment of Surface Deformations in Urban Coastal Terrains Associated With Groundwater Dynamics. *Normand, J.C.L.*, +, *TGRS Dec. 2015 6356-6371*

Normalization of TanDEM-X DSM Data in Urban Environments With Morphological Filters. *Geiss, C.*, +, *TGRS Aug. 2015 4348-4362*

Geophysical equipment

In Situ Calibration of Light Sensors for Long-Term Monitoring of Vegetation. *Jin, H.*, +, *TGRS June 2015 3405-3416*

A New Method for Suomi-NPP VIIRS Day–Night Band On-Orbit Radiometric Calibration. *Lee, S.*, +, *TGRS Jan. 2015 324-334*

MAGI: A New High-Performance Airborne Thermal-Infrared Imaging Spectrometer for Earth Science Applications. *Hall, J.L.*, +, *TGRS Oct. 2015 5447-5457*

Modeling the Detector Radiometric Gains of the Suomi NPP VIIRS Reflective Solar Bands. *Lei, N.*, +, *TGRS March 2015 1565-1573*

Precise Three-Dimensional Stereo Localization of Corner Reflectors and Persistent Scatterers With TerraSAR-X. *Gisinger, C.*, +, *TGRS April 2015 1782-1802*

Reliable Technology of Centimeter GPS/GLONASS Surveying in Forest Environments. *Bakula, M.*, +, *TGRS Feb. 2015 1029-1038*

The Radiometric Stability and Scaling of Collection 6 Terra- and Aqua-MODIS VIS, NIR, and SWIR Spectral Bands. *Doelling, D.R.*, +, *TGRS Aug. 2015 4520-4535*

Uncertainty Evaluation of an In-Flight Absolute Radiometric Calibration Using a Statistical Monte Carlo Method. *Chen, W.*, +, *TGRS May 2015 2925-2934*

Update of VIIRS On-Orbit Spatial Parameters Characterized With the Moon. *Wang, Z.*, +, *TGRS Oct. 2015 5486-5494*

Geophysical fluid dynamics

Simulation of Airborne Radiometric Detection of Wake Vortices. *Daniels, T.*, +, *TGRS Dec. 2015 6336-6343*

Geophysical image processing

A Bistatic SAR Image Intensity Model for the Composite Ship–Ocean Scene. *Zhao, Y.*, +, *TGRS Aug. 2015 4250-4258*

A Convex Formulation for Hyperspectral Image Superresolution via Subspace-Based Regularization. *Simoës, M.*, +, *TGRS June 2015 3373-3388*

A Fast Radial Scanned Near-Field 3-D SAR Imaging System and the Reconstruction Method. *Li, Z.*, +, *TGRS March 2015 1355-1363*

A High-Order Imaging Algorithm for High-Resolution Spaceborne SAR Based on a Modified Equivalent Squint Range Model. *Wang, P.*, +, *TGRS March 2015 1225-1235*

A Multivariate Empirical Mode Decomposition-Based Approach to Pansharpening. *Abdullah, S.M.U.*, +, *TGRS July 2015 3974-3984*

A New Approach to Ocean Wave Parameter Estimates From C-Band ScanSAR Images. *Romeiser, R.*, +, *TGRS March 2015 1320-1345*

A New Fast Algorithm for Linearly Unmixing Hyperspectral Images. *Guerra, R.*, +, *TGRS Dec. 2015 6752-6765*

A New Framework for SAR Multitemporal Data RGB Representation: Rationale and Products. *Amitrano, D.*, +, *TGRS Jan. 2015 117-133*

A Novel Active Learning Method in Relevance Feedback for Content-Based Remote Sensing Image Retrieval. *Demir, B.*, +, *TGRS May 2015 2323-2334*

A Novel Feature Selection Approach Based on FODPSO and SVM. *Ghamisi, P.*, +, *TGRS May 2015 2935-2947*

- A Novel Graph-Matching-Based Approach for Domain Adaptation in Classification of Remote Sensing Image Pair. *Banerjee, B.*, +, *TGRS July 2015 4045-4062*
- A Novel Negative Abundance-Oriented Hyperspectral Unmixing Algorithm. *Marrero, R.*, +, *TGRS July 2015 3772-3790*
- A Radon-Transform-Based Image Noise Filter—With Applications to Multibeam Bathymetry. *Landmark, K.*, +, *TGRS Nov. 2015 6252-6273*
- A Self-Adaptive Wavelet-Based Algorithm for Wave Measurement Using Nautical Radar. *An, J.*, +, *TGRS Jan. 2015 567-577*
- A Semiautomated Probabilistic Framework for Tree-Cover Delineation From 1-m NAIP Imagery Using a High-Performance Computing Architecture. *Basu, S.*, +, *TGRS Oct. 2015 5690-5708*
- A Survey on Spectral–Spatial Classification Techniques Based on Attribute Profiles. *Ghamisi, P.*, +, *TGRS May 2015 2335-2353*
- A System for the Automatic Classification of Ice Sheet Subsurface Targets in Radar Sounder Data. *Ilisei, A.*, +, *TGRS June 2015 3260-3277*
- A Technique for Simultaneous Visualization and Segmentation of Hyperspectral Data. *Meka, A.*, +, *TGRS April 2015 1707-1717*
- A Theory of Recursive Orthogonal Subspace Projection for Hyperspectral Imaging. *Song, M.*, +, *TGRS June 2015 3055-3072*
- A WTLS-Based Method for Remote Sensing Imagery Registration. *Wu, T.*, +, *TGRS Jan. 2015 102-116*
- Active Learning With Gaussian Process Classifier for Hyperspectral Image Classification. *Sun, S.*, +, *TGRS April 2015 1746-1760*
- Adaptive Total Variation Regularization Based SAR Image Despeckling and Despeckling Evaluation Index. *Zhao, Y.*, +, *TGRS May 2015 2765-2774*
- An Abundance Characteristic-Based Independent Component Analysis for Hyperspectral Unmixing. *Wang, N.*, +, *TGRS Jan. 2015 416-428*
- An Adaptive Semisupervised Approach to the Detection of User-Defined Recurrent Changes in Image Time Series. *Zanotta, D.C.*, +, *TGRS July 2015 3707-3719*
- An Adaptive Subpixel Mapping Method Based on MAP Model and Class Determination Strategy for Hyperspectral Remote Sensing Imagery. *Zhong, Y.*, +, *TGRS March 2015 1411-1426*
- An Approach to Fine Coregistration Between Very High Resolution Multispectral Images Based on Registration Noise Distribution. *Han, Y.*, +, *TGRS Dec. 2015 6650-6662*
- An Edge Preserving Multiresolution Fusion: Use of Contourlet Transform and MRF Prior. *Upla, K.P.*, +, *TGRS June 2015 3210-3220*
- An Imaging Compensation Algorithm for Correcting the Impact of Tropospheric Delay on Spaceborne High-Resolution SAR. *Yu, Z.*, +, *TGRS Sept. 2015 4825-4836*
- Analysis of Interactions Among Two Tropical Depressions and Typhoons Tembin and Bolaven (2012) in Pacific Ocean by Using Satellite Cloud Images. *Liu, J.*, +, *TGRS March 2015 1394-1402*
- Analysis of Oblique Aerial Images for Land Cover and Point Cloud Classification in an Urban Environment. *Rau, J.*, +, *TGRS March 2015 1304-1319*
- Assessment of Multiple Scattering in the Reflectance of Semiarid Shrublands. *Wang, J.*, +, *TGRS Sept. 2015 4910-4921*
- Atmospheric Effects Removal for the Infrared Image Sequences. *Ozsarac, S.*, +, *TGRS Sept. 2015 4899-4909*
- Automated Generation of a Digital Elevation Model Over Steep Terrain in Antarctica From High-Resolution Satellite Imagery. *Lee, C.*, +, *TGRS March 2015 1186-1194*
- Automatic Estimation of Oil Seep Locations in Synthetic Aperture Radar Images. *Suresh, G.*, +, *TGRS Aug. 2015 4218-4230*
- Automatic Optical-to-SAR Image Registration by Iterative Line Extraction and Voronoi Integrated Spectral Point Matching. *Sui, H.*, +, *TGRS Nov. 2015 6058-6072*
- Automatic Orthorectification of High-Resolution Optical Satellite Images Using Vector Roads. *Marsevic, A.*, +, *TGRS Nov. 2015 6035-6047*
- Automatic Spatial–Spectral Feature Selection for Hyperspectral Image via Discriminative Sparse Multimodal Learning. *Zhang, Q.*, +, *TGRS Jan. 2015 261-279*
- Band-Specific Shearlet-Based Hyperspectral Image Noise Reduction. *Karami, A.*, +, *TGRS Sept. 2015 5054-5066*
- Block Adjustment for Satellite Imagery Based on the Strip Constraint. *Zhang, G.*, +, *TGRS Feb. 2015 933-941*
- Change-Detection Map Learning Using Matching Pursuit. *Li, Y.*, +, *TGRS Aug. 2015 4712-4723*
- Characterization and Correction of Multilook Effects on Eigendecomposition Parameters in PolSAR Images. *Yahia, M.*, +, *TGRS Sept. 2015 5237-5246*
- Characterization of Facade Regularities in High-Resolution SAR Images. *Auer, S.*, +, *TGRS May 2015 2727-2737*
- Characterizing the Aerosol and Surface Reflectance Over Australia Using AATSR. *Qin, Y.*, +, *TGRS Nov. 2015 6163-6182*
- Class-Dependent Sparse Representation Classifier for Robust Hyperspectral Image Classification. *Cui, M.*, +, *TGRS May 2015 2683-2695*
- Classification of Hyperspectral Images by Exploiting Spectral–Spatial Information of Superpixel via Multiple Kernels. *Fang, L.*, +, *TGRS Dec. 2015 6663-6674*
- Classification of Remotely Sensed Images Using the GeneSIS Fuzzy Segmentation Algorithm. *Mylonas, S.K.*, +, *TGRS Oct. 2015 5352-5376*
- Classifying Compound Structures in Satellite Images: A Compressed Representation for Fast Queries. *Gueguen, L.*, *TGRS April 2015 1803-1818*
- Collaborative Active and Semisupervised Learning for Hyperspectral Remote Sensing Image Classification. *Wan, L.*, +, *TGRS May 2015 2384-2396*
- Collaborative Representation for Hyperspectral Anomaly Detection. *Li, W.*, +, *TGRS March 2015 1463-1474*
- Combination of H-Alpha Decomposition and Migration for Enhancing Subsurface Target Classification of GPR. *Feng, X.*, +, *TGRS Sept. 2015 4852-4861*
- Complementarity of Discriminative Classifiers and Spectral Unmixing Techniques for the Interpretation of Hyperspectral Images. *Li, J.*, +, *TGRS May 2015 2899-2912*
- Compressed-Domain Ship Detection on Spaceborne Optical Image Using Deep Neural Network and Extreme Learning Machine. *Tang, J.*, +, *TGRS March 2015 1174-1185*
- Conditional Random Fields for Multitemporal and Multiscale Classification of Optical Satellite Imagery. *Hoberg, T.*, +, *TGRS Feb. 2015 659-673*
- Constrained Least Squares Algorithms for Nonlinear Unmixing of Hyperspectral Imagery. *Pu, H.*, +, *TGRS March 2015 1287-1303*
- Contextual and Hierarchical Classification of Satellite Images Based on Cellular Automata. *Espinola, M.*, +, *TGRS Feb. 2015 795-809*
- Contributions to Automatic Target Recognition Systems for Underwater Mine Classification. *Fei, T.*, +, *TGRS Jan. 2015 505-518*
- Correcting Incompatible DN Values and Geometric Errors in Nighttime Lights Time-Series Images. *Zhao, N.*, +, *TGRS April 2015 2039-2049*
- Detail-Preserving Smoothing Classifier Based on Conditional Random Fields for High Spatial Resolution Remote Sensing Imagery. *Zhao, J.*, +, *TGRS May 2015 2440-2452*
- Dimension Reduction Using Spatial and Spectral Regularized Local Discriminant Embedding for Hyperspectral Image Classification. *Zhou, Y.*, +, *TGRS Feb. 2015 1082-1095*
- Doppler-Related Distortions in TOPS SAR Images. *Rodriguez-Cassola, M.*, +, *TGRS Jan. 2015 25-35*
- Effect of the Polarization Leakage on the SMOS Image Reconstruction Algorithm: Validation Using Ocean Model and *In Situ* Soil Moisture Data. *Khazaal, A.*, +, *TGRS Sept. 2015 4961-4971*
- Efficient Deconvolution of Ground-Penetrating Radar Data. *Schmelzbach, C.*, +, *TGRS Sept. 2015 5209-5217*
- Efficient Superpixel-Level Multitask Joint Sparse Representation for Hyperspectral Image Classification. *Li, J.*, +, *TGRS Oct. 2015 5338-5351*
- Elitist Chemical Reaction Optimization for Contour-Based Target Recognition in Aerial Images. *Duan, H.*, +, *TGRS May 2015 2845-2859*
- Emulating Sentinel-1 Doppler Radial Ice Drift Measurements Using Envisat ASAR Data. *Kramer, T.*, +, *TGRS Dec. 2015 6407-6418*
- Extended Random Walker-Based Classification of Hyperspectral Images. *Kang, X.*, +, *TGRS Jan. 2015 144-153*
- Extension of the Linear Chromodynamics Model for Spectral Change Detection in the Presence of Residual Spatial Misregistration. *Vongsy, K.*, +, *TGRS June 2015 3005-3021*
- Extracting Man-Made Objects From High Spatial Resolution Remote Sensing Images via Fast Level Set Evolutions. *Li, Z.*, +, *TGRS Feb. 2015 883-899*
- Extraction of Vehicle Groups in Airborne Lidar Point Clouds With Two-Level Point Processes. *Borcs, A.*, +, *TGRS March 2015 1475-1489*
- Fast Hyperspectral Anomaly Detection via High-Order 2-D Crossing Filter. *Yuan, Y.*, +, *TGRS Feb. 2015 620-630*
- Fast Statistically Homogeneous Pixel Selection for Covariance Matrix Estimation for Multitemporal InSAR. *Jiang, M.*, +, *TGRS March 2015 1213-1224*
- Fast Subpixel Mapping Algorithms for Subpixel Resolution Change Detection. *Wang, Q.*, +, *TGRS April 2015 1692-1706*
- Fast Unsupervised Seafloor Characterization in Sonar Imagery Using Lacunarity. *Williams, D.P.*, *TGRS Nov. 2015 6022-6034*

- Features, Color Spaces, and Boosting: New Insights on Semantic Classification of Remote Sensing Images. *Tokarczyk, P.*, +, *TGRS Jan. 2015 280-295*
- Forest Data Collection Using Terrestrial Image-Based Point Clouds From a Handheld Camera Compared to Terrestrial and Personal Laser Scanning. *Liang, X.*, +, *TGRS Sept. 2015 5117-5132*
- Full-Scale Assessment of Pansharpening Through Polynomial Fitting of Multiscale Measurements. *Carla, R.*, +, *TGRS Dec. 2015 6344-6355*
- Futuristic Greedy Approach to Sparse Unmixing of Hyperspectral Data. *Akhtar, N.*, +, *TGRS April 2015 2157-2174*
- Gabor Feature-Based Collaborative Representation for Hyperspectral Imagery Classification. *Jia, S.*, +, *TGRS Feb. 2015 1118-1129*
- Graph-Based Supervised Automatic Target Detection. *Mishne, G.*, +, *TGRS May 2015 2738-2754*
- Hierarchical Conditional Random Fields Model for Semisupervised SAR Image Segmentation. *Zhang, P.*, +, *TGRS Sept. 2015 4933-4951*
- Hierarchical Unsupervised Change Detection in Multitemporal Hyperspectral Images. *Liu, S.*, +, *TGRS Jan. 2015 244-260*
- High-Resolution Maps of Bathymetry and Benthic Habitats in Shallow-Water Environments Using Multispectral Remote Sensing Imagery. *Eugenio, F.*, +, *TGRS July 2015 3539-3549*
- Hyperspectral Band Selection Based on Rough Set. *Patra, S.*, +, *TGRS Oct. 2015 5495-5503*
- Hyperspectral Band Selection by Multitask Sparsity Pursuit. *Yuan, Y.*, +, *TGRS Feb. 2015 631-644*
- Hyperspectral Image Classification Based on Three-Dimensional Scattering Wavelet Transform. *Tang, Y.Y.*, +, *TGRS May 2015 2467-2480*
- Hyperspectral Image Denoising via Sparse Representation and Low-Rank Constraint. *Zhao, Y.*, +, *TGRS Jan. 2015 296-308*
- Identifiability of the Simplex Volume Minimization Criterion for Blind Hyperspectral Unmixing: The No-Pure-Pixel Case. *Lin, C.*, +, *TGRS Oct. 2015 5530-5546*
- Image Processing for Identification of Sea-Ice Floes and the Floe Size Distributions. *Zhang, Q.*, +, *TGRS May 2015 2913-2924*
- Imaging of Oil-Well Perforations Using UWB Synthetic Aperture Radar. *Oloumi, D.*, +, *TGRS Aug. 2015 4510-4520*
- Improved EMCF-SBAS Processing Chain Based on Advanced Techniques for the Noise-Filtering and Selection of Small Baseline Multi-Look DInSAR Interferograms. *Pepe, A.*, +, *TGRS Aug. 2015 4394-4417*
- Improving the Spatial Resolution of Landsat TM/ETM+ Through Fusion With SPOT5 Images via Learning-Based Super-Resolution. *Song, H.*, +, *TGRS March 2015 1195-1204*
- Indicator Cokriging-Based Subpixel Mapping Without Prior Spatial Structure Information. *Wang, Q.*, +, *TGRS Jan. 2015 309-323*
- InSAR Image Regularization and DEM Error Correction With Fractal Surface Scattering Model. *Danudirdjo, D.*, +, *TGRS March 2015 1427-1439*
- Integration of Hyperspectral Imagery and Sparse Sonar Data for Shallow Water Bathymetry Mapping. *Cheng, L.*, +, *TGRS June 2015 3235-3249*
- Intensity Correction of Terrestrial Laser Scanning Data by Estimating Laser Transmission Function. *Fang, W.*, +, *TGRS Feb. 2015 942-951*
- Iterative Hyperspectral Image Classification Using Spectral-Spatial Relational Features. *Guccione, P.*, +, *TGRS July 2015 3615-3627*
- Learning Interpolation via Regional Map for Pan-Sharpener. *Shi, C.*, +, *TGRS June 2015 3417-3431*
- Local Binary Patterns and Extreme Learning Machine for Hyperspectral Imagery Classification. *Li, W.*, +, *TGRS July 2015 3681-3693*
- Local-Manifold-Learning-Based Graph Construction for Semisupervised Hyperspectral Image Classification. *Ma, L.*, +, *TGRS May 2015 2832-2844*
- Low-Rank Subspace Representation for Estimating the Number of Signal Subspaces in Hyperspectral Imagery. *Sumarsono, A.*, +, *TGRS Nov. 2015 6286-6292*
- Marker-Controlled Watershed-Based Segmentation of Multiresolution Remote Sensing Images. *Gaetano, R.*, +, *TGRS June 2015 2987-3004*
- Measuring the Effectiveness of Various Features for Thematic Information Extraction From Very High Resolution Remote Sensing Imagery. *Chen, X.*, +, *TGRS Sept. 2015 4837-4851*
- Missing Data and Regression Models for Spatial Images. *Zhang, J.*, +, *TGRS March 2015 1574-1582*
- Model-Based Fusion of Multi- and Hyperspectral Images Using PCA and Wavelets. *Palsson, F.*, +, *TGRS May 2015 2652-2663*
- Model-Based Quantitative Cross-Borehole GPR Imaging via Virtual Experiments. *Di Donato, L.*, +, *TGRS Aug. 2015 4178-4185*
- Moving Target Tracking in Single- and Multichannel SAR. *Henke, D.*, +, *TGRS June 2015 3146-3159*
- MTF-Adjusted Pansharpening Approach Based on Coupled Multiresolution Decompositions. *Kallel, A.*, *TGRS June 2015 3124-3145*
- MTSAT-1R Visible Imager Point Spread Function Correction, Part II: Theory. *Khlopenkov, K.V.*, +, *TGRS March 2015 1504-1512*
- Multiangle BSAR Imaging Based on BeiDou-2 Navigation Satellite System: Experiments and Preliminary Results. *Zeng, T.*, +, *TGRS Oct. 2015 5760-5773*
- Multiclass Coarse Analysis for UAV Imagery. *Moranduzzo, T.*, +, *TGRS Dec. 2015 6394-6406*
- Multiple Feature Learning for Hyperspectral Image Classification. *Li, J.*, +, *TGRS March 2015 1592-1606*
- Multitask Sparse Nonnegative Matrix Factorization for Joint Spectral-Spatial Hyperspectral Imagery Denoising. *Ye, M.*, +, *TGRS May 2015 2621-2639*
- Mutual-Information-Based Semi-Supervised Hyperspectral Band Selection With High Discrimination, High Information, and Low Redundancy. *Feng, J.*, +, *TGRS May 2015 2956-2969*
- NL-SAR: A Unified Nonlocal Framework for Resolution-Preserving (Pol)InSAR Denoising. *Deledalle, C.*, +, *TGRS April 2015 2021-2038*
- Nonparametric Image Registration of Airborne LiDAR, Hyperspectral and Photographic Imagery of Wooded Landscapes. *Lee, J.*, +, *TGRS Nov. 2015 6073-6084*
- Normalization of TanDEM-X DSM Data in Urban Environments With Morphological Filters. *Geiss, C.*, +, *TGRS Aug. 2015 4348-4362*
- Object Detection in Optical Remote Sensing Images Based on Weakly Supervised Learning and High-Level Feature Learning. *Han, J.*, +, *TGRS June 2015 3325-3337*
- Object-Based Unsupervised Classification of VHR Panchromatic Satellite Images by Combining the HDP and IBP on Multiple Scenes. *Shu, Y.*, +, *TGRS Nov. 2015 6148-6162*
- On Spectral Unmixing Resolution Using Extended Support Vector Machines. *Li, X.*, +, *TGRS Sept. 2015 4985-4996*
- Paddy-Rice Monitoring Using TanDEM-X. *Rossi, C.*, +, *TGRS Feb. 2015 900-910*
- Pansharpening Based on Semiblind Deconvolution. *Vivone, G.*, +, *TGRS April 2015 1997-2010*
- Pansharpening of Multispectral Images Based on Nonlocal Parameter Optimization. *Garzelli, A.*, *TGRS April 2015 2096-2107*
- Parallel Branch-Cut Algorithm Based on Simulated Annealing for Large-Scale Phase Unwrapping. *Huang, Q.*, +, *TGRS July 2015 3833-3846*
- Pattern-Based Assessment of Land Cover Change on Continental Scale With Application to NLCD 2001-2006. *Netzel, P.*, +, *TGRS April 2015 1773-1781*
- Phase Offset Calculation for Airborne InSAR DEM Generation Without Corner Reflectors. *Perna, S.*, +, *TGRS May 2015 2713-2726*
- Plasmonic Superpixel Sensor for Compressive Spectral Sensing. *Jang, W.*, +, *TGRS June 2015 3471-3480*
- Progressive Band Processing of Constrained Energy Minimization for Subpixel Detection. *Chang, C.*, +, *TGRS March 2015 1626-1637*
- Pyramid of Spatial Relations for Scene-Level Land Use Classification. *Chen, S.*, +, *TGRS April 2015 1947-1957*
- Random Subspace Ensembles for Hyperspectral Image Classification With Extended Morphological Attribute Profiles. *Xia, J.*, +, *TGRS Sept. 2015 4768-4786*
- Reduced Image Aliasing With Microwave Radiometers and Weather Radar Through Windowed Spatial Averaging. *McLinden, M.L.*, +, *TGRS Dec. 2015 6639-6649*
- Region-Kernel-Based Support Vector Machines for Hyperspectral Image Classification. *Peng, J.*, +, *TGRS Sept. 2015 4810-4824*
- Regular Shape Similarity Index: A Novel Index for Accurate Extraction of Regular Objects From Remote Sensing Images. *Sun, Z.*, +, *TGRS July 2015 3737-3748*
- Remote Sensing Image Matching Based on Adaptive Binning SIFT Descriptor. *Sedaghat, A.*, +, *TGRS Oct. 2015 5283-5293*
- Representation and Spatially Adaptive Segmentation for PolSAR Images Based on Wedgelet Analysis. *Liu, B.*, +, *TGRS Sept. 2015 4797-4809*
- Robust Feature Matching for Remote Sensing Image Registration via Locally Linear Transforming. *Ma, J.*, +, *TGRS Dec. 2015 6469-6481*
- Robust Hyperspectral Image Target Detection Using an Inequality Constraint. *Yang, S.*, +, *TGRS June 2015 3389-3404*
- Robust Reconstruction of Building Facades for Large Areas Using Spaceborne TomoSAR Point Clouds. *Shahzad, M.*, +, *TGRS Feb. 2015 752-769*
- Robust Rooftop Extraction From Visible Band Images Using Higher Order CRF. *Li, E.*, +, *TGRS Aug. 2015 4483-4495*

- Rotational Pixel Swapping Method for Detection of Circular Features in Binary Images. *Yamamoto, S.*, +, *TGRS Feb. 2015 710-723*
- Saliency-Guided Unsupervised Feature Learning for Scene Classification. *Zhang, F.*, +, *TGRS April 2015 2175-2184*
- Scene Classification Based on the Multifeature Fusion Probabilistic Topic Model for High Spatial Resolution Remote Sensing Imagery. *Zhong, Y.*, +, *TGRS Nov. 2015 6207-6222*
- Semiautomated Extraction of Street Light Poles From Mobile LiDAR Point-Clouds. *Yu, Y.*, +, *TGRS March 2015 1374-1386*
- Semiparametric Statistical Stripmap Synthetic Aperture Autofocusing. *Marston, T.M.*, +, *TGRS April 2015 2086-2095*
- Semisupervised Hyperspectral Classification Using Task-Driven Dictionary Learning With Laplacian Regularization. *Wang, Z.*, +, *TGRS March 2015 1161-1173*
- Semisupervised Transfer Component Analysis for Domain Adaptation in Remote Sensing Image Classification. *Matasci, G.*, +, *TGRS July 2015 3550-3564*
- Separation of a Cirrus Layer and Broken Cumulus Clouds in Multispectral Images. *Yanovsky, I.*, +, *TGRS May 2015 2275-2285*
- Sequential Spectral Change Vector Analysis for Iteratively Discovering and Detecting Multiple Changes in Hyperspectral Images. *Liu, S.*, +, *TGRS Aug. 2015 4363-4378*
- Sparse Regularization of Interferometric Phase and Amplitude for InSAR Image Formation Based on Bayesian Representation. *Xu, G.*, +, *TGRS April 2015 2123-2136*
- Sparse Unmixing of Hyperspectral Data Using Spectral *A Priori* Information. *Tang, W.*, +, *TGRS Feb. 2015 770-783*
- Spatial-Aware Dictionary Learning for Hyperspectral Image Classification. *Soltani-Farani, A.*, +, *TGRS Jan. 2015 527-541*
- Spatiotemporal Data Fusion Using Temporal High-Pass Modulation and Edge Primitives. *Malleswara Rao, J.*, +, *TGRS Nov. 2015 5853-5860*
- Spatiotemporal Detection and Analysis of Urban Villages in Mega City Regions of China Using High-Resolution Remotely Sensed Imagery. *Huang, X.*, +, *TGRS July 2015 3639-3657*
- Spectral and Spatial Classification of Hyperspectral Images Based on ICA and Reduced Morphological Attribute Profiles. *Falco, N.*, +, *TGRS Nov. 2015 6223-6240*
- Spectral Image Unmixing From Optimal Coded-Aperture Compressive Measurements. *Ramirez, A.*, +, *TGRS Jan. 2015 405-415*
- Spectral-Spatial Classification for Hyperspectral Data Using Rotation Forests With Local Feature Extraction and Markov Random Fields. *Xia, J.*, +, *TGRS May 2015 2532-2546*
- Spectral-Spatial Classification of Hyperspectral Data via Morphological Component Analysis-Based Image Separation. *Xue, Z.*, +, *TGRS Jan. 2015 70-84*
- Spectral-Spatial Classification of Hyperspectral Images via Spatial Translation-Invariant Wavelet-Based Sparse Representation. *He, L.*, +, *TGRS May 2015 2696-2712*
- Spectral-Spatial Classification of Hyperspectral Images With a Superpixel-Based Discriminative Sparse Model. *Fang, L.*, +, *TGRS Aug. 2015 4186-4201*
- Spectral-Spatial Kernel Regularized for Hyperspectral Image Denoising. *Yuan, Y.*, +, *TGRS July 2015 3815-3832*
- Stable Mean-Shift Algorithm and Its Application to the Segmentation of Arbitrarily Large Remote Sensing Images. *Michel, J.*, +, *TGRS Feb. 2015 952-964*
- Substance Dependence Constrained Sparse NMF for Hyperspectral Unmixing. *Yuan, Y.*, +, *TGRS June 2015 2975-2986*
- Super-Resolution of Hyperspectral Images: Use of Optimum Wavelet Filter Coefficients and Sparsity Regularization. *Patel, R.C.*, +, *TGRS April 2015 1728-1736*
- Superpixel-Based Graphical Model for Remote Sensing Image Mapping. *Zhang, G.*, +, *TGRS Nov. 2015 5861-5871*
- Supervised Spectral-Spatial Hyperspectral Image Classification With Weighted Markov Random Fields. *Sun, L.*, +, *TGRS March 2015 1490-1503*
- Synthesis of Fractal Surfaces for Remote-Sensing Applications. *Riccio, D.*, +, *TGRS July 2015 3803-3814*
- Systematic Error Compensation Based on a Rational Function Model for Ziyuan1-02C. *Jiang, Y.*, +, *TGRS July 2015 3985-3995*
- Tensorial Independent Component Analysis-Based Feature Extraction for Polarimetric SAR Data Classification. *Tao, M.*, +, *TGRS May 2015 2481-2495*
- The Characteristics of the Multipath Scattering and the Application for Geometry Extraction in High-Resolution SAR Images. *Zhang, Y.*, +, *TGRS Aug. 2015 4687-4699*
- Theory of Two-Dimensional Signature Morphology for Arbitrarily Moving Surface Targets in Squinted Spotlight Synthetic Aperture Radar. *Garren, D.A.*, *TGRS Sept. 2015 4997-5008*
- Time Reversal Imaging of Deeply Buried Targets Under Moderately Rough Surfaces Using Approximate Transmitted Fields. *Moghadasi, S.M.*, +, *TGRS July 2015 3897-3905*
- Toward Evaluating Multiscale Segmentations of High Spatial Resolution Remote Sensing Images. *Zhang, X.*, +, *TGRS July 2015 3694-3706*
- Urban Land Use Information Extraction Using the Ultrahigh-Resolution Chinese Airborne SAR Imagery. *Wu, W.*, +, *TGRS Oct. 2015 5583-5599*
- Wall Clutter Mitigation Using Discrete Prolate Spheroidal Sequences for Sparse Reconstruction of Indoor Stationary Scenes. *Ahmad, F.*, +, *TGRS March 2015 1549-1557*
- Geophysical prospecting**
- Detection and Quantification of Three-Dimensional Hydraulic Fractures With Horizontal Borehole Resistivity Measurements. *Yang, K.*, +, *TGRS Aug. 2015 4605-4615*
- GPR Prospecting Through an Inverse-Scattering Frequency-Hopping Multifocusing Approach. *Salucci, M.*, +, *TGRS Dec. 2015 6573-6592*
- Geophysical signal processing**
- A Framework for Consistent Estimation of Leaf Area Index, Fraction of Absorbed Photosynthetically Active Radiation, and Surface Albedo from MODIS Time-Series Data. *Xiao, Z.*, +, *TGRS June 2015 3178-3197*
- A Physics-Based Unmixing Method to Estimate Subpixel Temperatures on Mixed Pixels. *Cubero-Castan, M.*, +, *TGRS April 2015 1894-1906*
- Analysis of Reconstructions Obtained Solving l^p -Penalized Minimization Problems. *Lenti, F.*, +, *TGRS Sept. 2015 4876-4886*
- Automatic Seismic Signal Detection via Record Segmentation. *Pikoulis, E.*, +, *TGRS July 2015 3870-2884*
- CAESAR: An Approach Based on Covariance Matrix Decomposition to Improve Multibaseline-Multitemporal Interferometric SAR Processing. *Fornaro, G.*, +, *TGRS April 2015 2050-2065*
- Cross-Sensor Continuity of Satellite-Derived Water Clarity in the Gulf of Mexico: Insights Into Temporal Aliasing and Implications for Long-Term Water Clarity Assessment. *Barnes, B.B.*, +, *TGRS April 2015 1761-1772*
- Direction-of-Arrival Estimation for Radar Ice Sounding Surface Clutter Suppression. *Nielsen, U.*, +, *TGRS Sept. 2015 5170-5179*
- Electromagnetic Inverse Scattering of Axially Moving Cylindrical Targets. *Pastorino, M.*, +, *TGRS March 2015 1452-1462*
- Gaussian Processes for Estimating Wavelength Position of the Ferric Iron Crystal Field Feature at ~ 900 nm From Hyperspectral Imagery Acquired in the Short-Wave Infrared (1002–1355 nm). *Murphy, R.J.*, +, *TGRS April 2015 1907-1920*
- Identification and Suppression of Nonmeteorological Echoes Using Spectral Polarimetric Processing. *Alku, L.*, +, *TGRS July 2015 3628-3638*
- Implementation of the OFDM Chirp Waveform on MIMO SAR Systems. *Wang, J.*, +, *TGRS Sept. 2015 5218-5228*
- Inference of the Transition Matrix in Convolved Hidden Markov Models and the Generalized Baum-Welch Algorithm. *Lindberg, D.V.*, +, *TGRS Dec. 2015 6443-6456*
- Isorange Pairwise Orthogonal Transform. *Blanes, I.*, +, *TGRS June 2015 3361-3372*
- Multiangle Backscattering Observations of Continental Surfaces in Ku-Band (13 GHz) From Satellites: Understanding the Signals, Particularly in Arid Regions. *Prigent, C.*, +, *TGRS March 2015 1364-1373*
- On Spectral Unmixing Resolution Using Extended Support Vector Machines. *Li, X.*, +, *TGRS Sept. 2015 4985-4996*
- Polarimetric Incoherent Target Decomposition by Means of Independent Component Analysis. *Besic, N.*, +, *TGRS March 2015 1236-1247*
- Polarimetric SAR Speckle Filtering and the Extended Sigma Filter. *Lee, J.*, +, *TGRS March 2015 1150-1160*
- Sampling of Time-Resolved Full-Waveform LIDAR Signals at Sub-Nyquist Rates. *Castorena, J.*, +, *TGRS July 2015 3791-3802*
- Temporal Decorrelation in L-, C-, and X-band Satellite Radar Interferometry for Pasture on Drained Peat Soils. *Morishita, Y.*, +, *TGRS Feb. 2015 1096-1104*
- Temporal Filtering of InSAR Data Using Statistical Parameters From NWP Models. *Gong, W.*, +, *TGRS July 2015 4033-4044*
- Waveform Aliasing in Satellite Radar Altimetry. *Smith, W.H.F.*, +, *TGRS April 2015 1671-1682*

Waveform Retracking for Improving Level Estimations From TOPEX/Poseidon, Jason-1, and Jason-2 Altimetry Observations Over African Lakes. *Uebbing, B.*, +, *TGRS April 2015 2211-2224*

Geophysical techniques

A Cumulative Distribution Function Method for Normalizing Variable-Angle Microwave Observations. *Ye, N.*, +, *TGRS July 2015 3906-3916*

A Fast Classification Scheme in Raman Spectroscopy for the Identification of Mineral Mixtures Using a Large Database With Correlated Predictors. *Cochrane, C.J.*, +, *TGRS Aug. 2015 4259-4274*

A Modified Water-Cloud Model With Leaf Angle Parameters for Microwave Backscattering From Agricultural Fields. *Kweon, S.*, +, *TGRS May 2015 2802-2809*

A Multiscale and Hierarchical Feature Extraction Method for Terrestrial Laser Scanning Point Cloud Classification. *Wang, Z.*, +, *TGRS May 2015 2409-2425*

A New Fast Algorithm for Linearly Unmixing Hyperspectral Images. *Guerra, R.*, +, *TGRS Dec. 2015 6752-6765*

A New Method for Suomi-NPP VIIRS Day-Night Band On-Orbit Radiometric Calibration. *Lee, S.*, +, *TGRS Jan. 2015 324-334*

A Semiphysical Microwave Surface Emission Model for Soil Moisture Retrieval. *Shen, X.*, +, *TGRS July 2015 4079-4090*

A Three-Dimensional Model-Based Approach to the Estimation of the Tree Top Height by Fusing Low-Density LiDAR Data and Very High Resolution Optical Images. *Paris, C.*, +, *TGRS Jan. 2015 467-480*

Adaptive Control of Undetected Radio Frequency Interference With a Spaceborne Microwave Radiometer. *Chen, D.D.*, +, *TGRS Sept. 2015 4972-4984*

An Error-Bound-Regularized Sparse Coding for Spatiotemporal Reflectance Fusion. *Wu, B.*, +, *TGRS Dec. 2015 6791-6803*

Analysis of Interactions Among Two Tropical Depressions and Typhoons Tembin and Bolaven (2012) in Pacific Ocean by Using Satellite Cloud Images. *Liu, J.*, +, *TGRS March 2015 1394-1402*

Analysis of Reconstructions Obtained Solving l^p -Penalized Minimization Problems. *Lenti, F.*, +, *TGRS Sept. 2015 4876-4886*

Anisotropic Phase Unwrapping for Synthetic Aperture Radar Interferometry. *Danurdirdjo, D.*, +, *TGRS July 2015 4116-4126*

Automatic Orthorectification of High-Resolution Optical Satellite Images Using Vector Roads. *Marsetic, A.*, +, *TGRS Nov. 2015 6035-6047*

Automatic Seismic Signal Detection via Record Segmentation. *Pikoulis, E.*, +, *TGRS July 2015 3870-2884*

Canopy Density Model: A New ALS-Derived Product to Generate Multi-layer Crown Cover Maps. *Ferraz, A.*, +, *TGRS Dec. 2015 6776-6790*

Capabilities of BIOMASS Tomography for Investigating Tropical Forests. *Ho Tong Minh, D.*, +, *TGRS Feb. 2015 965-975*

Classification of Alaska Spring Thaw Characteristics Using Satellite L-Band Radar Remote Sensing. *Du, J.*, +, *TGRS Jan. 2015 542-556*

Classifying Compound Structures in Satellite Images: A Compressed Representation for Fast Queries. *Gueguen, L.*, *TGRS April 2015 1803-1818*

Comparison of Dobson and Mironov Dielectric Models in the SMOS Soil Moisture Retrieval Algorithm. *Mialon, A.*, +, *TGRS June 2015 3084-3094*

Contextual and Hierarchical Classification of Satellite Images Based on Cellular Automata. *Espinola, M.*, +, *TGRS Feb. 2015 795-809*

Correcting Incompatible DN Values and Geometric Errors in Nighttime Lights Time-Series Images. *Zhao, N.*, +, *TGRS April 2015 2039-2049*

Cross-Calibration of the HSI Sensor Reflective Solar Bands Using Hyperion Data. *Gao, H.*, +, *TGRS July 2015 4127-4137*

Deformation Parameter Estimation in Low Coherence Areas Using a Multisatellite InSAR Approach. *Morishita, Y.*, +, *TGRS Aug. 2015 4275-4283*

Development of Onboard Digital Elevation and Relief Databases for ICESat-2. *Leigh, H.W.*, +, *TGRS April 2015 2011-2020*

Dielectric Properties of Saline Soils and an Improved Dielectric Model in C-Band. *Wu, Y.*, +, *TGRS Jan. 2015 440-452*

Dimension Reduction Using Spatial and Spectral Regularized Local Discriminant Embedding for Hyperspectral Image Classification. *Zhou, Y.*, +, *TGRS Feb. 2015 1082-1095*

Downscaling Satellite-Based Soil Moisture in Heterogeneous Regions Using High-Resolution Remote Sensing Products and Information Theory: A Synthetic Study. *Chakrabarti, S.*, +, *TGRS Jan. 2015 85-101*

Efficient Near-Field Imaging for Single-Borehole Radar With Widely Separated Transceivers. *Yang, H.*, +, *TGRS Oct. 2015 5327-5337*

Forest Data Collection Using Terrestrial Image-Based Point Clouds From a Handheld Camera Compared to Terrestrial and Personal Laser Scanning. *Liang, X.*, +, *TGRS Sept. 2015 5117-5132*

Functions of Multiple Instances for Learning Target Signatures. *Jiao, C.*, +, *TGRS Aug. 2015 4670-4686*

Gamma Gaussian Inverse Wishart Probability Hypothesis Density for Extended Target Tracking Using X-Band Marine Radar Data. *Granstrom, K.*, +, *TGRS Dec. 2015 6617-6631*

Generalization of PILE Method to the EM Scattering From Stratified Subsurface With Rough Interlayers: Application to the Detection of Debondings Within Pavement Structure. *Bourlier, C.*, +, *TGRS July 2015 4104-4115*

Geodetic Network Design for InSAR. *Mahapatra, P.S.*, +, *TGRS July 2015 3669-3680*

Global Land Surface Backscatter at Ku-Band Using Merged Jason1, Envisat, and Jason2 Data Sets. *Yang, L.*, +, *TGRS Feb. 2015 784-794*

Hierarchical Clustering of Hyperspectral Images Using Rank-Two Nonnegative Matrix Factorization. *Gillis, N.*, +, *TGRS April 2015 2066-2078*

Improved EMCF-SBAS Processing Chain Based on Advanced Techniques for the Noise-Filtering and Selection of Small Baseline Multi-Look DInSAR Interferograms. *Pepe, A.*, +, *TGRS Aug. 2015 4394-4417*

Measurement and Correction of Atmospheric Effects at Different Altitudes for Remote Sensing of Sun-Induced Fluorescence in Oxygen Absorption Bands. *Daumard, F.*, +, *TGRS Sept. 2015 5180-5196*

Measuring the Directional Variations of Land Surface Reflectance From MODIS. *Breon, F.*, +, *TGRS Aug. 2015 4638-4649*

Minimizing Reflectance Anisotropy Effects in Airborne Spectroscopy Data Using Ross-Li Model Inversion With Continuous Field Land Cover Stratification. *Weyermann, J.*, +, *TGRS Nov. 2015 5814-5823*

Nonparametric Regression for Estimation of Spatiotemporal Mountain Glacier Retreat From Satellite Images. *Kachouie, N.N.*, +, *TGRS March 2015 1135-1149*

On Spectral Unmixing Resolution Using Extended Support Vector Machines. *Li, X.*, +, *TGRS Sept. 2015 4985-4996*

Operational BRDF Effects Correction for Wide-Field-of-View Optical Scanners (BREFCOR). *Schlapfer, D.*, +, *TGRS April 2015 1855-1864*

Pansharpening of Multispectral Images Based on Nonlocal Parameter Optimization. *Garzelli, A.*, *TGRS April 2015 2096-2107*

Pattern-Based Assessment of Land Cover Change on Continental Scale With Application to NLCD 2001-2006. *Netzel, P.*, +, *TGRS April 2015 1773-1781*

Permittivity Estimation Using Coupling of Commercial Ground Penetrating Radars. *Hislop, G.*, *TGRS Aug. 2015 4157-4164*

Precise Three-Dimensional Stereo Localization of Corner Reflectors and Persistent Scatterers With TerraSAR-X. *Gisinger, C.*, +, *TGRS April 2015 1782-1802*

Progressive Band Processing of Constrained Energy Minimization for Subpixel Detection. *Chang, C.*, +, *TGRS March 2015 1626-1637*

Region-Kernel-Based Support Vector Machines for Hyperspectral Image Classification. *Peng, J.*, +, *TGRS Sept. 2015 4810-4824*

Reliable Technology of Centimeter GPS/GLONASS Surveying in Forest Environments. *Bakula, M.*, +, *TGRS Feb. 2015 1029-1038*

Rotational Pixel Swapping Method for Detection of Circular Features in Binary Images. *Yamamoto, S.*, +, *TGRS Feb. 2015 710-723*

Saliency-Guided Unsupervised Feature Learning for Scene Classification. *Zhang, F.*, +, *TGRS April 2015 2175-2184*

Scattering Centers Detection and Tracking in Refocused Spaceborne SAR Images for Infrastructure Monitoring. *Anghel, A.*, +, *TGRS Aug. 2015 4379-4393*

Semisupervised Hyperspectral Classification Using Task-Driven Dictionary Learning With Laplacian Regularization. *Wang, Z.*, +, *TGRS March 2015 1161-1173*

Sequential Spectral Change Vector Analysis for Iteratively Discovering and Detecting Multiple Changes in Hyperspectral Images. *Liu, S.*, +, *TGRS Aug. 2015 4363-4378*

Simulation of the SuperSAR Multi-Azimuth Synthetic Aperture Radar Imaging System for Precise Measurement of Three-Dimensional Earth Surface Displacement. *Jung, H.*, +, *TGRS Nov. 2015 6196-6206*

Spatiotemporal Data Fusion Using Temporal High-Pass Modulation and Edge Primitives. *Malleswara Rao, J.*, +, *TGRS Nov. 2015 5853-5860*

Spectral and Spatial Classification of Hyperspectral Images Based on ICA and Reduced Morphological Attribute Profiles. *Falco, N.*, +, *TGRS Nov. 2015 6223-6240*

Spectral-Spatial Classification of Hyperspectral Images With a Superpixel-Based Discriminative Sparse Model. *Fang, L.*, +, *TGRS Aug. 2015 4186-4201*

Superpixel-Based Graphical Model for Remote Sensing Image Mapping. *Zhang, G.*, +, *TGRS Nov. 2015 5861-5871*

- Temporal Filtering of InSAR Data Using Statistical Parameters From NWP Models. *Gong, W.*, +, *TGRS July 2015 4033-4044*
- The Interaction Between Faraday Rotation and System Effects in Synthetic Aperture Radar Measurements of Backscatter and Biomass. *Quegan, S.*, +, *TGRS Aug. 2015 4299-4312*
- The Soil Moisture Active Passive Validation Experiment 2012 (SMAPVEX12): Prelaunch Calibration and Validation of the SMAP Soil Moisture Algorithms. *McNairn, H.*, +, *TGRS May 2015 2784-2801*
- Time Reversal Imaging of Deeply Buried Targets Under Moderately Rough Surfaces Using Approximate Transmitted Fields. *Moghadasi, S.M.*, +, *TGRS July 2015 3897-3905*
- Update of VIIRS On-Orbit Spatial Parameters Characterized With the Moon. *Wang, Z.*, +, *TGRS Oct. 2015 5486-5494*
- Wideband Frequency Domain Method of Soil Dielectric Property Measurements. *Bobrov, P.P.*, +, *TGRS May 2015 2366-2372*

Geophysics computing

- A Fast Classification Scheme in Raman Spectroscopy for the Identification of Mineral Mixtures Using a Large Database With Correlated Predictors. *Cochrane, C.J.*, +, *TGRS Aug. 2015 4259-4274*
- Design of an Optimal Soil Moisture Monitoring Network Using SMOS Retrieved Soil Moisture. *Kornelsen, K.C.*, +, *TGRS July 2015 3950-3959*
- Hierarchical Clustering of Hyperspectral Images Using Rank-Two Nonnegative Matrix Factorization. *Gillis, N.*, +, *TGRS April 2015 2066-2078*
- Knowledge-Based Multitarget Ship Tracking for HF Surface Wave Radar Systems. *Vivone, G.*, +, *TGRS July 2015 3931-3949*

Glaciology

- A Semiautomated Multilayer Picking Algorithm for Ice-Sheet Radar Echograms Applied to Ground-Based Near-Surface Data. *Onana, V.d.P.*, +, *TGRS Jan. 2015 51-69*
- Automated Generation of a Digital Elevation Model Over Steep Terrain in Antarctica From High-Resolution Satellite Imagery. *Lee, C.*, +, *TGRS March 2015 1186-1194*
- Direction-of-Arrival Estimation for Radar Ice Sounding Surface Clutter Suppression. *Nielsen, U.*, +, *TGRS Sept. 2015 5170-5179*
- Fine-Resolution Radar Altimeter Measurements on Land and Sea Ice. *Patel, A.*, +, *TGRS May 2015 2547-2564*
- Modeling and Simulation of Glacier Avalanche: A Case Study of Gayari Sector Glaciers Hazards Assessment. *Mahboob, M.A.*, +, *TGRS Nov. 2015 5824-5834*
- Nonparametric Regression for Estimation of Spatiotemporal Mountain Glacier Retreat From Satellite Images. *Kachouie, N.N.*, +, *TGRS March 2015 1135-1149*
- Radiometric Approach for Estimating Relative Changes in Intraglaciar Average Temperature. *Jezek, K.C.*, +, *TGRS Jan. 2015 134-143*
- RES Signatures of Ice Bottom Near to Dome C (Antarctica). *Urbini, S.*, +, *TGRS March 2015 1558-1564*

Global Positioning System

- An Improvement of Ionospheric Phase Correction by Multiple-Aperture Interferometry. *Jung, H.*, +, *TGRS Sept. 2015 4952-4960*
- Atmospheric Effects Removal for the Infrared Image Sequences. *Ozsarac, S.*, +, *TGRS Sept. 2015 4899-4909*
- Calibration and Evaluation of Precipitable Water Vapor From MODIS Infrared Observations at Night. *Chang, L.*, +, *TGRS May 2015 2612-2620*
- Characteristics of the Trends in the Global Tropopause Estimated From COSMIC Radio Occultation Data. *Gao, P.*, +, *TGRS Dec. 2015 6813-6822*
- High-Latitude Ionospheric Irregularity Drift Velocity Estimation Using Spaced GPS Receiver Carrier Phase Time-Frequency Analysis. *Wang, J.*, +, *TGRS Nov. 2015 6099-6113*
- Multianglular BSAR Imaging Based on BeiDou-2 Navigation Satellite System: Experiments and Preliminary Results. *Zeng, T.*, +, *TGRS Oct. 2015 5760-5773*
- Phase Offset Calculation for Airborne InSAR DEM Generation Without Corner Reflectors. *Perna, S.*, +, *TGRS May 2015 2713-2726*
- Real-Time GPS Precise Point Positioning-Based Precipitable Water Vapor Estimation for Rainfall Monitoring and Forecasting. *Shi, J.*, +, *TGRS June 2015 3452-3459*
- Reliable Technology of Centimeter GPS/GLONASS Surveying in Forest Environments. *Bakula, M.*, +, *TGRS Feb. 2015 1029-1038*
- Vegetation Sensing Using GPS-Interferometric Reflectometry: Theoretical Effects of Canopy Parameters on Signal-to-Noise Ratio Data. *Chew, C.C.*, +, *TGRS May 2015 2755-2764*
- Wuhan Ionospheric Oblique-Incidence Sounding System and Its New Application in Localization of Ionospheric Irregularities. *Shi, S.*, +, *TGRS April 2015 2185-2194*

Global warming

- Characteristics of the Trends in the Global Tropopause Estimated From COSMIC Radio Occultation Data. *Gao, P.*, +, *TGRS Dec. 2015 6813-6822*

Gradient methods

- An Abundance Characteristic-Based Independent Component Analysis for Hyperspectral Unmixing. *Wang, N.*, +, *TGRS Jan. 2015 416-428*
- Multichannel Phase Unwrapping: Problem Topology and Dual-Level Parallel Computational Model. *Imperatore, P.*, +, *TGRS Oct. 2015 5774-5793*
- Novel Methods to Accelerate CS Radar Imaging by NUFFT. *Sun, S.*, +, *TGRS Jan. 2015 557-566*

Graph theory

- A Novel Graph-Matching-Based Approach for Domain Adaptation in Classification of Remote Sensing Image Pair. *Banerjee, B.*, +, *TGRS July 2015 4045-4062*
- Automatic Construction of 3-D Building Model From Airborne LIDAR Data Through 2-D Snake Algorithm. *Yan, J.*, +, *TGRS Jan. 2015 3-14*
- Extended Random Walker-Based Classification of Hyperspectral Images. *Kang, X.*, +, *TGRS Jan. 2015 144-153*
- Graph-Based Supervised Automatic Target Detection. *Mishne, G.*, +, *TGRS May 2015 2738-2754*
- Local-Manifold-Learning-Based Graph Construction for Semisupervised Hyperspectral Image Classification. *Ma, L.*, +, *TGRS May 2015 2832-2844*
- Simultaneous Sparse Graph Embedding for Hyperspectral Image Classification. *Xue, Z.*, +, *TGRS Nov. 2015 6114-6133*
- Spectral-Spatial Classification for Hyperspectral Data Using Rotation Forests With Local Feature Extraction and Markov Random Fields. *Xia, J.*, +, *TGRS May 2015 2532-2546*

Greedy algorithms

- A Sparse Representation-Based Binary Hypothesis Model for Target Detection in Hyperspectral Images. *Zhang, Y.*, +, *TGRS March 2015 1346-1354*
- Futuristic Greedy Approach to Sparse Unmixing of Hyperspectral Data. *Akhtar, N.*, +, *TGRS April 2015 2157-2174*

Green's function methods

- A Novel Approximate Solution for Electromagnetic Scattering by Dielectric Disks. *Wang, L.*, +, *TGRS May 2015 2948-2955*
- Characterizing the Aerosol and Surface Reflectance Over Australia Using AATSR. *Qin, Y.*, +, *TGRS Nov. 2015 6163-6182*
- Electromagnetic Wave Scattering Analysis From 2-D Periodic Rough Surfaces Using Complex Images Technique. *Barzegar-Parizi, S.*, +, *TGRS Feb. 2015 862-868*
- Estimation of Hydraulic Properties of a Sandy Soil Using Ground-Based Active and Passive Microwave Remote Sensing. *Jonard, F.*, +, *TGRS June 2015 3095-3109*
- Extension of the Spectral Acceleration Method to Lossy Medium and Its Application to Electromagnetic Scattering From Rough Surfaces. *Wang, Y.*, +, *TGRS April 2015 1865-1875*
- Time Reversal Imaging of Deeply Buried Targets Under Moderately Rough Surfaces Using Approximate Transmitted Fields. *Moghadasi, S.M.*, +, *TGRS July 2015 3897-3905*

Ground penetrating radar

- Calibration of FDTD Simulation of GPR Signal for Asphalt Pavement Compaction Monitoring. *Shangguan, P.*, +, *TGRS March 2015 1538-1548*
- Change Detection in Constellations of Buried Objects Extracted From Ground-Penetrating Radar Data. *Paglieroni, D.W.*, +, *TGRS May 2015 2426-2439*
- Combination of H-Alpha Decomposition and Migration for Enhancing Subsurface Target Classification of GPR. *Feng, X.*, +, *TGRS Sept. 2015 4852-4861*
- Discrimination of Buried Objects in Impulse GPR Using Phase Retrieval Technique. *Huuskonen-Snicker, E.*, +, *TGRS Feb. 2015 1001-1007*
- Efficient Algorithm Design for GPR Imaging of Landmines. *Krueger, K.R.*, +, *TGRS July 2015 4010-4021*
- Efficient Deconvolution of Ground-Penetrating Radar Data. *Schmelzbach, C.*, +, *TGRS Sept. 2015 5209-5217*
- Fast Analysis of C-Scans From Ground Penetrating Radar via 3-D Haar-Like Features With Application to Landmine Detection. *Klesk, P.*, +, *TGRS July 2015 3996-4009*
- Forward-Looking Ground-Penetrating Radar via a Linear Inverse Scattering Approach. *Catapano, I.*, +, *TGRS Oct. 2015 5624-5633*
- Generalization of PILE Method to the EM Scattering From Stratified Subsurface With Rough Interlayers: Application to the Detection of Debondings Within Pavement Structure. *Bourlier, C.*, +, *TGRS July 2015 4104-4115*
- GPR Prospecting Through an Inverse-Scattering Frequency-Hopping Multifocusing Approach. *Salucci, M.*, +, *TGRS Dec. 2015 6573-6592*

- Improving Target Detection Accuracy Based on Multipolarization MIMO GPR. *Zeng, Z.*, +, *TGRS Jan. 2015 15-24*
- Model-Based Quantitative Cross-Borehole GPR Imaging via Virtual Experiments. *Di Donato, L.*, +, *TGRS Aug. 2015 4178-4185*
- Multiple-Instance Hidden Markov Model for GPR-Based Landmine Detection. *Manandhar, A.*, +, *TGRS April 2015 1737-1745*
- Non-Invasive Forest Litter Characterization Using Full-Wave Inversion of Microwave Radar Data. *Andre, F.*, +, *TGRS Feb. 2015 828-840*
- Permittivity Estimation Using Coupling of Commercial Ground Penetrating Radars. *Hislop, G.*, +, *TGRS Aug. 2015 4157-4164*
- Robust Clutter Suppression and Moving Target Imaging Approach for Multichannel in Azimuth High-Resolution and Wide-Swath Synthetic Aperture Radar. *Zhang, S.*, +, *TGRS Feb. 2015 687-709*

Groundwater

- InSAR Assessment of Surface Deformations in Urban Coastal Terrains Associated With Groundwater Dynamics. *Normand, J.C.L.*, +, *TGRS Dec. 2015 6356-6371*

H

Haar transforms

- Fast Analysis of C-Scans From Ground Penetrating Radar via 3-D Haar-Like Features With Application to Landmine Detection. *Klesk, P.*, +, *TGRS July 2015 3996-4009*
- Spectral-Spatial Classification of Hyperspectral Data via Morphological Component Analysis-Based Image Separation. *Xue, Z.*, +, *TGRS Jan. 2015 70-84*

Heat radiation

- Simulation of Airborne Radiometric Detection of Wake Vortices. *Daniels, T.*, +, *TGRS Dec. 2015 6336-6343*

Height measurement

- Waveform Aliasing in Satellite Radar Altimetry. *Smith, W.H.F.*, +, *TGRS April 2015 1671-1682*

Hessian matrices

- Remote Sensing Image Matching Based on Adaptive Binning SIFT Descriptor. *Sedaghat, A.*, +, *TGRS Oct. 2015 5283-5293*

HF antennas

- Coaxial-Fed Circular Dipole Array Antenna With Ferrite Loading for Thin Directional Borehole Radar Sonde. *Ebihara, S.*, +, *TGRS April 2015 1842-1854*

Hidden Markov models

- Multiple-Instance Hidden Markov Model for GPR-Based Landmine Detection. *Manandhar, A.*, +, *TGRS April 2015 1737-1745*
- Multiple-Instance Hidden Markov Models With Applications to Landmine Detection. *Yuksel, S.E.*, +, *TGRS Dec. 2015 6766-6775*

Hilbert spaces

- Analysis of Reconstructions Obtained Solving l^p -Penalized Minimization Problems. *Lenti, F.*, +, *TGRS Sept. 2015 4876-4886*

Holography

- Minimum-Entropy-Based Adaptive Focusing Algorithm for Image Reconstruction of Terahertz Single-Frequency Holography With Improved Depth of Focus. *Sun, Z.*, +, *TGRS Jan. 2015 519-526*

Humidity sensors

- Advanced Microwave Atmospheric Sounder (AMAS) Channel Specifications and T/V Calibration Results on FY-3C Satellite. *Jieying, H.*, +, *TGRS Jan. 2015 481-493*

Hydrocarbon reservoirs

- Detection and Quantification of Three-Dimensional Hydraulic Fractures With Horizontal Borehole Resistivity Measurements. *Yang, K.*, +, *TGRS Aug. 2015 4605-4615*
- Imaging of Oil-Well Perforations Using UWB Synthetic Aperture Radar. *Oloumi, D.*, +, *TGRS Aug. 2015 4510-4520*
- Inference of the Transition Matrix in Convolved Hidden Markov Models and the Generalized Baum-Welch Algorithm. *Lindberg, D.V.*, +, *TGRS Dec. 2015 6443-6456*

Hydrogen bonds

- A Model for the Complex Dielectric Constant of Supercooled Liquid Water at Microwave Frequencies. *Rosenkranz, P.W.*, +, *TGRS March 2015 1387-1393*

Hydrological techniques

- A Combined Active-Passive Soil Moisture Estimation Algorithm With Adaptive Regularization in Support of SMAP. *Akbar, R.*, +, *TGRS June 2015 3312-3324*

- A Comparison of ASCAT Soil Moisture Data With *In Situ* Observations Over the Indian Region: A Multiscale Analysis. *Bhimala, K.R.*, +, *TGRS Oct. 2015 5425-5434*

- A Global Sensitivity Analysis of Soil Parameters Associated With Backscattering Using the Advanced Integral Equation Model. *Ma, C.*, +, *TGRS Oct. 2015 5613-5623*

- A Semiautomated Multilayer Picking Algorithm for Ice-Sheet Radar Echograms Applied to Ground-Based Near-Surface Data. *Onana, V.d.P.*, +, *TGRS Jan. 2015 51-69*

- A Wavelet-Enhanced Inversion Method for Water Quality Retrieval From High Spectral Resolution Data for Complex Waters. *Ampe, E.M.*, +, *TGRS Feb. 2015 869-882*

- An Algorithm Based on the Standard Deviation of Passive Microwave Brightness Temperatures for Monitoring Soil Surface Freeze/Thaw State on the Tibetan Plateau. *Han, M.*, +, *TGRS May 2015 2775-2783*

- Copula-Based Downscaling of Coarse-Scale Soil Moisture Observations With Implicit Bias Correction. *Verhoest, N.E.C.*, +, *TGRS June 2015 3507-3521*

- Direction-of-Arrival Estimation for Radar Ice Sounding Surface Clutter Suppression. *Nielsen, U.*, +, *TGRS Sept. 2015 5170-5179*

- Estimating Effective Roughness Parameters of the L-MEB Model for Soil Moisture Retrieval Using Passive Microwave Observations From SMAPVEX12. *Martens, B.*, +, *TGRS July 2015 4091-4103*

- Focused Synthetic Aperture Radar Processing of Ice-Sounding Data Collected Over the East Antarctic Ice Sheet via the Modified Range Migration Algorithm Using Curvelets. *Lang, S.*, +, *TGRS Aug. 2015 4496-4509*

- Improving Soil Moisture Profile Prediction With the Particle Filter-Markov Chain Monte Carlo Method. *Yan, H.*, +, *TGRS Nov. 2015 6134-6147*

- Microwave Backscatter From Arctic Lake Ice and Polarimetric Implications. *Atwood, D.K.*, +, *TGRS Nov. 2015 5972-5982*

- Modeling and Simulation of Glacier Avalanche: A Case Study of Gayari Sector Glaciers Hazards Assessment. *Mahboob, M.A.*, +, *TGRS Nov. 2015 5824-5834*

- Modeling L-Band Brightness Temperature at Dome C in Antarctica and Comparison With SMOS Observations. *Leduc-Leballeur, M.*, +, *TGRS July 2015 4022-4032*

- P-Band Radar Retrieval of Subsurface Soil Moisture Profile as a Second-Order Polynomial: First AirMOSS Results. *Tabatabaenejad, A.*, +, *TGRS Feb. 2015 645-658*

- Sensitivity of Aquarius Active and Passive Measurements Temporal Covariability to Land Surface Characteristics. *Piles, M.*, +, *TGRS Aug. 2015 4700-4711*

- Simulation of the SMAP Data Stream From SMAPEX Field Campaigns in Australia. *Wu, X.*, +, *TGRS April 2015 1921-1934*

- Snow Depth Estimation Based on Multipath Phase Combination of GPS Triple-Frequency Signals. *Yu, K.*, +, *TGRS Sept. 2015 5100-5109*

- Soil Moisture Estimation Under Tropical Forests Using UHF Radar Polarimetry. *Truong-Loi, M.*, +, *TGRS April 2015 1718-1727*

- Soil Moisture Retrieval Using L-Band Radar Observations. *Narvekar, P.S.*, +, *TGRS June 2015 3492-3506*

- Soil Moisture Retrieval Using Neural Networks: Application to SMOS. *Rodriguez-Fernandez, N.J.*, +, *TGRS Nov. 2015 5991-6007*

- Waveform Retracking for Improving Level Estimations From TOPEX/Poseidon, Jason-1, and Jason-2 Altimetry Observations Over African Lakes. *Uebbing, B.*, +, *TGRS April 2015 2211-2224*

Hydrology

- Effect of the Polarization Leakage on the SMOS Image Reconstruction Algorithm: Validation Using Ocean Model and *In Situ* Soil Moisture Data. *Khazaal, A.*, +, *TGRS Sept. 2015 4961-4971*

Hyperspectral imaging

- A Convex Formulation for Hyperspectral Image Superresolution via Subspace-Based Regularization. *Simoes, M.*, +, *TGRS June 2015 3373-3388*

- A New Fast Algorithm for Linearly Unmixing Hyperspectral Images. *Guerra, R.*, +, *TGRS Dec. 2015 6752-6765*

- A Novel Feature Selection Approach Based on FODPSO and SVM. *Ghamisi, P.*, +, *TGRS May 2015 2935-2947*

- A Novel Graph-Matching-Based Approach for Domain Adaptation in Classification of Remote Sensing Image Pair. *Banerjee, B.*, +, *TGRS July 2015 4045-4062*

- A Novel Negative Abundance-Oriented Hyperspectral Unmixing Algorithm. *Marrero, R.*, +, *TGRS July 2015 3772-3790*

- A Physics-Based Unmixing Method to Estimate Subpixel Temperatures on Mixed Pixels. *Cubero-Castan, M.*, +, *TGRS April 2015 1894-1906*

- A Sparse Representation-Based Binary Hypothesis Model for Target Detection in Hyperspectral Images. *Zhang, Y.*, +, *TGRS March 2015 1346-1354*
- A Technique for Simultaneous Visualization and Segmentation of Hyperspectral Data. *Meka, A.*, +, *TGRS April 2015 1707-1717*
- A Theory of Recursive Orthogonal Subspace Projection for Hyperspectral Imaging. *Song, M.*, +, *TGRS June 2015 3055-3072*
- Active Learning With Gaussian Process Classifier for Hyperspectral Image Classification. *Sun, S.*, +, *TGRS April 2015 1746-1760*
- An Abundance Characteristic-Based Independent Component Analysis for Hyperspectral Unmixing. *Wang, N.*, +, *TGRS Jan. 2015 416-428*
- An Adaptive Subpixel Mapping Method Based on MAP Model and Class Determination Strategy for Hyperspectral Remote Sensing Imagery. *Zhong, Y.*, +, *TGRS March 2015 1411-1426*
- Automatic Spatial-Spectral Feature Selection for Hyperspectral Image via Discriminative Sparse Multimodal Learning. *Zhang, Q.*, +, *TGRS Jan. 2015 261-279*
- Band-Specific Shearlet-Based Hyperspectral Image Noise Reduction. *Karami, A.*, +, *TGRS Sept. 2015 5054-5066*
- Class-Dependent Sparse Representation Classifier for Robust Hyperspectral Image Classification. *Cui, M.*, +, *TGRS May 2015 2683-2695*
- Classification of Hyperspectral Images by Exploiting Spectral-Spatial Information of Superpixel via Multiple Kernels. *Fang, L.*, +, *TGRS Dec. 2015 6663-6674*
- Collaborative Active and Semisupervised Learning for Hyperspectral Remote Sensing Image Classification. *Wan, L.*, +, *TGRS May 2015 2384-2396*
- Collaborative Representation for Hyperspectral Anomaly Detection. *Li, W.*, +, *TGRS March 2015 1463-1474*
- Complementarity of Discriminative Classifiers and Spectral Unmixing Techniques for the Interpretation of Hyperspectral Images. *Li, J.*, +, *TGRS May 2015 2899-2912*
- Compressive Hyperspectral Imaging via Sparse Tensor and Nonlinear Compressed Sensing. *Yang, S.*, +, *TGRS Nov. 2015 5943-5957*
- Constrained Least Squares Algorithms for Nonlinear Unmixing of Hyperspectral Imagery. *Pu, H.*, +, *TGRS March 2015 1287-1303*
- Cross-Calibration of the HSI Sensor Reflective Solar Bands Using Hyperion Data. *Gao, H.*, +, *TGRS July 2015 4127-4137*
- Dimension Reduction Using Spatial and Spectral Regularized Local Discriminant Embedding for Hyperspectral Image Classification. *Zhou, Y.*, +, *TGRS Feb. 2015 1082-1095*
- Dimensionality Reduction of Hyperspectral Images With Sparse Discriminant Embedding. *Huang, H.*, +, *TGRS Sept. 2015 5160-5169*
- Efficient Superpixel-Level Multitask Joint Sparse Representation for Hyperspectral Image Classification. *Li, J.*, +, *TGRS Oct. 2015 5338-5351*
- Emissivity and Temperature Assessment Using a Maximum Entropy Estimator: Structure and Performance of the MaxEnTES Algorithm. *Barducci, A.*, +, *TGRS Feb. 2015 738-751*
- Extended Random Walker-Based Classification of Hyperspectral Images. *Kang, X.*, +, *TGRS Jan. 2015 144-153*
- Extension of the Linear Chromodynamics Model for Spectral Change Detection in the Presence of Residual Spatial Misregistration. *Vongsy, K.*, +, *TGRS June 2015 3005-3021*
- Fast Hyperspectral Anomaly Detection via High-Order 2-D Crossing Filter. *Yuan, Y.*, +, *TGRS Feb. 2015 620-630*
- Futuristic Greedy Approach to Sparse Unmixing of Hyperspectral Data. *Akhtar, N.*, +, *TGRS April 2015 2157-2174*
- Gabor Feature-Based Collaborative Representation for Hyperspectral Imagery Classification. *Jia, S.*, +, *TGRS Feb. 2015 1118-1129*
- Gaussian Processes for Estimating Wavelength Position of the Ferric Iron Crystal Field Feature at ~ 900 nm From Hyperspectral Imagery Acquired in the Short-Wave Infrared (1002–1355 nm). *Murphy, R.J.*, +, *TGRS April 2015 1907-1920*
- Hierarchical Clustering of Hyperspectral Images Using Rank-Two Nonnegative Matrix Factorization. *Gillis, N.*, +, *TGRS April 2015 2066-2078*
- Hierarchical Unsupervised Change Detection in Multitemporal Hyperspectral Images. *Liu, S.*, +, *TGRS Jan. 2015 244-260*
- HYCA: A New Technique for Hyperspectral Compressive Sensing. *Martin, G.*, +, *TGRS May 2015 2819-2831*
- Hyperspectral and Multispectral Image Fusion Based on a Sparse Representation. *Wei, Q.*, +, *TGRS July 2015 3658-3668*
- Hyperspectral Band Selection Based on Rough Set. *Patra, S.*, +, *TGRS Oct. 2015 5495-5503*
- Hyperspectral Band Selection by Multitask Sparsity Pursuit. *Yuan, Y.*, +, *TGRS Feb. 2015 631-644*
- Hyperspectral Image Classification Based on Three-Dimensional Scattering Wavelet Transform. *Tang, Y.Y.*, +, *TGRS May 2015 2467-2480*
- Hyperspectral Image Denoising via Sparse Representation and Low-Rank Constraint. *Zhao, Y.*, +, *TGRS Jan. 2015 296-308*
- Identifiability of the Simplex Volume Minimization Criterion for Blind Hyperspectral Unmixing: The No-Pure-Pixel Case. *Lin, C.*, +, *TGRS Oct. 2015 5530-5546*
- Integration of Hyperspectral Imagery and Sparse Sonar Data for Shallow Water Bathymetry Mapping. *Cheng, L.*, +, *TGRS June 2015 3235-3249*
- Intrinsic Image Decomposition for Feature Extraction of Hyperspectral Images. *Kang, X.*, +, *TGRS April 2015 2241-2253*
- Iterative Hyperspectral Image Classification Using Spectral-Spatial Relational Features. *Guccione, P.*, +, *TGRS July 2015 3615-3627*
- Linear Spectral Mixture Analysis via Multiple-Kernel Learning for Hyperspectral Image Classification. *Liu, K.*, +, *TGRS April 2015 2254-2269*
- Local Binary Patterns and Extreme Learning Machine for Hyperspectral Imagery Classification. *Li, W.*, +, *TGRS July 2015 3681-3693*
- Local-Manifold-Learning-Based Graph Construction for Semisupervised Hyperspectral Image Classification. *Ma, L.*, +, *TGRS May 2015 2832-2844*
- Minimum Volume Simplex Analysis: A Fast Algorithm for Linear Hyperspectral Unmixing. *Li, J.*, +, *TGRS Sept. 2015 5067-5082*
- Model-Based Fusion of Multi- and Hyperspectral Images Using PCA and Wavelets. *Palsson, F.*, +, *TGRS May 2015 2652-2663*
- Multiple Feature Learning for Hyperspectral Image Classification. *Li, J.*, +, *TGRS March 2015 1592-1606*
- Multitask Sparse Nonnegative Matrix Factorization for Joint Spectral-Spatial Hyperspectral Imagery Denoising. *Ye, M.*, +, *TGRS May 2015 2621-2639*
- Mutual-Information-Based Semi-Supervised Hyperspectral Band Selection With High Discrimination, High Information, and Low Redundancy. *Feng, J.*, +, *TGRS May 2015 2956-2969*
- Novel Two-Dimensional Singular Spectrum Analysis for Effective Feature Extraction and Data Classification in Hyperspectral Imaging. *Zabalza, J.*, +, *TGRS Aug. 2015 4418-4433*
- On Diverse Noises in Hyperspectral Unmixing. *Li, C.*, +, *TGRS Oct. 2015 5388-5402*
- On Spectral Unmixing Resolution Using Extended Support Vector Machines. *Li, X.*, +, *TGRS Sept. 2015 4985-4996*
- Random Subspace Ensembles for Hyperspectral Image Classification With Extended Morphological Attribute Profiles. *Xia, J.*, +, *TGRS Sept. 2015 4768-4786*
- Region-Kernel-Based Support Vector Machines for Hyperspectral Image Classification. *Peng, J.*, +, *TGRS Sept. 2015 4810-4824*
- Rotational Pixel Swapping Method for Detection of Circular Features in Binary Images. *Yamamoto, S.*, +, *TGRS Feb. 2015 710-723*
- Semisupervised Hyperspectral Classification Using Task-Driven Dictionary Learning With Laplacian Regularization. *Wang, Z.*, +, *TGRS March 2015 1161-1173*
- Semisupervised Transfer Component Analysis for Domain Adaptation in Remote Sensing Image Classification. *Matasci, G.*, +, *TGRS July 2015 3550-3564*
- Sequential Spectral Change Vector Analysis for Iteratively Discovering and Detecting Multiple Changes in Hyperspectral Images. *Liu, S.*, +, *TGRS Aug. 2015 4363-4378*
- Simulation of Airborne Radiometric Detection of Wake Vortices. *Daniels, T.*, +, *TGRS Dec. 2015 6336-6343*
- Simultaneous Sparse Graph Embedding for Hyperspectral Image Classification. *Xue, Z.*, +, *TGRS Nov. 2015 6114-6133*
- Sparse Unmixing of Hyperspectral Data Using Spectral *A Priori* Information. *Tang, W.*, +, *TGRS Feb. 2015 770-783*
- Spatial-Aware Dictionary Learning for Hyperspectral Image Classification. *Soltani-Farani, A.*, +, *TGRS Jan. 2015 527-541*
- Spectral and Spatial Classification of Hyperspectral Images Based on ICA and Reduced Morphological Attribute Profiles. *Falco, N.*, +, *TGRS Nov. 2015 6223-6240*
- Spectral Image Unmixing From Optimal Coded-Aperture Compressive Measurements. *Ramirez, A.*, +, *TGRS Jan. 2015 405-415*
- Spectral-Spatial Classification for Hyperspectral Data Using Rotation Forests With Local Feature Extraction and Markov Random Fields. *Xia, J.*, +, *TGRS May 2015 2532-2546*
- Spectral-Spatial Classification of Hyperspectral Data via Morphological Component Analysis-Based Image Separation. *Xue, Z.*, +, *TGRS Jan. 2015 70-84*

- Spectral–Spatial Classification of Hyperspectral Images via Spatial Translation-Invariant Wavelet-Based Sparse Representation. *He, L., +, TGRS May 2015 2696-2712*
- Spectral–Spatial Classification of Hyperspectral Images With a Superpixel-Based Discriminative Sparse Model. *Fang, L., +, TGRS Aug. 2015 4186-4201*
- Spectral–Spatial Kernel Regularized for Hyperspectral Image Denoising. *Yuan, Y., +, TGRS July 2015 3815-3832*
- Substance Dependence Constrained Sparse NMF for Hyperspectral Unmixing. *Yuan, Y., +, TGRS June 2015 2975-2986*
- Super-Resolution of Hyperspectral Images: Use of Optimum Wavelet Filter Coefficients and Sparsity Regularization. *Patel, R.C., +, TGRS April 2015 1728-1736*
- Supervised Spectral–Spatial Hyperspectral Image Classification With Weighted Markov Random Fields. *Sun, L., +, TGRS March 2015 1490-1503*
- Task-Driven Dictionary Learning for Hyperspectral Image Classification With Structured Sparsity Constraints. *Sun, X., +, TGRS Aug. 2015 4457-4471*

I

Ice

- A System for the Automatic Classification of Ice Sheet Subsurface Targets in Radar Sounder Data. *Ilisei, A., +, TGRS June 2015 3260-3277*
- Characterizing Snowpack and the Freeze–Thaw State of Underlying Soil via Assimilation of Multifrequency Passive/Active Microwave Data: A Case Study (NASA CLPX 2003). *Bateni, S.M., +, TGRS Jan. 2015 173-189*
- Direction-of-Arrival Estimation for Radar Ice Sounding Surface Clutter Suppression. *Nielsen, U., +, TGRS Sept. 2015 5170-5179*
- RES Signatures of Ice Bottom Near to Dome C (Antarctica). *Urbini, S., +, TGRS March 2015 1558-1564*

Image capture

- Spectral Image Unmixing From Optimal Coded-Aperture Compressive Measurements. *Ramirez, A., +, TGRS Jan. 2015 405-415*

Image classification

- A Fast Classification Scheme in Raman Spectroscopy for the Identification of Mineral Mixtures Using a Large Database With Correlated Predictors. *Cochrane, C.J., +, TGRS Aug. 2015 4259-4274*
- A Novel Active Learning Method in Relevance Feedback for Content-Based Remote Sensing Image Retrieval. *Demir, B., +, TGRS May 2015 2323-2334*
- A Novel Feature Selection Approach Based on FODPSO and SVM. *Ghamisi, P., +, TGRS May 2015 2935-2947*
- A Novel Graph-Matching-Based Approach for Domain Adaptation in Classification of Remote Sensing Image Pair. *Banerjee, B., +, TGRS July 2015 4045-4062*
- A Novel MKL Model of Integrating LiDAR Data and MSI for Urban Area Classification. *Gu, Y., +, TGRS Oct. 2015 5312-5326*
- A Semiautomated Probabilistic Framework for Tree-Cover Delineation From 1-m NAIP Imagery Using a High-Performance Computing Architecture. *Basu, S., +, TGRS Oct. 2015 5690-5708*
- A Survey on Spectral–Spatial Classification Techniques Based on Attribute Profiles. *Ghamisi, P., +, TGRS May 2015 2335-2353*
- A System for the Automatic Classification of Ice Sheet Subsurface Targets in Radar Sounder Data. *Ilisei, A., +, TGRS June 2015 3260-3277*
- Active Learning With Gaussian Process Classifier for Hyperspectral Image Classification. *Sun, S., +, TGRS April 2015 1746-1760*
- Analysis of Oblique Aerial Images for Land Cover and Point Cloud Classification in an Urban Environment. *Rau, J., +, TGRS March 2015 1304-1319*
- Band-Specific Shearlet-Based Hyperspectral Image Noise Reduction. *Karami, A., +, TGRS Sept. 2015 5054-5066*
- Change-Detection Map Learning Using Matching Pursuit. *Li, Y., +, TGRS Aug. 2015 4712-4723*
- Class-Dependent Sparse Representation Classifier for Robust Hyperspectral Image Classification. *Cui, M., +, TGRS May 2015 2683-2695*
- Classification of Hyperspectral Images by Exploiting Spectral–Spatial Information of Superpixel via Multiple Kernels. *Fang, L., +, TGRS Dec. 2015 6663-6674*
- Classification of Remotely Sensed Images Using the GeneSIS Fuzzy Segmentation Algorithm. *Mylonas, S.K., +, TGRS Oct. 2015 5352-5376*
- Classifying Compound Structures in Satellite Images: A Compressed Representation for Fast Queries. *Gueguen, L., TGRS April 2015 1803-1818*

- Collaborative Active and Semisupervised Learning for Hyperspectral Remote Sensing Image Classification. *Wan, L., +, TGRS May 2015 2384-2396*
- Combination of H-Alpha Decomposition and Migration for Enhancing Subsurface Target Classification of GPR. *Feng, X., +, TGRS Sept. 2015 4852-4861*
- Complementarity of Discriminative Classifiers and Spectral Unmixing Techniques for the Interpretation of Hyperspectral Images. *Li, J., +, TGRS May 2015 2899-2912*
- Compressed-Domain Ship Detection on Spaceborne Optical Image Using Deep Neural Network and Extreme Learning Machine. *Tang, J., +, TGRS March 2015 1174-1185*
- Conditional Random Fields for Multitemporal and Multiscale Classification of Optical Satellite Imagery. *Hoberg, T., +, TGRS Feb. 2015 659-673*
- Contextual and Hierarchical Classification of Satellite Images Based on Cellular Automata. *Espinola, M., +, TGRS Feb. 2015 795-809*
- Contributions to Automatic Target Recognition Systems for Underwater Mine Classification. *Fei, T., +, TGRS Jan. 2015 505-518*
- Detail-Preserving Smoothing Classifier Based on Conditional Random Fields for High Spatial Resolution Remote Sensing Imagery. *Zhao, J., +, TGRS May 2015 2440-2452*
- Detection and Imaging of Ground Moving Targets With Real SAR Data. *Yang, J., +, TGRS Feb. 2015 920-932*
- Dimension Reduction Using Spatial and Spectral Regularized Local Discriminant Embedding for Hyperspectral Image Classification. *Zhou, Y., +, TGRS Feb. 2015 1082-1095*
- Dimensionality Reduction of Hyperspectral Images With Sparse Discriminant Embedding. *Huang, H., +, TGRS Sept. 2015 5160-5169*
- Domain Adaptation for Remote Sensing Image Classification: A Low-Rank Reconstruction and Instance Weighting Label Propagation Inspired Algorithm. *Shi, Q., +, TGRS Oct. 2015 5677-5689*
- Efficient Superpixel-Level Multitask Joint Sparse Representation for Hyperspectral Image Classification. *Li, J., +, TGRS Oct. 2015 5338-5351*
- Extended Random Walker-Based Classification of Hyperspectral Images. *Kang, X., +, TGRS Jan. 2015 144-153*
- Extraction of Vehicle Groups in Airborne Lidar Point Clouds With Two-Level Point Processes. *Borcs, A., +, TGRS March 2015 1475-1489*
- Fast Unsupervised Seafloor Characterization in Sonar Imagery Using Lacunarity. *Williams, D.P., TGRS Nov. 2015 6022-6034*
- Features, Color Spaces, and Boosting: New Insights on Semantic Classification of Remote Sensing Images. *Tokarczyk, P., +, TGRS Jan. 2015 280-295*
- Gabor Feature-Based Collaborative Representation for Hyperspectral Imagery Classification. *Jia, S., +, TGRS Feb. 2015 1118-1129*
- Hyperspectral Band Selection by Multitask Sparsity Pursuit. *Yuan, Y., +, TGRS Feb. 2015 631-644*
- Hyperspectral Image Classification Based on Three-Dimensional Scattering Wavelet Transform. *Tang, Y.Y., +, TGRS May 2015 2467-2480*
- Improving the Spatial Resolution of Landsat TM/ETM+ Through Fusion With SPOT5 Images via Learning-Based Super-Resolution. *Song, H., +, TGRS March 2015 1195-1204*
- Intrinsic Image Decomposition for Feature Extraction of Hyperspectral Images. *Kang, X., +, TGRS April 2015 2241-2253*
- Iterative Hyperspectral Image Classification Using Spectral–Spatial Relational Features. *Guccione, P., +, TGRS July 2015 3615-3627*
- Learning High-level Features for Satellite Image Classification With Limited Labeled Samples. *Yang, W., +, TGRS Aug. 2015 4472-4482*
- Linear Spectral Mixture Analysis via Multiple-Kernel Learning for Hyperspectral Image Classification. *Liu, K., +, TGRS April 2015 2254-2269*
- Local Binary Patterns and Extreme Learning Machine for Hyperspectral Imagery Classification. *Li, W., +, TGRS July 2015 3681-3693*
- Local-Manifold-Learning-Based Graph Construction for Semisupervised Hyperspectral Image Classification. *Ma, L., +, TGRS May 2015 2832-2844*
- Marker-Controlled Watershed-Based Segmentation of Multiresolution Remote Sensing Images. *Gaetano, R., +, TGRS June 2015 2987-3004*
- Multiple Feature Learning for Hyperspectral Image Classification. *Li, J., +, TGRS March 2015 1592-1606*
- Normalization of TanDEM-X DSM Data in Urban Environments With Morphological Filters. *Geiss, C., +, TGRS Aug. 2015 4348-4362*
- Object-Based Unsupervised Classification of VHR Panchromatic Satellite Images by Combining the HDP and IBP on Multiple Scenes. *Shu, Y., +, TGRS Nov. 2015 6148-6162*
- Pattern-Based Assessment of Land Cover Change on Continental Scale With Application to NLCD 2001–2006. *Netzel, P., +, TGRS April 2015 1773-1781*

- Pyramid of Spatial Relations for Scene-Level Land Use Classification. *Chen, S.*, +, *TGRS April 2015 1947-1957*
- Random Subspace Ensembles for Hyperspectral Image Classification With Extended Morphological Attribute Profiles. *Xia, J.*, +, *TGRS Sept. 2015 4768-4786*
- Region-Kernel-Based Support Vector Machines for Hyperspectral Image Classification. *Peng, J.*, +, *TGRS Sept. 2015 4810-4824*
- Robust Rooftop Extraction From Visible Band Images Using Higher Order CRF. *Li, E.*, +, *TGRS Aug. 2015 4483-4495*
- Saliency-Guided Unsupervised Feature Learning for Scene Classification. *Zhang, F.*, +, *TGRS April 2015 2175-2184*
- Scene Classification Based on the Multifeature Fusion Probabilistic Topic Model for High Spatial Resolution Remote Sensing Imagery. *Zhong, Y.*, +, *TGRS Nov. 2015 6207-6222*
- Semisupervised Hyperspectral Classification Using Task-Driven Dictionary Learning With Laplacian Regularization. *Wang, Z.*, +, *TGRS March 2015 1161-1173*
- Semisupervised Transfer Component Analysis for Domain Adaptation in Remote Sensing Image Classification. *Matasci, G.*, +, *TGRS July 2015 3550-3564*
- Simultaneous Sparse Graph Embedding for Hyperspectral Image Classification. *Xue, Z.*, +, *TGRS Nov. 2015 6114-6133*
- Spatial-Aware Dictionary Learning for Hyperspectral Image Classification. *Soltani-Farani, A.*, +, *TGRS Jan. 2015 527-541*
- Spatiotemporal Detection and Analysis of Urban Villages in Mega City Regions of China Using High-Resolution Remotely Sensed Imagery. *Huang, X.*, +, *TGRS July 2015 3639-3657*
- Spectral and Spatial Classification of Hyperspectral Images Based on ICA and Reduced Morphological Attribute Profiles. *Falco, N.*, +, *TGRS Nov. 2015 6223-6240*
- Spectral-Spatial Classification for Hyperspectral Data Using Rotation Forests With Local Feature Extraction and Markov Random Fields. *Xia, J.*, +, *TGRS May 2015 2532-2546*
- Spectral-Spatial Classification of Hyperspectral Data via Morphological Component Analysis-Based Image Separation. *Xue, Z.*, +, *TGRS Jan. 2015 70-84*
- Spectral-Spatial Classification of Hyperspectral Images via Spatial Translation-Invariant Wavelet-Based Sparse Representation. *He, L.*, +, *TGRS May 2015 2696-2712*
- Spectral-Spatial Classification of Hyperspectral Images With a Superpixel-Based Discriminative Sparse Model. *Fang, L.*, +, *TGRS Aug. 2015 4186-4201*
- Superpixel-Based Graphical Model for Remote Sensing Image Mapping. *Zhang, G.*, +, *TGRS Nov. 2015 5861-5871*
- Supervised Spectral-Spatial Hyperspectral Image Classification With Weighted Markov Random Fields. *Sun, L.*, +, *TGRS March 2015 1490-1503*
- Task-Driven Dictionary Learning for Hyperspectral Image Classification With Structured Sparsity Constraints. *Sun, X.*, +, *TGRS Aug. 2015 4457-4471*
- Tensorial Independent Component Analysis-Based Feature Extraction for Polarimetric SAR Data Classification. *Tao, M.*, +, *TGRS May 2015 2481-2495*
- Time Reversal Imaging of Deeply Buried Targets Under Moderately Rough Surfaces Using Approximate Transmitted Fields. *Moghadasi, S.M.*, +, *TGRS July 2015 3897-3905*
- Urban Land Use Information Extraction Using the Ultrahigh-Resolution Chinese Airborne SAR Imagery. *Wu, W.*, +, *TGRS Oct. 2015 5583-5599*
- Image coding**
- Compressed-Domain Ship Detection on Spaceborne Optical Image Using Deep Neural Network and Extreme Learning Machine. *Tang, J.*, +, *TGRS March 2015 1174-1185*
- Compressive Hyperspectral Imaging via Sparse Tensor and Nonlinear Compressed Sensing. *Yang, S.*, +, *TGRS Nov. 2015 5943-5957*
- Extended Random Walker-Based Classification of Hyperspectral Images. *Kang, X.*, +, *TGRS Jan. 2015 144-153*
- HYCA: A New Technique for Hyperspectral Compressive Sensing. *Martin, G.*, +, *TGRS May 2015 2819-2831*
- Hyperspectral Image Denoising via Sparse Representation and Low-Rank Constraint. *Zhao, Y.*, +, *TGRS Jan. 2015 296-308*
- Interferometric Phase Image Estimation via Sparse Coding in the Complex Domain. *Hongxing, H.*, +, *TGRS May 2015 2587-2602*
- Multitask Sparse Nonnegative Matrix Factorization for Joint Spectral-Spatial Hyperspectral Imagery Denoising. *Ye, M.*, +, *TGRS May 2015 2621-2639*
- Simulation of ISAR Imaging for a Space Target and Reconstruction Under Sparse Sampling via Compressed Sensing. *Wang, F.*, +, *TGRS June 2015 3432-3441*
- Image color analysis**
- A New Framework for SAR Multitemporal Data RGB Representation: Rationale and Products. *Amitrano, D.*, +, *TGRS Jan. 2015 117-133*
- Analysis of Oblique Aerial Images for Land Cover and Point Cloud Classification in an Urban Environment. *Rau, J.*, +, *TGRS March 2015 1304-1319*
- Features, Color Spaces, and Boosting: New Insights on Semantic Classification of Remote Sensing Images. *Tokarczyk, P.*, +, *TGRS Jan. 2015 280-295*
- Hyperspectral Band Selection by Multitask Sparsity Pursuit. *Yuan, Y.*, +, *TGRS Feb. 2015 631-644*
- Image denoising**
- A Novel Subpixel Phase Correlation Method Using Singular Value Decomposition and Unified Random Sample Consensus. *Tong, X.*, +, *TGRS Aug. 2015 4143-4156*
- A Radon-Transform-Based Image Noise Filter—With Applications to Multibeam Bathymetry. *Landmark, K.*, +, *TGRS Nov. 2015 6252-6273*
- Adaptive Total Variation Regularization Based SAR Image Despeckling and Despeckling Evaluation Index. *Zhao, Y.*, +, *TGRS May 2015 2765-2774*
- Band-Specific Shearlet-Based Hyperspectral Image Noise Reduction. *Karami, A.*, +, *TGRS Sept. 2015 5054-5066*
- Hyperspectral Image Denoising via Sparse Representation and Low-Rank Constraint. *Zhao, Y.*, +, *TGRS Jan. 2015 296-308*
- Multitask Sparse Nonnegative Matrix Factorization for Joint Spectral-Spatial Hyperspectral Imagery Denoising. *Ye, M.*, +, *TGRS May 2015 2621-2639*
- NL-SAR: A Unified Nonlocal Framework for Resolution-Preserving (Pol)(In)SAR Denoising. *Deledalle, C.*, +, *TGRS April 2015 2021-2038*
- On Diverse Noises in Hyperspectral Unmixing. *Li, C.*, +, *TGRS Oct. 2015 5388-5402*
- Spectral-Spatial Kernel Regularized for Hyperspectral Image Denoising. *Yuan, Y.*, +, *TGRS July 2015 3815-3832*
- Image filtering**
- An Imaging Compensation Algorithm for Correcting the Impact of Tropospheric Delay on Spaceborne High-Resolution SAR. *Yu, Z.*, +, *TGRS Sept. 2015 4825-4836*
- Normalization of TanDEM-X DSM Data in Urban Environments With Morphological Filters. *Geiss, C.*, +, *TGRS Aug. 2015 4348-4362*
- Image fusion**
- A Convex Formulation for Hyperspectral Image Superresolution via Subspace-Based Regularization. *Simoes, M.*, +, *TGRS June 2015 3373-3388*
- A Critical Comparison Among Pansharpening Algorithms. *Vivone, G.*, +, *TGRS May 2015 2565-2586*
- A Multivariate Empirical Mode Decomposition-Based Approach to Pansharpening. *Abdullah, S.M.U.*, +, *TGRS July 2015 3974-3984*
- A Technique for Simultaneous Visualization and Segmentation of Hyperspectral Data. *Meka, A.*, +, *TGRS April 2015 1707-1717*
- An Edge Preserving Multiresolution Fusion: Use of Contourlet Transform and MRF Prior. *Upla, K.P.*, +, *TGRS June 2015 3210-3220*
- Classification of Remotely Sensed Images Using the GeneSIS Fuzzy Segmentation Algorithm. *Mylonas, S.K.*, +, *TGRS Oct. 2015 5352-5376*
- Contributions to Automatic Target Recognition Systems for Underwater Mine Classification. *Fei, T.*, +, *TGRS Jan. 2015 505-518*
- Full-Scale Assessment of Pansharpening Through Polynomial Fitting of Multiscale Measurements. *Carla, R.*, +, *TGRS Dec. 2015 6344-6355*
- Hyperspectral and Multispectral Image Fusion Based on a Sparse Representation. *Wei, Q.*, +, *TGRS July 2015 3658-3668*
- Improving the Spatial Resolution of Landsat TM/ETM+ Through Fusion With SPOT5 Images via Learning-Based Super-Resolution. *Song, H.*, +, *TGRS March 2015 1195-1204*
- Intrinsic Image Decomposition for Feature Extraction of Hyperspectral Images. *Kang, X.*, +, *TGRS April 2015 2241-2253*
- Local Binary Patterns and Extreme Learning Machine for Hyperspectral Imagery Classification. *Li, W.*, +, *TGRS July 2015 3681-3693*
- Model-Based Fusion of Multi- and Hyperspectral Images Using PCA and Wavelets. *Palsson, F.*, +, *TGRS May 2015 2652-2663*
- Multiangule BSAR Imaging Based on BeiDou-2 Navigation Satellite System: Experiments and Preliminary Results. *Zeng, T.*, +, *TGRS Oct. 2015 5760-5773*

Nonparametric Image Registration of Airborne LiDAR, Hyperspectral and Photographic Imagery of Wooded Landscapes. *Lee, J.*, +, *TGRS Nov. 2015 6073-6084*

Pansharpening of Multispectral Images Based on Nonlocal Parameter Optimization. *Garzelli, A.*, *TGRS April 2015 2096-2107*

Scene Classification Based on the Multifeature Fusion Probabilistic Topic Model for High Spatial Resolution Remote Sensing Imagery. *Zhong, Y.*, +, *TGRS Nov. 2015 6207-6222*

Spatiotemporal Data Fusion Using Temporal High-Pass Modulation and Edge Primitives. *Malleswara Rao, J.*, +, *TGRS Nov. 2015 5853-5860*

Spectral and Spatial Classification of Hyperspectral Images Based on ICA and Reduced Morphological Attribute Profiles. *Falco, N.*, +, *TGRS Nov. 2015 6223-6240*

Superpixel-Based Graphical Model for Remote Sensing Image Mapping. *Zhang, G.*, +, *TGRS Nov. 2015 5861-5871*

Image matching

An Approach to Fine Coregistration Between Very High Resolution Multispectral Images Based on Registration Noise Distribution. *Han, Y.*, +, *TGRS Dec. 2015 6650-6662*

Analysis of Oblique Aerial Images for Land Cover and Point Cloud Classification in an Urban Environment. *Rau, J.*, +, *TGRS March 2015 1304-1319*

Automated Generation of a Digital Elevation Model Over Steep Terrain in Antarctica From High-Resolution Satellite Imagery. *Lee, C.*, +, *TGRS March 2015 1186-1194*

Change Detection in Constellations of Buried Objects Extracted From Ground-Penetrating Radar Data. *Paglieroni, D.W.*, +, *TGRS May 2015 2426-2439*

Elite Chemical Reaction Optimization for Contour-Based Target Recognition in Aerial Images. *Duan, H.*, +, *TGRS May 2015 2845-2859*

LiDAR Strip Adjustment Using Multifeatures Matched With Aerial Images. *Zhang, Y.*, +, *TGRS Feb. 2015 976-987*

Remote Sensing Image Matching Based on Adaptive Binning SIFT Descriptor. *Sedaghat, A.*, +, *TGRS Oct. 2015 5283-5293*

Robust Feature Matching for Remote Sensing Image Registration via Locally Linear Transforming. *Ma, J.*, +, *TGRS Dec. 2015 6469-6481*

Spectral-Spatial Classification of Hyperspectral Images With a Superpixel-Based Discriminative Sparse Model. *Fang, L.*, +, *TGRS Aug. 2015 4186-4201*

The Illumination Robustness of Phase Correlation for Image Alignment. *Wan, X.*, +, *TGRS Oct. 2015 5746-5759*

Image motion analysis

Aerial Image Registration for Tracking. *Linger, M.E.*, +, *TGRS April 2015 2137-2145*

Image processing

Dimensionality Reduction of Hyperspectral Images With Sparse Discriminant Embedding. *Huang, H.*, +, *TGRS Sept. 2015 5160-5169*

Learning High-level Features for Satellite Image Classification With Limited Labeled Samples. *Yang, W.*, +, *TGRS Aug. 2015 4472-4482*

Linear Spectral Mixture Analysis via Multiple-Kernel Learning for Hyperspectral Image Classification. *Liu, K.*, +, *TGRS April 2015 2254-2269*

Minimum Volume Simplex Analysis: A Fast Algorithm for Linear Hyperspectral Unmixing. *Li, J.*, +, *TGRS Sept. 2015 5067-5082*

Novel Two-Dimensional Singular Spectrum Analysis for Effective Feature Extraction and Data Classification in Hyperspectral Imaging. *Zabalza, J.*, +, *TGRS Aug. 2015 4418-4433*

Pansharpening With Multiscale Normalized Nonlocal Means Filter: A Two-Step Approach. *Yin, H.*, +, *TGRS Oct. 2015 5734-5745*

S2eteS: An End-to-End Modeling Tool for the Simulation of Sentinel-2 Image Products. *Segl, K.*, +, *TGRS Oct. 2015 5560-5571*

Self-Calibration Adjustment of CBERS-02B Long-Strip Imagery. *Zheng, M.*, +, *TGRS July 2015 3847-3854*

Task-Driven Dictionary Learning for Hyperspectral Image Classification With Structured Sparsity Constraints. *Sun, X.*, +, *TGRS Aug. 2015 4457-4471*

Image recognition

Hyperspectral Band Selection Based on Rough Set. *Patra, S.*, +, *TGRS Oct. 2015 5495-5503*

Semiautomated Extraction of Street Light Poles From Mobile LiDAR Point-Clouds. *Yu, Y.*, +, *TGRS March 2015 1374-1386*

Image reconstruction

A Fast Radial Scanned Near-Field 3-D SAR Imaging System and the Reconstruction Method. *Li, Z.*, +, *TGRS March 2015 1355-1363*

Analysis of Interactions Among Two Tropical Depressions and Typhoons Tembin and Bolaven (2012) in Pacific Ocean by Using Satellite Cloud Images. *Liu, J.*, +, *TGRS March 2015 1394-1402*

Domain Adaptation for Remote Sensing Image Classification: A Low-Rank Reconstruction and Instance Weighting Label Propagation Inspired Algorithm. *Shi, Q.*, +, *TGRS Oct. 2015 5677-5689*

Effect of the Polarization Leakage on the SMOS Image Reconstruction Algorithm: Validation Using Ocean Model and *In Situ* Soil Moisture Data. *Khazaal, A.*, +, *TGRS Sept. 2015 4961-4971*

Ground Moving Target Trajectory Reconstruction in Single-Channel Circular SAR. *Poisson, J.*, +, *TGRS April 2015 1976-1984*

HYCA: A New Technique for Hyperspectral Compressive Sensing. *Martin, G.*, +, *TGRS May 2015 2819-2831*

Minimum-Entropy-Based Adaptive Focusing Algorithm for Image Reconstruction of Terahertz Single-Frequency Holography With Improved Depth of Focus. *Sun, Z.*, +, *TGRS Jan. 2015 519-526*

MTF-Adjusted Pansharpening Approach Based on Coupled Multiresolution Decompositions. *Kallel, A.*, *TGRS June 2015 3124-3145*

Reconstruction of Coherent Pairs of Synthetic Aperture Radar Data Acquired in Interrupted Mode. *Pinheiro, M.*, +, *TGRS April 2015 1876-1893*

Robust Reconstruction of Building Facades for Large Areas Using Spaceborne TomoSAR Point Clouds. *Shahzad, M.*, +, *TGRS Feb. 2015 752-769*

Simulation of ISAR Imaging for a Space Target and Reconstruction Under Sparse Sampling via Compressed Sensing. *Wang, F.*, +, *TGRS June 2015 3432-3441*

Spectral Image Unmixing From Optimal Coded-Aperture Compressive Measurements. *Ramirez, A.*, +, *TGRS Jan. 2015 405-415*

Wall Clutter Mitigation Using Discrete Prolate Spheroidal Sequences for Sparse Reconstruction of Indoor Stationary Scenes. *Ahmad, F.*, +, *TGRS March 2015 1549-1557*

Image registration

A Novel Subpixel Phase Correlation Method Using Singular Value Decomposition and Unified Random Sample Consensus. *Tong, X.*, +, *TGRS Aug. 2015 4143-4156*

A WTLS-Based Method for Remote Sensing Imagery Registration. *Wu, T.*, +, *TGRS Jan. 2015 102-116*

Aerial Image Registration for Tracking. *Linger, M.E.*, +, *TGRS April 2015 2137-2145*

An Approach to Fine Coregistration Between Very High Resolution Multispectral Images Based on Registration Noise Distribution. *Han, Y.*, +, *TGRS Dec. 2015 6650-6662*

Automatic Optical-to-SAR Image Registration by Iterative Line Extraction and Voronoi Integrated Spectral Point Matching. *Sui, H.*, +, *TGRS Nov. 2015 6058-6072*

Change-Detection Map Learning Using Matching Pursuit. *Li, Y.*, +, *TGRS Aug. 2015 4712-4723*

Extension of the Linear Chromodynamics Model for Spectral Change Detection in the Presence of Residual Spatial Misregistration. *Vongsvy, K.*, +, *TGRS June 2015 3005-3021*

Nonparametric Image Registration of Airborne LiDAR, Hyperspectral and Photographic Imagery of Wooded Landscapes. *Lee, J.*, +, *TGRS Nov. 2015 6073-6084*

Robust Feature Matching for Remote Sensing Image Registration via Locally Linear Transforming. *Ma, J.*, +, *TGRS Dec. 2015 6469-6481*

SAR-SIFT: A SIFT-Like Algorithm for SAR Images. *Dellinger, F.*, +, *TGRS Jan. 2015 453-466*

Systematic Error Compensation Based on a Rational Function Model for Ziyuan1-02C. *Jiang, Y.*, +, *TGRS July 2015 3985-3995*

Image representation

A Novel Active Learning Method in Relevance Feedback for Content-Based Remote Sensing Image Retrieval. *Demir, B.*, +, *TGRS May 2015 2323-2334*

Aerial Image Registration for Tracking. *Linger, M.E.*, +, *TGRS April 2015 2137-2145*

Class-Dependent Sparse Representation Classifier for Robust Hyperspectral Image Classification. *Cui, M.*, +, *TGRS May 2015 2683-2695*

Classification of Remotely Sensed Images Using the GeneSIS Fuzzy Segmentation Algorithm. *Mylonas, S.K.*, +, *TGRS Oct. 2015 5352-5376*

Collaborative Representation for Hyperspectral Anomaly Detection. *Li, W.*, +, *TGRS March 2015 1463-1474*

Efficient Superpixel-Level Multitask Joint Sparse Representation for Hyperspectral Image Classification. *Li, J.*, +, *TGRS Oct. 2015 5338-5351*

Gabor Feature-Based Collaborative Representation for Hyperspectral Image Classification. *Jia, S.*, +, *TGRS Feb. 2015 1118-1129*

- Hyperspectral Band Selection by Multitask Sparsity Pursuit. *Yuan, Y.*, +, *TGRS Feb. 2015 631-644*
- Hyperspectral Image Denoising via Sparse Representation and Low-Rank Constraint. *Zhao, Y.*, +, *TGRS Jan. 2015 296-308*
- Low-Rank Subspace Representation for Estimating the Number of Signal Subspaces in Hyperspectral Imagery. *Sumarsono, A.*, +, *TGRS Nov. 2015 6286-6292*
- Simultaneous Sparse Graph Embedding for Hyperspectral Image Classification. *Xue, Z.*, +, *TGRS Nov. 2015 6114-6133*
- Spectral–Spatial Classification of Hyperspectral Data via Morphological Component Analysis-Based Image Separation. *Xue, Z.*, +, *TGRS Jan. 2015 70-84*
- Spectral–Spatial Classification of Hyperspectral Images via Spatial Translation-Invariant Wavelet-Based Sparse Representation. *He, L.*, +, *TGRS May 2015 2696-2712*
- Spectral–Spatial Classification of Hyperspectral Images With a Superpixel-Based Discriminative Sparse Model. *Fang, L.*, +, *TGRS Aug. 2015 4186-4201*
- Tensorial Independent Component Analysis-Based Feature Extraction for Polarimetric SAR Data Classification. *Tao, M.*, +, *TGRS May 2015 2481-2495*

Image resolution

- A Critical Comparison Among Pansharpening Algorithms. *Vivone, G.*, +, *TGRS May 2015 2565-2586*
- A High-Order Imaging Algorithm for High-Resolution Spaceborne SAR Based on a Modified Equivalent Squint Range Model. *Wang, P.*, +, *TGRS March 2015 1225-1235*
- A Multivariate Empirical Mode Decomposition-Based Approach to Pansharpening. *Abdullah, S.M.U.*, +, *TGRS July 2015 3974-3984*
- A Novel Graph-Matching-Based Approach for Domain Adaptation in Classification of Remote Sensing Image Pair. *Banerjee, B.*, +, *TGRS July 2015 4045-4062*
- A WTLS-Based Method for Remote Sensing Imagery Registration. *Wu, T.*, +, *TGRS Jan. 2015 102-116*
- An Imaging Compensation Algorithm for Correcting the Impact of Tropospheric Delay on Spaceborne High-Resolution SAR. *Yu, Z.*, +, *TGRS Sept. 2015 4825-4836*
- Analysis of Multistatic Pixel Correlation in SAR. *Duersch, M.I.*, +, *TGRS Jan. 2015 362-374*
- Characterization of Facade Regularities in High-Resolution SAR Images. *Auer, S.*, +, *TGRS May 2015 2727-2737*
- Complementarity of Discriminative Classifiers and Spectral Unmixing Techniques for the Interpretation of Hyperspectral Images. *Li, J.*, +, *TGRS May 2015 2899-2912*
- Conditional Random Fields for Multitemporal and Multiscale Classification of Optical Satellite Imagery. *Hoberg, T.*, +, *TGRS Feb. 2015 659-673*
- Extracting Man-Made Objects From High Spatial Resolution Remote Sensing Images via Fast Level Set Evolutions. *Li, Z.*, +, *TGRS Feb. 2015 883-899*
- Features, Color Spaces, and Boosting: New Insights on Semantic Classification of Remote Sensing Images. *Tokarczyk, P.*, +, *TGRS Jan. 2015 280-295*
- Hierarchical Clustering of Hyperspectral Images Using Rank-Two Nonnegative Matrix Factorization. *Gillis, N.*, +, *TGRS April 2015 2066-2078*
- Improving the Spatial Resolution of Landsat TM/ETM+ Through Fusion With SPOT5 Images via Learning-Based Super-Resolution. *Song, H.*, +, *TGRS March 2015 1195-1204*
- Indicator Cokriging-Based Subpixel Mapping Without Prior Spatial Structure Information. *Wang, Q.*, +, *TGRS Jan. 2015 309-323*
- Local Binary Patterns and Extreme Learning Machine for Hyperspectral Imagery Classification. *Li, W.*, +, *TGRS July 2015 3681-3693*
- MTF-Adjusted Pansharpening Approach Based on Coupled Multiresolution Decompositions. *Kallel, A.*, *TGRS June 2015 3124-3145*
- Object-Based Unsupervised Classification of VHR Panchromatic Satellite Images by Combining the HDP and IBP on Multiple Scenes. *Shu, Y.*, +, *TGRS Nov. 2015 6148-6162*
- OFDM Synthetic Aperture Radar Imaging With Sufficient Cyclic Prefix. *Zhang, T.*, +, *TGRS Jan. 2015 394-404*
- Processing of Monostatic SAR Data With General Configurations. *Tang, S.*, +, *TGRS Dec. 2015 6529-6546*
- Reduced Image Aliasing With Microwave Radiometers and Weather Radar Through Windowed Spatial Averaging. *McLinden, M.L.*, +, *TGRS Dec. 2015 6639-6649*
- Robust Clutter Suppression and Moving Target Imaging Approach for Multichannel in Azimuth High-Resolution and Wide-Swath Synthetic Aperture Radar. *Zhang, S.*, +, *TGRS Feb. 2015 687-709*
- Robust Reconstruction of Building Facades for Large Areas Using Spaceborne TomoSAR Point Clouds. *Shahzad, M.*, +, *TGRS Feb. 2015 752-769*
- Spaceborne MIMO Synthetic Aperture Radar for Multimodal Operation. *Kim, J.*, +, *TGRS May 2015 2453-2466*
- Spatiotemporal Data Fusion Using Temporal High-Pass Modulation and Edge Primitives. *Malleswara Rao, J.*, +, *TGRS Nov. 2015 5853-5860*
- Spatiotemporal Detection and Analysis of Urban Villages in Mega City Regions of China Using High-Resolution Remotely Sensed Imagery. *Huang, X.*, +, *TGRS July 2015 3639-3657*
- Stable Mean-Shift Algorithm and Its Application to the Segmentation of Arbitrarily Large Remote Sensing Images. *Michel, J.*, +, *TGRS Feb. 2015 952-964*
- Time Reversal Imaging of Deeply Buried Targets Under Moderately Rough Surfaces Using Approximate Transmitted Fields. *Moghadasi, S.M.*, +, *TGRS July 2015 3897-3905*
- Toward Evaluating Multiscale Segmentations of High Spatial Resolution Remote Sensing Images. *Zhang, X.*, +, *TGRS July 2015 3694-3706*
- Two-Stage Change Detection for Synthetic Aperture Radar. *Cha, M.*, +, *TGRS Dec. 2015 6547-6560*
- Ultrawideband Synthetic Aperture Radar for Respiratory Motion Detection. *Chen, T.*, +, *TGRS July 2015 3749-3763*

Image restoration

- A Radon-Transform-Based Image Noise Filter—With Applications to Multibeam Bathymetry. *Landmark, K.*, +, *TGRS Nov. 2015 6252-6273*
- Adaptive Total Variation Regularization Based SAR Image Despeckling and Despeckling Evaluation Index. *Zhao, Y.*, +, *TGRS May 2015 2765-2774*
- Interferometric Phase Image Estimation via Sparse Coding in the Complex Domain. *Hongxing, H.*, +, *TGRS May 2015 2587-2602*
- Minimum-Entropy-Based Adaptive Focusing Algorithm for Image Reconstruction of Terahertz Single-Frequency Holography With Improved Depth of Focus. *Sun, Z.*, +, *TGRS Jan. 2015 519-526*
- Missing Data and Regression Models for Spatial Images. *Zhang, J.*, +, *TGRS March 2015 1574-1582*
- MTSAT-1R Visible Imager Point Spread Function Correction, Part II: Theory. *Khlopenkov, K.V.*, +, *TGRS March 2015 1504-1512*

Image retrieval

- A Novel Active Learning Method in Relevance Feedback for Content-Based Remote Sensing Image Retrieval. *Demir, B.*, +, *TGRS May 2015 2323-2334*
- Simulation of Correlated Low-Grazing-Angle Sea Clutter Based on Phase Retrieval. *Wang, J.*, +, *TGRS July 2015 3917-3930*

Image sampling

- A Novel Active Learning Method in Relevance Feedback for Content-Based Remote Sensing Image Retrieval. *Demir, B.*, +, *TGRS May 2015 2323-2334*
- A Resample-Based SVA Algorithm for Sidelobe Reduction of SAR/ISAR Imagery With Noninteger Nyquist Sampling Rate. *Xiong, T.*, +, *TGRS Feb. 2015 1016-1028*
- Fast Statistically Homogeneous Pixel Selection for Covariance Matrix Estimation for Multitemporal InSAR. *Jiang, M.*, +, *TGRS March 2015 1213-1224*
- Features, Color Spaces, and Boosting: New Insights on Semantic Classification of Remote Sensing Images. *Tokarczyk, P.*, +, *TGRS Jan. 2015 280-295*
- Progressive Band Processing of Constrained Energy Minimization for Subpixel Detection. *Chang, C.*, +, *TGRS March 2015 1626-1637*
- Robust Clutter Suppression and Moving Target Imaging Approach for Multichannel in Azimuth High-Resolution and Wide-Swath Synthetic Aperture Radar. *Zhang, S.*, +, *TGRS Feb. 2015 687-709*
- Semisupervised Hyperspectral Classification Using Task-Driven Dictionary Learning With Laplacian Regularization. *Wang, Z.*, +, *TGRS March 2015 1161-1173*
- Synthesis of Fractal Surfaces for Remote-Sensing Applications. *Riccio, D.*, +, *TGRS July 2015 3803-3814*

Image segmentation

- A Scalable Tile-Based Framework for Region-Merging Segmentation. *Lassalle, P.*, +, *TGRS Oct. 2015 5473-5485*
- A Semiautomated Probabilistic Framework for Tree-Cover Delineation From 1-m NAIP Imagery Using a High-Performance Computing Architecture. *Basu, S.*, +, *TGRS Oct. 2015 5690-5708*
- A Technique for Simultaneous Visualization and Segmentation of Hyperspectral Data. *Meka, A.*, +, *TGRS April 2015 1707-1717*
- An Automatic \mathcal{U} -Distribution and Markov Random Field Segmentation Algorithm for PolSAR Images. *Doulgeris, A.P.*, *TGRS April 2015 1819-1827*

Classification of Hyperspectral Images by Exploiting Spectral–Spatial Information of Superpixel via Multiple Kernels. *Fang, L., +, TGRS Dec. 2015 6663-6674*

Classification of Remotely Sensed Images Using the GeneSIS Fuzzy Segmentation Algorithm. *Mylonas, S.K., +, TGRS Oct. 2015 5352-5376*

Classifying Compound Structures in Satellite Images: A Compressed Representation for Fast Queries. *Gueguen, L., TGRS April 2015 1803-1818*

Detail-Preserving Smoothing Classifier Based on Conditional Random Fields for High Spatial Resolution Remote Sensing Imagery. *Zhao, J., +, TGRS May 2015 2440-2452*

Fast Unsupervised Seafloor Characterization in Sonar Imagery Using Lacunarity. *Williams, D.P., TGRS Nov. 2015 6022-6034*

Hierarchical Conditional Random Fields Model for Semisupervised SAR Image Segmentation. *Zhang, P., +, TGRS Sept. 2015 4933-4951*

Marker-Controlled Watershed-Based Segmentation of Multiresolution Remote Sensing Images. *Gaetano, R., +, TGRS June 2015 2987-3004*

Multianglular BSAR Imaging Based on BeiDou-2 Navigation Satellite System: Experiments and Preliminary Results. *Zeng, T., +, TGRS Oct. 2015 5760-5773*

Object-Based Unsupervised Classification of VHR Panchromatic Satellite Images by Combining the HDP and IBP on Multiple Scenes. *Shu, Y., +, TGRS Nov. 2015 6148-6162*

Representation and Spatially Adaptive Segmentation for PolSAR Images Based on Wedgelet Analysis. *Liu, B., +, TGRS Sept. 2015 4797-4809*

Robust Rooftop Extraction From Visible Band Images Using Higher Order CRF. *Li, E., +, TGRS Aug. 2015 4483-4495*

Semiautomated Extraction of Street Light Poles From Mobile LiDAR Point-Clouds. *Yu, Y., +, TGRS March 2015 1374-1386*

Spectral–Spatial Classification of Hyperspectral Images With a Superpixel-Based Discriminative Sparse Model. *Fang, L., +, TGRS Aug. 2015 4186-4201*

Stable Mean-Shift Algorithm and Its Application to the Segmentation of Arbitrarily Large Remote Sensing Images. *Michel, J., +, TGRS Feb. 2015 952-964*

Superpixel-Based Graphical Model for Remote Sensing Image Mapping. *Zhang, G., +, TGRS Nov. 2015 5861-5871*

Toward Evaluating Multiscale Segmentations of High Spatial Resolution Remote Sensing Images. *Zhang, X., +, TGRS July 2015 3694-3706*

Image sensors

Fast Hyperspectral Anomaly Detection via High-Order 2-D Crossing Filter. *Yuan, Y., +, TGRS Feb. 2015 620-630*

Minimum-Entropy-Based Adaptive Focusing Algorithm for Image Reconstruction of Terahertz Single-Frequency Holography With Improved Depth of Focus. *Sun, Z., +, TGRS Jan. 2015 519-526*

On Detectability of a Ship's Kelvin Wake in Simulated SAR Images of Rough Sea Surface. *Zilman, G., +, TGRS Feb. 2015 609-619*

On-Orbit Characterization of S-NPP VIIRS Transmission Functions. *McIntire, J., +, TGRS May 2015 2354-2365*

Pansharpening Based on Semiblind Deconvolution. *Vivone, G., +, TGRS April 2015 1997-2010*

Spatial-Response Matched Filter and Its Application in Radiometric Accuracy Improvement of FY-2 Satellite Thermal Infrared Band. *Guo, Q., +, TGRS May 2015 2397-2408*

Systematic Error Compensation Based on a Rational Function Model for Ziyuan1-02C. *Jiang, Y., +, TGRS July 2015 3985-3995*

Image sequences

Atmospheric Effects Removal for the Infrared Image Sequences. *Ozsarac, S., +, TGRS Sept. 2015 4899-4909*

Corrections to “Automatic Sea-Surface Obstacle Detection and Tracking in Forward-Looking Sonar Image Sequences” [Aug 15 4661-4669]. *Karoui, L., +, TGRS Nov. 2015 6315*

Current Motion Tracking from Satellite Image Sequence With Global Similarity Optimization Model. *Chen, W., TGRS Feb. 2015 1008-1015*

Image texture

Features, Color Spaces, and Boosting: New Insights on Semantic Classification of Remote Sensing Images. *Tokarczyk, P., +, TGRS Jan. 2015 280-295*

Interval Edge Estimation in SAR Images. *Dias, L., +, TGRS Feb. 2015 851-861*

Local Binary Patterns and Extreme Learning Machine for Hyperspectral Imagery Classification. *Li, W., +, TGRS July 2015 3681-3693*

SAR Image Change Detection Based on Iterative Label-Information Composite Kernel Supervised by Anisotropic Texture. *Jia, L., +, TGRS July 2015 3960-3973*

Spectral–Spatial Classification of Hyperspectral Data via Morphological Component Analysis-Based Image Separation. *Xue, Z., +, TGRS Jan. 2015 70-84*

Texture-Based Automatic Separation of Echoes from Distributed Moving Targets in UWB Radar Signals. *Sakamoto, T., +, TGRS Jan. 2015 352-361*

Independent component analysis

An Abundance Characteristic-Based Independent Component Analysis for Hyperspectral Unmixing. *Wang, N., +, TGRS Jan. 2015 416-428*

Polarimetric Incoherent Target Decomposition by Means of Independent Component Analysis. *Besic, N., +, TGRS March 2015 1236-1247*

Tensorial Independent Component Analysis-Based Feature Extraction for Polarimetric SAR Data Classification. *Tao, M., +, TGRS May 2015 2481-2495*

Inference mechanisms

Contributions to Automatic Target Recognition Systems for Underwater Mine Classification. *Fei, T., +, TGRS Jan. 2015 505-518*

Information retrieval systems

A Fast Classification Scheme in Raman Spectroscopy for the Identification of Mineral Mixtures Using a Large Database With Correlated Predictors. *Cochrane, C.J., +, TGRS Aug. 2015 4259-4274*

Infrared astronomy

On-Orbit Characterization of S-NPP VIIRS Transmission Functions. *McIntire, J., +, TGRS May 2015 2354-2365*

Infrared detectors

On-Orbit Characterization of S-NPP VIIRS Transmission Functions. *McIntire, J., +, TGRS May 2015 2354-2365*

On-Orbit Radiometric Calibration of Suomi NPP VIIRS Reflective Solar Bands Through Observations of a Sunlit Solar Diffuser Panel. *Lei, N., +, TGRS Nov. 2015 5983-5990*

Prelaunch Radiometric Characterization and Calibration of the S-NPP VIIRS Sensor. *Oudrari, H., +, TGRS April 2015 2195-2210*

Infrared imaging

Analysis of Interactions Among Two Tropical Depressions and Typhoons Tembin and Bolaven (2012) in Pacific Ocean by Using Satellite Cloud Images. *Liu, J., +, TGRS March 2015 1394-1402*

Atmospheric Effects Removal for the Infrared Image Sequences. *Ozsarac, S., +, TGRS Sept. 2015 4899-4909*

Current Motion Tracking from Satellite Image Sequence With Global Similarity Optimization Model. *Chen, W., TGRS Feb. 2015 1008-1015*

On-Orbit Characterization of S-NPP VIIRS Transmission Functions. *McIntire, J., +, TGRS May 2015 2354-2365*

Terra and Aqua MODIS Thermal Emissive Bands On-Orbit Calibration and Performance. *Xiong, X., +, TGRS Oct. 2015 5709-5721*

Infrared spectra

The Radiometric Stability and Scaling of Collection 6 Terra- and Aqua-MODIS VIS, NIR, and SWIR Spectral Bands. *Doelling, D.R., +, TGRS Aug. 2015 4520-4535*

Infrared spectrometers

Emissivity and Temperature Assessment Using a Maximum Entropy Estimator: Structure and Performance of the MaxEntES Algorithm. *Barducci, A., +, TGRS Feb. 2015 738-751*

MAGI: A New High-Performance Airborne Thermal-Infrared Imaging Spectrometer for Earth Science Applications. *Hall, J.L., +, TGRS Oct. 2015 5447-5457*

Integral equations

A Global Sensitivity Analysis of Soil Parameters Associated With Backscattering Using the Advanced Integral Equation Model. *Ma, C., +, TGRS Oct. 2015 5613-5623*

A Novel Approximate Solution for Electromagnetic Scattering by Dielectric Disks. *Wang, L., +, TGRS May 2015 2948-2955*

A Simplified Formulation for Rough Surface Cross-Polarized Backscattering Under the Second-Order Small-Slope Approximation. *Guerin, C., +, TGRS Nov. 2015 6308-6314*

Detection and Quantification of Three-Dimensional Hydraulic Fractures With Horizontal Borehole Resistivity Measurements. *Yang, K., +, TGRS Aug. 2015 4605-4615*

Electromagnetic Wave Scattering Analysis From 2-D Periodic Rough Surfaces Using Complex Images Technique. *Barzegar-Parizi, S., +, TGRS Feb. 2015 862-868*

Interference suppression

A Resample-Based SVA Algorithm for Sidelobe Reduction of SAR/ISAR Imagery With Noninteger Nyquist Sampling Rate. *Xiong, T., +, TGRS Feb. 2015 1016-1028*

Adaptive Total Variation Regularization Based SAR Image Despeckling and Despeckling Evaluation Index. *Zhao, Y.*, +, *TGRS May 2015 2765-2774*

Adaptive-Window Polarimetric SAR Image Speckle Filtering Based on a Homogeneity Measurement. *Lang, F.*, +, *TGRS Oct. 2015 5435-5446*

Geometry-Information-Aided Efficient Radial Velocity Estimation for Moving Target Imaging and Location Based on Radon Transform. *Zhang, X.*, +, *TGRS Feb. 2015 1105-1117*

Robust Clutter Suppression and Moving Target Imaging Approach for Multichannel in Azimuth High-Resolution and Wide-Swath Synthetic Aperture Radar. *Zhang, S.*, +, *TGRS Feb. 2015 687-709*

Spectral-Spatial Classification of Hyperspectral Images via Spatial Translation-Invariant Wavelet-Based Sparse Representation. *He, L.*, +, *TGRS May 2015 2696-2712*

Spectral-Spatial Kernel Regularized for Hyperspectral Image Denoising. *Yuan, Y.*, +, *TGRS July 2015 3815-3832*

Interferometry

Improved EMCF-SBAS Processing Chain Based on Advanced Techniques for the Noise-Filtering and Selection of Small Baseline Multi-Look DInSAR Interferograms. *Pepe, A.*, +, *TGRS Aug. 2015 4394-4417*

Interpolation

A Resample-Based SVA Algorithm for Sidelobe Reduction of SAR/ISAR Imagery With Noninteger Nyquist Sampling Rate. *Xiong, T.*, +, *TGRS Feb. 2015 1016-1028*

Efficient Near-Field Imaging for Single-Borehole Radar With Widely Separated Transceivers. *Yang, H.*, +, *TGRS Oct. 2015 5327-5337*

Fast Subpixel Mapping Algorithms for Subpixel Resolution Change Detection. *Wang, Q.*, +, *TGRS April 2015 1692-1706*

Real-Time Atmospheric Correction of AVIRIS-NG Imagery. *Bue, B.D.*, +, *TGRS Dec. 2015 6419-6428*

Inter-symbol interference

OFDM Synthetic Aperture Radar Imaging With Sufficient Cyclic Prefix. *Zhang, T.*, +, *TGRS Jan. 2015 394-404*

Inverse problems

A Bayesian Network-Based Method to Alleviate the Ill-Posed Inverse Problem: A Case Study on Leaf Area Index and Canopy Water Content Retrieval. *Quan, X.*, +, *TGRS Dec. 2015 6507-6517*

Analysis of Reconstructions Obtained Solving l^p -Penalized Minimization Problems. *Lenti, F.*, +, *TGRS Sept. 2015 4876-4886*

Forest Height Estimation by Means of Pol-InSAR Data Inversion: The Role of the Vertical Wavenumber. *Kugler, F.*, +, *TGRS Oct. 2015 5294-5311*

Forward-Looking Ground-Penetrating Radar via a Linear Inverse Scattering Approach. *Catapano, I.*, +, *TGRS Oct. 2015 5624-5633*

Hyperspectral and Multispectral Image Fusion Based on a Sparse Representation. *Wei, Q.*, +, *TGRS July 2015 3658-3668*

Marine Electrical Sensing for Detecting Small Inhomogeneities. *Polydorides, N.*, +, *TGRS Feb. 2015 988-1000*

Model-Based Quantitative Cross-Borehole GPR Imaging via Virtual Experiments. *Di Donato, L.*, +, *TGRS Aug. 2015 4178-4185*

Multiplicative-Regularized FFT Twofold Subspace-Based Optimization Method for Inverse Scattering Problems. *Xu, K.*, +, *TGRS Feb. 2015 841-850*

Progressive Band Processing of Constrained Energy Minimization for Subpixel Detection. *Chang, C.*, +, *TGRS March 2015 1626-1637*

Shrunken Locally Linear Embedding for Passive Microwave Retrieval of Precipitation. *Ebtehaj, A.M.*, +, *TGRS July 2015 3720-3736*

Soil Moisture Estimation Under Tropical Forests Using UHF Radar Polarimetry. *Truong-Loi, M.*, +, *TGRS April 2015 1718-1727*

Temporal Orthogonal Projection Inversion for EMI Sensing of UXO. *Song, L.*, +, *TGRS Feb. 2015 1061-1072*

Three-Dimensional Scattering and Inverse Scattering from Objects With Simultaneous Permittivity and Permeability Contrasts. *Zhang, W.*, +, *TGRS Jan. 2015 429-439*

Inverse transforms

Efficient Near-Field Imaging for Single-Borehole Radar With Widely Separated Transceivers. *Yang, H.*, +, *TGRS Oct. 2015 5327-5337*

Multiplicative-Regularized FFT Twofold Subspace-Based Optimization Method for Inverse Scattering Problems. *Xu, K.*, +, *TGRS Feb. 2015 841-850*

Ionosphere

An Improvement of Ionospheric Phase Correction by Multiple-Aperture Interferometry. *Jung, H.*, +, *TGRS Sept. 2015 4952-4960*

Combination of Ground- and Space-Based Data to Establish a Global Ionospheric Grid Model. *Chen, P.*, +, *TGRS Feb. 2015 1073-1081*

The Impact of System Effects on Estimates of Faraday Rotation From Synthetic Aperture Radar Measurements. *Quegan, S.*, +, *TGRS Aug. 2015 4284-4298*

Ionospheric disturbances

Capabilities of BIOMASS Tomography for Investigating Tropical Forests. *Ho Tong Minh, D.*, +, *TGRS Feb. 2015 965-975*

Cubic Phase Distortion and Irregular Degradation on SAR Imaging Due to the Ionosphere. *Wang, C.*, +, *TGRS June 2015 3442-3451*

High-Latitude Ionospheric Irregularity Drift Velocity Estimation Using Spaced GPS Receiver Carrier Phase Time-Frequency Analysis. *Wang, J.*, +, *TGRS Nov. 2015 6099-6113*

Wuhan Ionospheric Oblique-Incidence Sounding System and Its New Application in Localization of Ionospheric Irregularities. *Shi, S.*, +, *TGRS April 2015 2185-2194*

Ionospheric electromagnetic wave propagation

Correcting Distortion of Polarimetric SAR Data Induced by Ionospheric Scintillation. *Kim, J.S.*, +, *TGRS Dec. 2015 6319-6335*

High-Latitude Ionospheric Irregularity Drift Velocity Estimation Using Spaced GPS Receiver Carrier Phase Time-Frequency Analysis. *Wang, J.*, +, *TGRS Nov. 2015 6099-6113*

The Impact of System Effects on Estimates of Faraday Rotation From Synthetic Aperture Radar Measurements. *Quegan, S.*, +, *TGRS Aug. 2015 4284-4298*

Wuhan Ionospheric Oblique-Incidence Sounding System and Its New Application in Localization of Ionospheric Irregularities. *Shi, S.*, +, *TGRS April 2015 2185-2194*

Ionospheric measuring apparatus

Wuhan Ionospheric Oblique-Incidence Sounding System and Its New Application in Localization of Ionospheric Irregularities. *Shi, S.*, +, *TGRS April 2015 2185-2194*

Ionospheric techniques

A New Ionosphere Tomography Algorithm With Two-Grid Virtual Observations Constraints and Three-Dimensional Velocity Profile. *Yao, Y.*, +, *TGRS May 2015 2373-2383*

A Worldwide Ionospheric Model for Fast Precise Point Positioning. *Rovira-Garcia, A.*, +, *TGRS Aug. 2015 4596-4604*

Correcting Distortion of Polarimetric SAR Data Induced by Ionospheric Scintillation. *Kim, J.S.*, +, *TGRS Dec. 2015 6319-6335*

Cubic Phase Distortion and Irregular Degradation on SAR Imaging Due to the Ionosphere. *Wang, C.*, +, *TGRS June 2015 3442-3451*

High-Latitude Ionospheric Irregularity Drift Velocity Estimation Using Spaced GPS Receiver Carrier Phase Time-Frequency Analysis. *Wang, J.*, +, *TGRS Nov. 2015 6099-6113*

Wuhan Ionospheric Oblique-Incidence Sounding System and Its New Application in Localization of Ionospheric Irregularities. *Shi, S.*, +, *TGRS April 2015 2185-2194*

Iterative methods

A Self-Adaptive Wavelet-Based Algorithm for Wave Measurement Using Nautical Radar. *An, J.*, +, *TGRS Jan. 2015 567-577*

A WTLS-Based Method for Remote Sensing Imagery Registration. *Wu, T.*, +, *TGRS Jan. 2015 102-116*

Automatic Spatial-Spectral Feature Selection for Hyperspectral Image via Discriminative Sparse Multimodal Learning. *Zhang, Q.*, +, *TGRS Jan. 2015 261-279*

Classification of Remotely Sensed Images Using the GeneSIS Fuzzy Segmentation Algorithm. *Mylonas, S.K.*, +, *TGRS Oct. 2015 5352-5376*

Constrained Least Squares Algorithms for Nonlinear Unmixing of Hyperspectral Imagery. *Pu, H.*, +, *TGRS March 2015 1287-1303*

Detail-Preserving Smoothing Classifier Based on Conditional Random Fields for High Spatial Resolution Remote Sensing Imagery. *Zhao, J.*, +, *TGRS May 2015 2440-2452*

Extension of the Spectral Acceleration Method to Lossy Medium and Its Application to Electromagnetic Scattering From Rough Surfaces. *Wang, Y.*, +, *TGRS April 2015 1865-1875*

Extraction of Vehicle Groups in Airborne Lidar Point Clouds With Two-Level Point Processes. *Borcs, A.*, +, *TGRS March 2015 1475-1489*

Iterative Hyperspectral Image Classification Using Spectral-Spatial Relational Features. *Guccione, P.*, +, *TGRS July 2015 3615-3627*

Iterative Tensor Voting for Pavement Crack Extraction Using Mobile Laser Scanning Data. *Guan, H.*, +, *TGRS March 2015 1527-1537*

MTSAT-1R Visible Imager Point Spread Function Correction, Part II: Theory. *Khlopenkov, K.V.*, +, *TGRS March 2015 1504-1512*

SAR Image Change Detection Based on Iterative Label-Information Composite Kernel Supervised by Anisotropic Texture. *Jia, L., +, TGRS July 2015 3960-3973*

K

Kalman filters

Dynamical Approach for Real-Time Monitoring of Agricultural Crops. *Vicente-Guijalba, F., +, TGRS June 2015 3278-3293*
 Knowledge-Based Multitarget Ship Tracking for HF Surface Wave Radar Systems. *Vivone, G., +, TGRS July 2015 3931-3949*

L

Lakes

Design of an Optimal Soil Moisture Monitoring Network Using SMOS Retrieved Soil Moisture. *Kornelsen, K.C., +, TGRS July 2015 3950-3959*
 Microwave Backscatter From Arctic Lake Ice and Polarimetric Implications. *Atwood, D.K., +, TGRS Nov. 2015 5972-5982*
 Paddy-Rice Monitoring Using TanDEM-X. *Rossi, C., +, TGRS Feb. 2015 900-910*
 Waveform Retracking for Improving Level Estimations From TOPEX/Poseidon, Jason-1, and Jason-2 Altimetry Observations Over African Lakes. *Uebbing, B., +, TGRS April 2015 2211-2224*

Land cover

A Combined Active–Passive Soil Moisture Estimation Algorithm With Adaptive Regularization in Support of SMAP. *Akbar, R., +, TGRS June 2015 3312-3324*
 A Multivariate Empirical Mode Decomposition-Based Approach to Pan-sharpening. *Abdullah, S.M.U., +, TGRS July 2015 3974-3984*
 A Novel Graph-Matching-Based Approach for Domain Adaptation in Classification of Remote Sensing Image Pair. *Banerjee, B., +, TGRS July 2015 4045-4062*
 A Semiautomated Probabilistic Framework for Tree-Cover Delineation From 1-m NAIP Imagery Using a High-Performance Computing Architecture. *Basu, S., +, TGRS Oct. 2015 5690-5708*
 A WTLS-Based Method for Remote Sensing Imagery Registration. *Wu, T., +, TGRS Jan. 2015 102-116*
 Analysis of Oblique Aerial Images for Land Cover and Point Cloud Classification in an Urban Environment. *Rau, J., +, TGRS March 2015 1304-1319*
 Classifying Compound Structures in Satellite Images: A Compressed Representation for Fast Queries. *Gueguen, L., TGRS April 2015 1803-1818*
 Conditional Random Fields for Multitemporal and Multiscale Classification of Optical Satellite Imagery. *Hoberg, T., +, TGRS Feb. 2015 659-673*
 Downscaling Satellite-Based Soil Moisture in Heterogeneous Regions Using High-Resolution Remote Sensing Products and Information Theory: A Synthetic Study. *Chakrabarti, S., +, TGRS Jan. 2015 85-101*
 Fast Subpixel Mapping Algorithms for Subpixel Resolution Change Detection. *Wang, Q., +, TGRS April 2015 1692-1706*
 Features, Color Spaces, and Boosting: New Insights on Semantic Classification of Remote Sensing Images. *Tokarczyk, P., +, TGRS Jan. 2015 280-295*
 Hierarchical Unsupervised Change Detection in Multitemporal Hyperspectral Images. *Liu, S., +, TGRS Jan. 2015 244-260*
 Indicator Cokriging-Based Subpixel Mapping Without Prior Spatial Structure Information. *Wang, Q., +, TGRS Jan. 2015 309-323*
 Minimizing Reflectance Anisotropy Effects in Airborne Spectroscopy Data Using Ross–Li Model Inversion With Continuous Field Land Cover Stratification. *Weyermann, J., +, TGRS Nov. 2015 5814-5823*
 Mutual-Information-Based Semi-Supervised Hyperspectral Band Selection With High Discrimination, High Information, and Low Redundancy. *Feng, J., +, TGRS May 2015 2956-2969*
 Pattern-Based Assessment of Land Cover Change on Continental Scale With Application to NLCD 2001–2006. *Netzel, P., +, TGRS April 2015 1773-1781*
 Retrieval of Atmospheric Aerosol and Surface Properties Over Land Using Satellite Observations. *Shi, G., +, TGRS Feb. 2015 1039-1047*
 Scene Classification Based on the Multifeature Fusion Probabilistic Topic Model for High Spatial Resolution Remote Sensing Imagery. *Zhong, Y., +, TGRS Nov. 2015 6207-6222*
 Semisupervised Transfer Component Analysis for Domain Adaptation in Remote Sensing Image Classification. *Matasci, G., +, TGRS July 2015 3550-3564*

Spatiotemporal Data Fusion Using Temporal High-Pass Modulation and Edge Primitives. *Malleswara Rao, J., +, TGRS Nov. 2015 5853-5860*
 Spectral and Spatial Classification of Hyperspectral Images Based on ICA and Reduced Morphological Attribute Profiles. *Falco, N., +, TGRS Nov. 2015 6223-6240*

Tensorial Independent Component Analysis-Based Feature Extraction for Polarimetric SAR Data Classification. *Tao, M., +, TGRS May 2015 2481-2495*

Land surface temperature

Characterizing Snowpack and the Freeze–Thaw State of Underlying Soil via Assimilation of Multifrequency Passive/Active Microwave Data: A Case Study (NASA CLPX 2003). *Bateni, S.M., +, TGRS Jan. 2015 173-189*
 Emissivity and Temperature Assessment Using a Maximum Entropy Estimator: Structure and Performance of the MaxEntES Algorithm. *Barducci, A., +, TGRS Feb. 2015 738-751*
 MAGI: A New High-Performance Airborne Thermal-Infrared Imaging Spectrometer for Earth Science Applications. *Hall, J.L., +, TGRS Oct. 2015 5447-5457*
 Near-Real-Time Estimation of Water Vapor Column From MSG-SEVIRI Thermal Infrared Bands: Implications for Land Surface Temperature Retrieval. *Julien, Y., +, TGRS Aug. 2015 4231-4237*
 Satellite Microwave Retrieval of Total Precipitable Water Vapor and Surface Air Temperature Over Land From AMSR2. *Du, J., +, TGRS May 2015 2520-2531*

Land use

A WTLS-Based Method for Remote Sensing Imagery Registration. *Wu, T., +, TGRS Jan. 2015 102-116*
 Classifying Compound Structures in Satellite Images: A Compressed Representation for Fast Queries. *Gueguen, L., TGRS April 2015 1803-1818*
 Combination of H-Alpha Decomposition and Migration for Enhancing Sub-surface Target Classification of GPR. *Feng, X., +, TGRS Sept. 2015 4852-4861*
 Effective and Efficient Midlevel Visual Elements-Oriented Land-Use Classification Using VHR Remote Sensing Images. *Cheng, G., +, TGRS Aug. 2015 4238-4249*
 Pyramid of Spatial Relations for Scene-Level Land Use Classification. *Chen, S., +, TGRS April 2015 1947-1957*
 Saliency-Guided Unsupervised Feature Learning for Scene Classification. *Zhang, F., +, TGRS April 2015 2175-2184*
 Temporal Decorrelation in L-, C-, and X-band Satellite Radar Interferometry for Pasture on Drained Peat Soils. *Morishita, Y., +, TGRS Feb. 2015 1096-1104*
 Urban Land Use Information Extraction Using the Ultrahigh-Resolution Chinese Airborne SAR Imagery. *Wu, W., +, TGRS Oct. 2015 5583-5599*

Landmine detection

Efficient Algorithm Design for GPR Imaging of Landmines. *Krueger, K.R., +, TGRS July 2015 4010-4021*
 Fast Analysis of C-Scans From Ground Penetrating Radar via 3-D Haar-Like Features With Application to Landmine Detection. *Klesk, P., +, TGRS July 2015 3996-4009*
 Multiple-Instance Hidden Markov Model for GPR-Based Landmine Detection. *Manandhar, A., +, TGRS April 2015 1737-1745*
 Multiple-Instance Hidden Markov Models With Applications to Landmine Detection. *Yuksel, S.E., +, TGRS Dec. 2015 6766-6775*

Laser ranging

Calibration of the Mercury Laser Altimeter on the MESSENGER Spacecraft. *Sun, X., +, TGRS May 2015 2860-2874*
 Intensity Correction of Terrestrial Laser Scanning Data by Estimating Laser Transmission Function. *Fang, W., +, TGRS Feb. 2015 942-951*

Learning (artificial intelligence)

A Novel Active Learning Method in Relevance Feedback for Content-Based Remote Sensing Image Retrieval. *Demir, B., +, TGRS May 2015 2323-2334*
 A Novel MKL Model of Integrating LiDAR Data and MSI for Urban Area Classification. *Gu, Y., +, TGRS Oct. 2015 5312-5326*
 Active Learning With Gaussian Process Classifier for Hyperspectral Image Classification. *Sun, S., +, TGRS April 2015 1746-1760*
 Automatic Spatial–Spectral Feature Selection for Hyperspectral Image via Discriminative Sparse Multimodal Learning. *Zhang, Q., +, TGRS Jan. 2015 261-279*
 Collaborative Active and Semisupervised Learning for Hyperspectral Remote Sensing Image Classification. *Wan, L., +, TGRS May 2015 2384-2396*
 Compressed-Domain Ship Detection on Spaceborne Optical Image Using Deep Neural Network and Extreme Learning Machine. *Tang, J., +, TGRS March 2015 1174-1185*

- Contributions to Automatic Target Recognition Systems for Underwater Mine Classification. *Fei, T.*, +, *TGRS Jan. 2015 505-518*
- Domain Adaptation for Remote Sensing Image Classification: A Low-Rank Reconstruction and Instance Weighting Label Propagation Inspired Algorithm. *Shi, Q.*, +, *TGRS Oct. 2015 5677-5689*
- Efficient Superpixel-Level Multitask Joint Sparse Representation for Hyperspectral Image Classification. *Li, J.*, +, *TGRS Oct. 2015 5338-5351*
- Extended Random Walker-Based Classification of Hyperspectral Images. *Kang, X.*, +, *TGRS Jan. 2015 144-153*
- Fast Analysis of C-Scans From Ground Penetrating Radar via 3-D Haar-Like Features With Application to Landmine Detection. *Klesk, P.*, +, *TGRS July 2015 3996-4009*
- Features, Color Spaces, and Boosting: New Insights on Semantic Classification of Remote Sensing Images. *Tokarczyk, P.*, +, *TGRS Jan. 2015 280-295*
- Gabor Feature-Based Collaborative Representation for Hyperspectral Imagery Classification. *Jia, S.*, +, *TGRS Feb. 2015 1118-1129*
- Hyperspectral Band Selection Based on Rough Set. *Patra, S.*, +, *TGRS Oct. 2015 5495-5503*
- Hyperspectral Band Selection by Multitask Sparsity Pursuit. *Yuan, Y.*, +, *TGRS Feb. 2015 631-644*
- Improving the Spatial Resolution of Landsat TM/ETM+ Through Fusion With SPOT5 Images via Learning-Based Super-Resolution. *Song, H.*, +, *TGRS March 2015 1195-1204*
- Local Binary Patterns and Extreme Learning Machine for Hyperspectral Imagery Classification. *Li, W.*, +, *TGRS July 2015 3681-3693*
- Local-Manifold-Learning-Based Graph Construction for Semisupervised Hyperspectral Image Classification. *Ma, L.*, +, *TGRS May 2015 2832-2844*
- Multiple Feature Learning for Hyperspectral Image Classification. *Li, J.*, +, *TGRS March 2015 1592-1606*
- Multiple-Instance Hidden Markov Model for GPR-Based Landmine Detection. *Manandhar, A.*, +, *TGRS April 2015 1737-1745*
- Multiple-Instance Hidden Markov Models With Applications to Landmine Detection. *Yüksel, S.E.*, +, *TGRS Dec. 2015 6766-6775*
- Multitask Sparse Nonnegative Matrix Factorization for Joint Spectral-Spatial Hyperspectral Imagery Denoising. *Ye, M.*, +, *TGRS May 2015 2621-2639*
- Mutual-Information-Based Semi-Supervised Hyperspectral Band Selection With High Discrimination, High Information, and Low Redundancy. *Feng, J.*, +, *TGRS May 2015 2956-2969*
- Semisupervised Hyperspectral Classification Using Task-Driven Dictionary Learning With Laplacian Regularization. *Wang, Z.*, +, *TGRS March 2015 1161-1173*
- Supervised Spectral-Spatial Hyperspectral Image Classification With Weighted Markov Random Fields. *Sun, L.*, +, *TGRS March 2015 1490-1503*
- Least mean squares methods**
- Deformation Parameter Estimation in Low Coherence Areas Using a Multisatellite InSAR Approach. *Morishita, Y.*, +, *TGRS Aug. 2015 4275-4283*
- Including Antenna Mispointing in a Semi-Analytical Model for Delay/Doppler Altimetry. *Halimi, A.*, +, *TGRS Feb. 2015 598-608*
- Phase Offset Calculation for Airborne InSAR DEM Generation Without Corner Reflectors. *Perna, S.*, +, *TGRS May 2015 2713-2726*
- Least squares approximations**
- A Semiphysical Microwave Surface Emission Model for Soil Moisture Retrieval. *Shen, X.*, +, *TGRS July 2015 4079-4090*
- A WTLS-Based Method for Remote Sensing Imagery Registration. *Wu, T.*, +, *TGRS Jan. 2015 102-116*
- Automatic Spatial-Spectral Feature Selection for Hyperspectral Image via Discriminative Sparse Multimodal Learning. *Zhang, Q.*, +, *TGRS Jan. 2015 261-279*
- Constrained Least Squares Algorithms for Nonlinear Unmixing of Hyperspectral Imagery. *Pu, H.*, +, *TGRS March 2015 1287-1303*
- Empirical Waveform Decomposition and Radiometric Calibration of a Terrestrial Full-Waveform Laser Scanner. *Hartzell, P.J.*, +, *TGRS Jan. 2015 162-172*
- RPC Estimation via ℓ_1 -Norm-Regularized Least Squares (L1LS). *Long, T.*, +, *TGRS Aug. 2015 4554-4567*
- Soil Moisture Estimation Under Tropical Forests Using UHF Radar Polarimetry. *Truong-Loi, M.*, +, *TGRS April 2015 1718-1727*
- Level set**
- Correction to "Extracting Man-Made Objects From High Spatial Resolution Remote Sensing Images via Fast Level Set Evolutions" [Feb 15 883-899]. *Li, Z.*, +, *TGRS Oct. 2015 5794*
- Libraries**
- Sparse Unmixing of Hyperspectral Data Using Spectral *A Priori* Information. *Tang, W.*, +, *TGRS Feb. 2015 770-783*
- Light polarization**
- CLARREO Reflected Solar Spectrometer: Restrictions for Instrument Sensitivity to Polarization. *Lukashin, C.*, +, *TGRS Dec. 2015 6703-6709*
- Light scattering**
- A New Hybrid Snow Light Scattering Model Based on Geometric Optics Theory and Vector Radiative Transfer Theory. *Xiong, C.*, +, *TGRS Sept. 2015 4862-4875*
- Lighting**
- The Illumination Robustness of Phase Correlation for Image Alignment. *Wan, X.*, +, *TGRS Oct. 2015 5746-5759*
- Linear programming**
- Temporal Orthogonal Projection Inversion for EMI Sensing of UXO. *Song, L.*, +, *TGRS Feb. 2015 1061-1072*
- Log normal distribution**
- A Two-Component *K*-Lognormal Mixture Model and Its Parameter Estimation Method. *Zhou, X.*, +, *TGRS May 2015 2640-2651*
- Low-pass filters**
- MTF-Adjusted Pansharpening Approach Based on Coupled Multiresolution Decompositions. *Kallel, A.*, *TGRS June 2015 3124-3145*
- Lunar surface**
- Simulation of Multiangular Radar Echoes for Speed Measurement During CE-3 Landing on the Lunar Sinus Iridum Surface. *Ye, H.*, +, *TGRS Sept. 2015 4922-4932*
- M**
- Magnetic field integral equations**
- Three-Dimensional Scattering and Inverse Scattering from Objects With Simultaneous Permittivity and Permeability Contrasts. *Zhang, W.*, +, *TGRS Jan. 2015 429-439*
- Magnetic permeability**
- Three-Dimensional Scattering and Inverse Scattering from Objects With Simultaneous Permittivity and Permeability Contrasts. *Zhang, W.*, +, *TGRS Jan. 2015 429-439*
- Maintenance engineering**
- Iterative Tensor Voting for Pavement Crack Extraction Using Mobile Laser Scanning Data. *Guan, H.*, +, *TGRS March 2015 1527-1537*
- Marine engineering**
- Marine Electrical Sensing for Detecting Small Inhomogeneities. *Polydorides, N.*, +, *TGRS Feb. 2015 988-1000*
- Marine pollution**
- Automatic Estimation of Oil Seep Locations in Synthetic Aperture Radar Images. *Suresh, G.*, +, *TGRS Aug. 2015 4218-4230*
- Comparing Near-Coincident C- and X-Band SAR Acquisitions of Marine Oil Spills. *Skrunes, S.*, +, *TGRS April 2015 1958-1975*
- Marine radar**
- Empirical Forecasting of HF-Radar Velocity Using Genetic Algorithms. *Orfila, A.*, +, *TGRS May 2015 2875-2886*
- Gamma Gaussian Inverse Wishart Probability Hypothesis Density for Extended Target Tracking Using X-Band Marine Radar Data. *Granstrom, K.*, +, *TGRS Dec. 2015 6617-6631*
- Marine vehicles**
- Corrections to "Automatic Sea-Surface Obstacle Detection and Tracking in Forward-Looking Sonar Image Sequences" [Aug 15 4661-4669]. *Karoui, I.*, +, *TGRS Nov. 2015 6315*
- Markov processes**
- An Automatic *U*-Distribution and Markov Random Field Segmentation Algorithm for PolSAR Images. *Doulgeris, A.P.*, *TGRS April 2015 1819-1827*
- Inference of the Transition Matrix in Convolved Hidden Markov Models and the Generalized Baum-Welch Algorithm. *Lindberg, D.V.*, +, *TGRS Dec. 2015 6443-6456*
- Spectral-Spatial Classification for Hyperspectral Data Using Rotation Forests With Local Feature Extraction and Markov Random Fields. *Xia, J.*, +, *TGRS May 2015 2532-2546*
- Supervised Spectral-Spatial Hyperspectral Image Classification With Weighted Markov Random Fields. *Sun, L.*, +, *TGRS March 2015 1490-1503*

Mars

Optimization of the Antennas of the EISS Radar Designed to Perform Deep Martian Subsurface Sounding. *Biancheri-Astier, M.*, +, *TGRS Aug. 2015 4627-4637*

Matched filters

Spatial-Response Matched Filter and Its Application in Radiometric Accuracy Improvement of FY-2 Satellite Thermal Infrared Band. *Guo, Q.*, +, *TGRS May 2015 2397-2408*

Materials testing

Calibration of FDTD Simulation of GPR Signal for Asphalt Pavement Compaction Monitoring. *Shangguan, P.*, +, *TGRS March 2015 1538-1548*

Mathematical analysis

A Cluster-Analysis-Based Noise-Robust Phase-Unwrapping Algorithm for Multibaseline Interferograms. *Liu, H.*, +, *TGRS Jan. 2015 494-504*

Empirical Forecasting of HF-Radar Velocity Using Genetic Algorithms. *Orfila, A.*, +, *TGRS May 2015 2875-2886*

Matrix algebra

A Multidimensional Extension of the Concept of Coherence in Polarimetric SAR Interferometry. *Alvarez-Perez, J.L.*, *TGRS March 2015 1257-1270*

An Abundance Characteristic-Based Independent Component Analysis for Hyperspectral Unmixing. *Wang, N.*, +, *TGRS Jan. 2015 416-428*

Automatic Spatial-Spectral Feature Selection for Hyperspectral Image via Discriminative Sparse Multimodal Learning. *Zhang, Q.*, +, *TGRS Jan. 2015 261-279*

Multichannel Phase Unwrapping: Problem Topology and Dual-Level Parallel Computational Model. *Imperatore, P.*, +, *TGRS Oct. 2015 5774-5793*

Progressive Band Processing of Constrained Energy Minimization for Subpixel Detection. *Chang, C.*, +, *TGRS March 2015 1626-1637*

Simultaneous Sparse Graph Embedding for Hyperspectral Image Classification. *Xue, Z.*, +, *TGRS Nov. 2015 6114-6133*

Matrix decomposition

CAESAR: An Approach Based on Covariance Matrix Decomposition to Improve Multibaseline-Multitemporal Interferometric SAR Processing. *Fornaro, G.*, +, *TGRS April 2015 2050-2065*

Hierarchical Clustering of Hyperspectral Images Using Rank-Two Nonnegative Matrix Factorization. *Gillis, N.*, +, *TGRS April 2015 2066-2078*

Interferometric Phase Image Estimation via Sparse Coding in the Complex Domain. *Hongxing, H.*, +, *TGRS May 2015 2587-2602*

Multitask Sparse Nonnegative Matrix Factorization for Joint Spectral-Spatial Hyperspectral Imagery Denoising. *Ye, M.*, +, *TGRS May 2015 2621-2639*

On Diverse Noises in Hyperspectral Unmixing. *Li, C.*, +, *TGRS Oct. 2015 5388-5402*

Substance Dependence Constrained Sparse NMF for Hyperspectral Unmixing. *Yuan, Y.*, +, *TGRS June 2015 2975-2986*

Tensorial Independent Component Analysis-Based Feature Extraction for Polarimetric SAR Data Classification. *Tao, M.*, +, *TGRS May 2015 2481-2495*

Matrix inversion

Extension of the Spectral Acceleration Method to Lossy Medium and Its Application to Electromagnetic Scattering From Rough Surfaces. *Wang, Y.*, +, *TGRS April 2015 1865-1875*

PolInSAR Coherence Region Modeling and Inversion: The Best Normal Matrix Approximation Solution. *Cui, Y.*, +, *TGRS Feb. 2015 1048-1060*

Maximum likelihood estimation

An Adaptive Subpixel Mapping Method Based on MAP Model and Class Determination Strategy for Hyperspectral Remote Sensing Imagery. *Zhong, Y.*, +, *TGRS March 2015 1411-1426*

ASCAT Wind Quality Control Near Rain. *Lin, W.*, +, *TGRS Aug. 2015 4165-4177*

MTSAT-1R Visible Imager Point Spread Function Correction, Part II: Theory. *Khlopenkov, K.V.*, +, *TGRS March 2015 1504-1512*

Spectral-Spatial Classification for Hyperspectral Data Using Rotation Forests With Local Feature Extraction and Markov Random Fields. *Xia, J.*, +, *TGRS May 2015 2532-2546*

Supervised Spectral-Spatial Hyperspectral Image Classification With Weighted Markov Random Fields. *Sun, L.*, +, *TGRS March 2015 1490-1503*

Mean square error methods

Intercomparison of Precipitation Estimates From WSR-88D Radar and TRMM Measurement Over Continental United States. *Chen, S.*, +, *TGRS Aug. 2015 4444-4456*

Time Reversal Imaging of Deeply Buried Targets Under Moderately Rough Surfaces Using Approximate Transmitted Fields. *Moghadasi, S.M.*, +, *TGRS July 2015 3897-3905*

Measurement by laser beam

Parameterization of Centimeter-Scale Sea Ice Surface Roughness Using Terrestrial LiDAR. *Landy, J.C.*, +, *TGRS March 2015 1271-1286*

Measurement errors

Including Antenna Mispointing in a Semi-Analytical Model for Delay/Doppler Altimetry. *Halimi, A.*, +, *TGRS Feb. 2015 598-608*

LiDAR Strip Adjustment Using Multifeatures Matched With Aerial Images. *Zhang, Y.*, +, *TGRS Feb. 2015 976-987*

Marine Electrical Sensing for Detecting Small Inhomogeneities. *Polydorides, N.*, +, *TGRS Feb. 2015 988-1000*

Optimizing Radiation Patterns of a Cylindrical Polarimetric Phased-Array Radar for Multimissions. *Karimkashi, S.*, +, *TGRS May 2015 2810-2818*

Systematic Error Compensation Based on a Rational Function Model for Ziyuan1-02C. *Jiang, Y.*, +, *TGRS July 2015 3985-3995*

Measurement uncertainty

On-Orbit Characterization of S-NPP VIIRS Transmission Functions. *McIntire, J.*, +, *TGRS May 2015 2354-2365*

Optimizing Radiation Patterns of a Cylindrical Polarimetric Phased-Array Radar for Multimissions. *Karimkashi, S.*, +, *TGRS May 2015 2810-2818*

Uncertainty Evaluation of an In-Flight Absolute Radiometric Calibration Using a Statistical Monte Carlo Method. *Chen, W.*, +, *TGRS May 2015 2925-2934*

Medical image processing

Ultrawideband Synthetic Aperture Radar for Respiratory Motion Detection. *Chen, T.*, +, *TGRS July 2015 3749-3763*

Melting

Characterizing Snowpack and the Freeze-Thaw State of Underlying Soil via Assimilation of Multifrequency Passive/Active Microwave Data: A Case Study (NASA CLPX 2003). *Bateni, S.M.*, +, *TGRS Jan. 2015 173-189*

Classification of Alaska Spring Thaw Characteristics Using Satellite L-Band Radar Remote Sensing. *Du, J.*, +, *TGRS Jan. 2015 542-556*

Meta data

Automatic Orthorectification of High-Resolution Optical Satellite Images Using Vector Roads. *Marsetic, A.*, +, *TGRS Nov. 2015 6035-6047*

Metal detectors

Fast Analysis of C-Scans From Ground Penetrating Radar via 3-D Haar-Like Features With Application to Landmine Detection. *Klesk, P.*, +, *TGRS July 2015 3996-4009*

Meteorological radar

A Method to Increase the Scanning Rate of Phased-Array Weather Radar. *Melnikov, V.M.*, +, *TGRS Oct. 2015 5634-5643*

An Improved M-PRT Technique for Spectral Analysis of Weather Radar Observations. *Tahanout, M.*, +, *TGRS Oct. 2015 5572-5582*

Comparison of Theoretical Biases in Estimating Polarimetric Properties of Precipitation With Weather Radar Using Parabolic Reflector, or Planar and Cylindrical Arrays. *Lei, L.*, +, *TGRS Aug. 2015 4313-4327*

Extracting Migrant Flight Orientation Profiles Using Polarimetric Radar. *Stepanian, P.M.*, +, *TGRS Dec. 2015 6518-6528*

Identification and Suppression of Nonmeteorological Echoes Using Spectral Polarimetric Processing. *Alku, L.*, +, *TGRS July 2015 3628-3638*

Modeling Radar Attenuation by a Low Melting Layer With Optimized Model Parameters at C-Band. *von Lerber, A.*, +, *TGRS Feb. 2015 724-737*

Real-Time Noise Estimation and Correction in Dual-Polarization Radar Systems. *Beauchamp, R.M.*, +, *TGRS Nov. 2015 6183-6195*

Reduced Image Aliasing With Microwave Radiometers and Weather Radar Through Windowed Spatial Averaging. *McLinden, M.L.*, +, *TGRS Dec. 2015 6639-6649*

Retrieval of Tephra Size Spectra and Mass Flow Rate From C-Band Radar During the 2010 Eyjafjallajökull Eruption, Iceland. *Mereu, L.*, +, *TGRS Oct. 2015 5644-5660*

Weather Radar Data Interpolation Using a Kernel-Based Lagrangian Nowcasting Technique. *Ruzanski, E.*, +, *TGRS June 2015 3073-3083*

Meteorology

Impact of Diurnal Variation in Vegetation Water Content on Radar Backscatter From Maize During Water Stress. *van Emmerik, T.*, +, *TGRS July 2015 3855-3869*

Intercomparison of Precipitation Estimates From WSR-88D Radar and TRMM Measurement Over Continental United States. *Chen, S.*, +, *TGRS Aug. 2015 4444-4456*

Method of moments

Coaxial-Fed Circular Dipole Array Antenna With Ferrite Loading for Thin Directional Borehole Radar Sonde. *Ebihara, S.*, +, *TGRS April 2015 1842-1854*

Electromagnetic Wave Scattering Analysis From 2-D Periodic Rough Surfaces Using Complex Images Technique. *Barzegar-Parizi, S.*, +, *TGRS Feb. 2015 862-868*

Extension of the Spectral Acceleration Method to Lossy Medium and Its Application to Electromagnetic Scattering From Rough Surfaces. *Wang, Y.*, +, *TGRS April 2015 1865-1875*

Microwave antennas

Sensitivity of Aquarius Active and Passive Measurements Temporal Covariability to Land Surface Characteristics. *Piles, M.*, +, *TGRS Aug. 2015 4700-4711*

Microwave detectors

Advanced Microwave Atmospheric Sounder (AMAS) Channel Specifications and T/V Calibration Results on FY-3C Satellite. *Jieying, H.*, +, *TGRS Jan. 2015 481-493*

Microwave devices

Synergistic Use of Satellite Observations and Numerical Weather Model to Study Atmospheric Occluded Fronts. *Li, X.*, +, *TGRS Sept. 2015 5269-5279*

Microwave imaging

A Dense Medium Microwave Backscattering Model for the Remote Sensing of Oil Palm. *Teng, K.C.*, +, *TGRS June 2015 3250-3259*

ASCAT Wind Quality Control Near Rain. *Lin, W.*, +, *TGRS Aug. 2015 4165-4177*

Comparison of Dobson and Mironov Dielectric Models in the SMOS Soil Moisture Retrieval Algorithm. *Mialon, A.*, +, *TGRS June 2015 3084-3094*

Microwave measurement

A Global Sensitivity Analysis of Soil Parameters Associated With Backscattering Using the Advanced Integral Equation Model. *Ma, C.*, +, *TGRS Oct. 2015 5613-5623*

A Semi-Empirical Model for Computing Land Surface Emissivity in the Microwave Region. *Ringerud, S.*, +, *TGRS April 2015 1935-1946*

Adaptive Control of Undetected Radio Frequency Interference With a Spaceborne Microwave Radiometer. *Chen, D.D.*, +, *TGRS Sept. 2015 4972-4984*

Future Ocean Scatterometry: On the Use of Cross-Polar Scattering to Observe Very High Winds. *Fois, F.*, +, *TGRS Sept. 2015 5009-5020*

Intercomparison of Precipitation Estimates From WSR-88D Radar and TRMM Measurement Over Continental United States. *Chen, S.*, +, *TGRS Aug. 2015 4444-4456*

Thin Ice Detection in the Barents and Kara Seas With AMSR-E and SSMIS Radiometer Data. *Makynen, M.*, +, *TGRS Sept. 2015 5036-5053*

Mie scattering

A New Hybrid Snow Light Scattering Model Based on Geometric Optics Theory and Vector Radiative Transfer Theory. *Xiong, C.*, +, *TGRS Sept. 2015 4862-4875*

Millimeter wave antenna arrays

Imaging Analysis and First Results of the Geostationary Interferometric Microwave Sounder Demonstrator. *Zhang, C.*, +, *TGRS Jan. 2015 207-218*

MIMO radar

Analysis of Multistatic Pixel Correlation in SAR. *Duersch, M.I.*, +, *TGRS Jan. 2015 362-374*

Improving Target Detection Accuracy Based on Multipolarization MIMO GPR. *Zeng, Z.*, +, *TGRS Jan. 2015 15-24*

MIMO SAR OFDM Chirp Waveform Diversity Design With Random Matrix Modulation. *Wang, W.*, +, *TGRS March 2015 1615-1625*

Spaceborne MIMO Synthetic Aperture Radar for Multimodal Operation. *Kim, J.*, +, *TGRS May 2015 2453-2466*

Minerals

A Fast Classification Scheme in Raman Spectroscopy for the Identification of Mineral Mixtures Using a Large Database With Correlated Predictors. *Cochrane, C.J.*, +, *TGRS Aug. 2015 4259-4274*

Gaussian Processes for Estimating Wavelength Position of the Ferric Iron Crystal Field Feature at ~900 nm From Hyperspectral Imagery Acquired in the Short-Wave Infrared (1002–1355 nm). *Murphy, R.J.*, +, *TGRS April 2015 1907-1920*

MAGI: A New High-Performance Airborne Thermal-Infrared Imaging Spectrometer for Earth Science Applications. *Hall, J.L.*, +, *TGRS Oct. 2015 5447-5457*

Minimization

A New Framework for SAR Multitemporal Data RGB Representation: Rationale and Products. *Amitrano, D.*, +, *TGRS Jan. 2015 117-133*

Analysis of Reconstructions Obtained Solving l^p -Penalized Minimization Problems. *Lenti, F.*, +, *TGRS Sept. 2015 4876-4886*

Collaborative Representation for Hyperspectral Anomaly Detection. *Li, W.*, +, *TGRS March 2015 1463-1474*

Design and Characterization of a Peltier-Cold Calibration Target for a 110-GHz Radiometer. *Fernandez, S.*, +, *TGRS Jan. 2015 344-351*

Gabor Feature-Based Collaborative Representation for Hyperspectral Imagery Classification. *Jia, S.*, +, *TGRS Feb. 2015 1118-1129*

Identifiability of the Simplex Volume Minimization Criterion for Blind Hyperspectral Unmixing: The No-Pure-Pixel Case. *Lin, C.*, +, *TGRS Oct. 2015 5530-5546*

Progressive Band Processing of Constrained Energy Minimization for Subpixel Detection. *Chang, C.*, +, *TGRS March 2015 1626-1637*

Spectral–Spatial Classification of Hyperspectral Images via Spatial Translation-Invariant Wavelet-Based Sparse Representation. *He, L.*, +, *TGRS May 2015 2696-2712*

Minimum entropy methods

Minimum-Entropy-Based Adaptive Focusing Algorithm for Image Reconstruction of Terahertz Single-Frequency Holography With Improved Depth of Focus. *Sun, Z.*, +, *TGRS Jan. 2015 519-526*

Mirrors

Modeling the Detector Radiometric Gains of the Suomi NPP VIIRS Reflective Solar Bands. *Lei, N.*, +, *TGRS March 2015 1565-1573*

Mixture models

A Two-Component K -Lognormal Mixture Model and Its Parameter Estimation Method. *Zhou, X.*, +, *TGRS May 2015 2640-2651*

An Abundance Characteristic-Based Independent Component Analysis for Hyperspectral Unmixing. *Wang, N.*, +, *TGRS Jan. 2015 416-428*

Constrained Least Squares Algorithms for Nonlinear Unmixing of Hyperspectral Imagery. *Pu, H.*, +, *TGRS March 2015 1287-1303*

On Diverse Noises in Hyperspectral Unmixing. *Li, C.*, +, *TGRS Oct. 2015 5388-5402*

Modulation

Pansharpening Based on Semiblind Deconvolution. *Vivone, G.*, +, *TGRS April 2015 1997-2010*

Precise Focusing of Airborne SAR Data With Wide Apertures Large Trajectory Deviations: A Chirp Modulated Back-Projection Approach. *Meng, D.*, +, *TGRS May 2015 2510-2519*

Moisture

A Combined Active–Passive Soil Moisture Estimation Algorithm With Adaptive Regularization in Support of SMAP. *Akbar, R.*, +, *TGRS June 2015 3312-3324*

A Comparison of ASCAT Soil Moisture Data With *In Situ* Observations Over the Indian Region: A Multiscale Analysis. *Bhimala, K.R.*, +, *TGRS Oct. 2015 5425-5434*

Characterizing Snowpack and the Freeze–Thaw State of Underlying Soil via Assimilation of Multifrequency Passive/Active Microwave Data: A Case Study (NASA CLPX 2003). *Bateni, S.M.*, +, *TGRS Jan. 2015 173-189*

Comparison of Dobson and Mironov Dielectric Models in the SMOS Soil Moisture Retrieval Algorithm. *Mialon, A.*, +, *TGRS June 2015 3084-3094*

Copula-Based Downscaling of Coarse-Scale Soil Moisture Observations With Implicit Bias Correction. *Verhoest, N.E.C.*, +, *TGRS June 2015 3507-3521*

Dielectric Properties of Saline Soils and an Improved Dielectric Model in C-Band. *Wu, Y.*, +, *TGRS Jan. 2015 440-452*

Effect of the Polarization Leakage on the SMOS Image Reconstruction Algorithm: Validation Using Ocean Model and *In Situ* Soil Moisture Data. *Khazaal, A.*, +, *TGRS Sept. 2015 4961-4971*

Estimating Effective Roughness Parameters of the L-MEB Model for Soil Moisture Retrieval Using Passive Microwave Observations From SMAPVEX12. *Martens, B.*, +, *TGRS July 2015 4091-4103*

Improving Soil Moisture Profile Prediction With the Particle Filter-Markov Chain Monte Carlo Method. *Yan, H.*, +, *TGRS Nov. 2015 6134-6147*

Simulation of Airborne Radiometric Detection of Wake Vortices. *Daniels, T.*, +, *TGRS Dec. 2015 6336-6343*

Simulation of the SMAP Data Stream From SMAPEX Field Campaigns in Australia. *Wu, X.*, +, *TGRS April 2015 1921-1934*

Soil Moisture Estimation Under Tropical Forests Using UHF Radar Polarimetry. *Truong-Loi, M.*, +, *TGRS April 2015 1718-1727*

Soil Moisture Retrieval Using L-Band Radar Observations. *Narvekar, P.S.*, +, *TGRS June 2015 3492-3506*

Soil Moisture Retrieval Using Neural Networks: Application to SMOS. *Rodríguez-Fernandez, N.J.*, +, *TGRS Nov. 2015 5991-6007*

Moisture measurement

A Global Sensitivity Analysis of Soil Parameters Associated With Backscattering Using the Advanced Integral Equation Model. *Ma, C.*, +, *TGRS Oct. 2015 5613-5623*

Calibration of FDTD Simulation of GPR Signal for Asphalt Pavement Compaction Monitoring. *Shangguan, P.*, +, *TGRS March 2015 1538-1548*

Molecular orientation

A Model for the Complex Dielectric Constant of Supercooled Liquid Water at Microwave Frequencies. *Rosenkranz, P.W.*, *TGRS March 2015 1387-1393*

Monte Carlo methods

A New Hybrid Snow Light Scattering Model Based on Geometric Optics Theory and Vector Radiative Transfer Theory. *Xiong, C.*, +, *TGRS Sept. 2015 4862-4875*

A Performance Evaluation of SAR-GMTI Missions for Maritime Applications. *Makhoul, E.*, +, *TGRS May 2015 2496-2509*

Assessment of Multiple Scattering in the Reflectance of Semiarid Shrublands. *Wang, J.*, +, *TGRS Sept. 2015 4910-4921*

Evaluation of a MISR-Based High-Resolution Aerosol Retrieval Method Using AERONET DRAGON Campaign Data. *Moon, T.*, +, *TGRS Aug. 2015 4328-4339*

Inference of the Transition Matrix in Convoluted Hidden Markov Models and the Generalized Baum–Welch Algorithm. *Lindberg, D.V.*, +, *TGRS Dec. 2015 6443-6456*

Interval Edge Estimation in SAR Images. *Dias, L.*, +, *TGRS Feb. 2015 851-861*

Spatial Decorrelation in GNSS-Based SAR Coherent Change Detection. *Zhang, Q.*, +, *TGRS Jan. 2015 219-228*

Uncertainty Evaluation of an In-Flight Absolute Radiometric Calibration Using a Statistical Monte Carlo Method. *Chen, W.*, +, *TGRS May 2015 2925-2934*

Moon

Update of VIIRS On-Orbit Spatial Parameters Characterized With the Moon. *Wang, Z.*, +, *TGRS Oct. 2015 5486-5494*

Motion compensation

Detection and Imaging of Ground Moving Targets With Real SAR Data. *Yang, J.*, +, *TGRS Feb. 2015 920-932*

Generalized Frequency Scaling and Backprojection for LFM-CW SAR Processing. *Zaugg, E.C.*, +, *TGRS July 2015 3600-3614*

Precise Focusing of Airborne SAR Data With Wide Apertures Large Trajectory Deviations: A Chirp Modulated Back-Projection Approach. *Meng, D.*, +, *TGRS May 2015 2510-2519*

Radon-Linear Canonical Ambiguity Function-Based Detection and Estimation Method for Marine Target With Micromotion. *Chen, X.*, +, *TGRS April 2015 2225-2240*

Theory of Two-Dimensional Signature Morphology for Arbitrarily Moving Surface Targets in Squinted Spotlight Synthetic Aperture Radar. *Garren, D.A.*, *TGRS Sept. 2015 4997-5008*

Motion estimation

Detection and Imaging of Ground Moving Targets With Real SAR Data. *Yang, J.*, +, *TGRS Feb. 2015 920-932*

Emulating Sentinel-1 Doppler Radial Ice Drift Measurements Using Envisat ASAR Data. *Kramer, T.*, +, *TGRS Dec. 2015 6407-6418*

Geometry-Information-Aided Efficient Radial Velocity Estimation for Moving Target Imaging and Location Based on Radon Transform. *Zhang, X.*, +, *TGRS Feb. 2015 1105-1117*

Radon-Linear Canonical Ambiguity Function-Based Detection and Estimation Method for Marine Target With Micromotion. *Chen, X.*, +, *TGRS April 2015 2225-2240*

Ultrawideband Synthetic Aperture Radar for Respiratory Motion Detection. *Chen, T.*, +, *TGRS July 2015 3749-3763*

Motion measurement

Current Motion Tracking from Satellite Image Sequence With Global Similarity Optimization Model. *Chen, W.*, *TGRS Feb. 2015 1008-1015*

Multi-threading

Parallel Branch-Cut Algorithm Based on Simulated Annealing for Large-Scale Phase Unwrapping. *Huang, Q.*, +, *TGRS July 2015 3833-3846*

Multiprocessing systems

Parallel Branch-Cut Algorithm Based on Simulated Annealing for Large-Scale Phase Unwrapping. *Huang, Q.*, +, *TGRS July 2015 3833-3846*

N**Natural gas technology**

Detection and Quantification of Three-Dimensional Hydraulic Fractures With Horizontal Borehole Resistivity Measurements. *Yang, K.*, +, *TGRS Aug. 2015 4605-4615*

Natural scenes

Complementarity of Discriminative Classifiers and Spectral Unmixing Techniques for the Interpretation of Hyperspectral Images. *Li, J.*, +, *TGRS May 2015 2899-2912*

Multitask Sparse Nonnegative Matrix Factorization for Joint Spectral–Spatial Hyperspectral Imagery Denoising. *Ye, M.*, +, *TGRS May 2015 2621-2639*

Spatiotemporal Detection and Analysis of Urban Villages in Mega City Regions of China Using High-Resolution Remotely Sensed Imagery. *Huang, X.*, +, *TGRS July 2015 3639-3657*

Synthesis of Fractal Surfaces for Remote-Sensing Applications. *Riccio, D.*, +, *TGRS July 2015 3803-3814*

Network analyzers

Design and Characterization of a Peltier-Cold Calibration Target for a 110-GHz Radiometer. *Fernandez, S.*, +, *TGRS Jan. 2015 344-351*

Dielectric Properties of Saline Soils and an Improved Dielectric Model in C-Band. *Wu, Y.*, +, *TGRS Jan. 2015 440-452*

Fast Analysis of C-Scans From Ground Penetrating Radar via 3-D Haar-Like Features With Application to Landmine Detection. *Klesk, P.*, +, *TGRS July 2015 3996-4009*

Network theory (graphs)

Geodetic Network Design for InSAR. *Mahapatra, P.S.*, +, *TGRS July 2015 3669-3680*

Neural networks

Compressed-Domain Ship Detection on Spaceborne Optical Image Using Deep Neural Network and Extreme Learning Machine. *Tang, J.*, +, *TGRS March 2015 1174-1185*

Global Land Surface Fractional Vegetation Cover Estimation Using General Regression Neural Networks From MODIS Surface Reflectance. *Jia, K.*, +, *TGRS Sept. 2015 4787-4796*

Soil Moisture Retrieval Using Neural Networks: Application to SMOS. *Rodriguez-Fernandez, N.J.*, +, *TGRS Nov. 2015 5991-6007*

Noise

Rotational Pixel Swapping Method for Detection of Circular Features in Binary Images. *Yamamoto, S.*, +, *TGRS Feb. 2015 710-723*

Noise abatement

Geometry-Information-Aided Efficient Radial Velocity Estimation for Moving Target Imaging and Location Based on Radon Transform. *Zhang, X.*, +, *TGRS Feb. 2015 1105-1117*

Nonlinear dynamical systems

Empirical Forecasting of HF-Radar Velocity Using Genetic Algorithms. *Orfila, A.*, +, *TGRS May 2015 2875-2886*

Nonlinear filters

Knowledge-Based Multitarget Ship Tracking for HF Surface Wave Radar Systems. *Vivone, G.*, +, *TGRS July 2015 3931-3949*

Nonlinear programming

Automatic Spatial–Spectral Feature Selection for Hyperspectral Image via Discriminative Sparse Multimodal Learning. *Zhang, Q.*, +, *TGRS Jan. 2015 261-279*

Nonparametric statistics

Object-Based Unsupervised Classification of VHR Panchromatic Satellite Images by Combining the HDP and IBP on Multiple Scenes. *Shu, Y.*, +, *TGRS Nov. 2015 6148-6162*

Notch filters

Statistical Tests for a Ship Detector Based on the Polarimetric Notch Filter. *Marino, A.*, +, *TGRS Aug. 2015 4578-4595*

Numerical analysis

Calibration of SAR Polarimetric Images by Means of a Covariance Matching Approach. *Villa, A.*, +, *TGRS Feb. 2015 674-686*

Emissivity and Temperature Assessment Using a Maximum Entropy Estimator: Structure and Performance of the MaxEntES Algorithm. *Barducci, A.*, +, *TGRS Feb. 2015 738-751*

Extracting Man-Made Objects From High Spatial Resolution Remote Sensing Images via Fast Level Set Evolutions. *Li, Z.*, +, *TGRS Feb. 2015 883-899*

Measuring the Variance of the Vertical Orbital Velocity Component by an Acoustic Wave Gauge With a Single Transceiver Antenna. *Titchenko, Y.A.*, +, *TGRS Aug. 2015 4340-4347*

- Multiplicative-Regularized FFT Twofold Subspace-Based Optimization Method for Inverse Scattering Problems. *Xu, K.*, +, *TGRS Feb. 2015 841-850*
- On Detectability of a Ship's Kelvin Wake in Simulated SAR Images of Rough Sea Surface. *Zilman, G.*, +, *TGRS Feb. 2015 609-619*
- Simulation of Airborne Radiometric Detection of Wake Vortices. *Daniels, T.*, +, *TGRS Dec. 2015 6336-6343*

O

Object detection

- A Sparse Representation-Based Binary Hypothesis Model for Target Detection in Hyperspectral Images. *Zhang, Y.*, +, *TGRS March 2015 1346-1354*
- A Wavelet-Packet-Based Radar Waveform for High Resolution in Range and Velocity Detection. *Cao, S.*, +, *TGRS Jan. 2015 229-243*
- An Adaptive Semisupervised Approach to the Detection of User-Defined Recurrent Changes in Image Time Series. *Zanotta, D.C.*, +, *TGRS July 2015 3707-3719*
- An Improvement in Multichannel SAR-GMTI Detection in Heterogeneous Environments. *Liu, B.*, +, *TGRS Feb. 2015 810-827*
- Analysis of Oblique Aerial Images for Land Cover and Point Cloud Classification in an Urban Environment. *Rau, J.*, +, *TGRS March 2015 1304-1319*
- Automated Underwater Object Recognition by Means of Fluorescence LIDAR. *Matteoli, S.*, +, *TGRS Jan. 2015 375-393*
- Averaged Stokes Vector Based Polarimetric SAR Data Interpretation. *Shang, F.*, +, *TGRS Aug. 2015 4536-4547*
- Compressed-Domain Ship Detection on Spaceborne Optical Image Using Deep Neural Network and Extreme Learning Machine. *Tang, J.*, +, *TGRS March 2015 1174-1185*
- Detection and Imaging of Ground Moving Targets With Real SAR Data. *Yang, J.*, +, *TGRS Feb. 2015 920-932*
- Elitist Chemical Reaction Optimization for Contour-Based Target Recognition in Aerial Images. *Duan, H.*, +, *TGRS May 2015 2845-2859*
- Graph-Based Supervised Automatic Target Detection. *Mishne, G.*, +, *TGRS May 2015 2738-2754*
- Ground Moving Target Trajectory Reconstruction in Single-Channel Circular SAR. *Poisson, J.*, +, *TGRS April 2015 1976-1984*
- Improving Target Detection Accuracy Based on Multipolarization MIMO GPR. *Zeng, Z.*, +, *TGRS Jan. 2015 15-24*
- ISAR Imaging of Nonuniformly Rotating Target Based on a Fast Parameter Estimation Algorithm of Cubic Phase Signal. *Zheng, J.*, +, *TGRS Sept. 2015 4727-4740*
- Multiple Extended Target Tracking for Through-Wall Radars. *Gennarelli, G.*, +, *TGRS Dec. 2015 6482-6494*
- Progressive Band Processing of Constrained Energy Minimization for Subpixel Detection. *Chang, C.*, +, *TGRS March 2015 1626-1637*
- Regular Shape Similarity Index: A Novel Index for Accurate Extraction of Regular Objects From Remote Sensing Images. *Sun, Z.*, +, *TGRS July 2015 3737-3748*
- RFI Suppression Based on Phase-Coded Stepped-Frequency Waveform in Through-Wall Radar. *Li, T.*, +, *TGRS March 2015 1583-1591*
- Robust Clutter Suppression and Moving Target Imaging Approach for Multichannel in Azimuth High-Resolution and Wide-Swath Synthetic Aperture Radar. *Zhang, S.*, +, *TGRS Feb. 2015 687-709*
- Spatiotemporal Detection and Analysis of Urban Villages in Mega City Regions of China Using High-Resolution Remotely Sensed Imagery. *Huang, X.*, +, *TGRS July 2015 3639-3657*
- Statistical Tests for a Ship Detector Based on the Polarimetric Notch Filter. *Marino, A.*, +, *TGRS Aug. 2015 4578-4595*
- Two-Stage Change Detection for Synthetic Aperture Radar. *Cha, M.*, +, *TGRS Dec. 2015 6547-6560*
- Ultrawideband Synthetic Aperture Radar for Respiratory Motion Detection. *Chen, T.*, +, *TGRS July 2015 3749-3763*

Object recognition

- Automated Underwater Object Recognition by Means of Fluorescence LIDAR. *Matteoli, S.*, +, *TGRS Jan. 2015 375-393*
- Elitist Chemical Reaction Optimization for Contour-Based Target Recognition in Aerial Images. *Duan, H.*, +, *TGRS May 2015 2845-2859*

Object tracking

- Aerial Image Registration for Tracking. *Linger, M.E.*, +, *TGRS April 2015 2137-2145*

Object-oriented methods

- Detail-Preserving Smoothing Classifier Based on Conditional Random Fields for High Spatial Resolution Remote Sensing Imagery. *Zhao, J.*, +, *TGRS May 2015 2440-2452*

Occultations

- Intercalibration and Validation of Observations From ATMS and SAPHIR Microwave Sounders. *Moradi, I.*, +, *TGRS Nov. 2015 5915-5925*

Ocean temperature

- A Physical Deterministic Inverse Method for Operational Satellite Remote Sensing: An Application for Sea Surface Temperature Retrievals. *Koner, P.K.*, +, *TGRS Nov. 2015 5872-5888*
- A Robust Fixed Rank Kriging Method for Improving the Spatial Completeness and Accuracy of Satellite SST Products. *Zhu, Y.*, +, *TGRS Sept. 2015 5021-5035*
- Asymmetric Features of Oceanic Microwave Brightness Temperature in High Surface Wind Speed Condition. *Kazumori, M.*, +, *TGRS Nov. 2015 5901-5914*
- Characteristics of the Trends in the Global Tropopause Estimated From COSMIC Radio Occultation Data. *Gao, P.*, +, *TGRS Dec. 2015 6813-6822*
- Ocean Turbulent Dynamics at Superresolution From Optimal Multiresolution Analysis and Multiplicative Cascade. *Sudre, J.*, +, *TGRS Nov. 2015 6274-6285*

Ocean waves

- A Bistatic SAR Image Intensity Model for the Composite Ship-Ocean Scene. *Zhao, Y.*, +, *TGRS Aug. 2015 4250-4258*
- A New Approach to Ocean Wave Parameter Estimates From C-Band ScanSAR Images. *Romeiser, R.*, +, *TGRS March 2015 1320-1345*
- A Self-Adaptive Wavelet-Based Algorithm for Wave Measurement Using Nautical Radar. *An, J.*, +, *TGRS Jan. 2015 567-577*
- An Efficient Multiregion FEM-BIM for Composite Scattering From an Arbitrary Dielectric Target Above Dielectric Rough Sea Surfaces. *Guo, L.*, +, *TGRS July 2015 3885-3896*
- An Ocean Wind Doppler Model Based on the Generalized Curvature Ocean Surface Scattering Model. *Said, F.*, +, *TGRS Dec. 2015 6632-6638*
- Comparison of Incoherent and Coherent Wave Field Measurements Using Dual-Polarized Pulse-Doppler X-Band Radar. *Hackett, E.E.*, +, *TGRS Nov. 2015 5926-5942*
- Modeling L-Band Brightness Temperature at Dome C in Antarctica and Comparison With SMOS Observations. *Leduc-Leballeur, M.*, +, *TGRS July 2015 4022-4032*
- On Detectability of a Ship's Kelvin Wake in Simulated SAR Images of Rough Sea Surface. *Zilman, G.*, +, *TGRS Feb. 2015 609-619*
- Retrieval of Higher Order Ocean Spectral Information From Sun glint. *Cureton, G.P.*, *TGRS Jan. 2015 36-50*
- Retrieval of Significant Wave Height and Mean Sea Surface Level Using the GNSS-R Interference Pattern Technique: Results From a Three-Month Field Campaign. *Alonso-Arroyo, A.*, +, *TGRS June 2015 3198-3209*
- The GO4 Model in Near-Nadir Microwave Scattering From the Sea Surface. *Boisot, O.*, +, *TGRS Nov. 2015 5889-5900*
- Tsunami-Wave Parameter Estimation Using GNSS-Based Sea Surface Height Measurement. *Yu, K.*, *TGRS May 2015 2603-2611*
- Validation of Significant Wave Height From Improved Satellite Altimetry in the German Bight. *Passaro, M.*, +, *TGRS April 2015 2146-2156*

Oceanographic equipment

- Automatic Sea-Surface Obstacle Detection and Tracking in Forward-Looking Sonar Image Sequences. *Karoui, I.*, +, *TGRS Aug. 2015 4661-4669*
- Contributions to Automatic Target Recognition Systems for Underwater Mine Classification. *Fei, T.*, +, *TGRS Jan. 2015 505-518*
- Empirical Forecasting of HF-Radar Velocity Using Genetic Algorithms. *Orfila, A.*, +, *TGRS May 2015 2875-2886*
- Impact of Improved Calibration of a NEO HySpex VNIR-1600 Sensor on Remote Sensing of Water Depth. *Lenhard, K.*, +, *TGRS Nov. 2015 6085-6098*

Oceanographic regions

- A New Satellite-Based Indicator for Estimation of the Western North Pacific Tropical Cyclone Current Intensity. *Zhuge, X.*, +, *TGRS Oct. 2015 5661-5676*
- AFRODiTE: A Fluorescence Lidar Simulator for Underwater Object Detection Applications. *Zotta, L.*, +, *TGRS June 2015 3022-3041*
- Analysis of Interactions Among Two Tropical Depressions and Typhoons Tembin and Bolaven (2012) in Pacific Ocean by Using Satellite Cloud Images. *Liu, J.*, +, *TGRS March 2015 1394-1402*

Arctic Sea Ice Freeboard Retrieval With Waveform Characteristics for NASA's Airborne Topographic Mapper (ATM) and Land, Vegetation, and Ice Sensor (LVIS). *Yi, D.*, +, *TGRS March 2015 1403-1410*

Characteristics of the Trends in the Global Tropopause Estimated From COSMIC Radio Occultation Data. *Gao, P.*, +, *TGRS Dec. 2015 6813-6822*

Comparing Near-Coincident C- and X-Band SAR Acquisitions of Marine Oil Spills. *Skrunes, S.*, +, *TGRS April 2015 1958-1975*

Cross-Sensor Continuity of Satellite-Derived Water Clarity in the Gulf of Mexico: Insights Into Temporal Aliasing and Implications for Long-Term Water Clarity Assessment. *Barnes, B.B.*, +, *TGRS April 2015 1761-1772*

Emulating Sentinel-1 Doppler Radial Ice Drift Measurements Using Envisat ASAR Data. *Kramer, T.*, +, *TGRS Dec. 2015 6407-6418*

Modeling and Measurement of C-Band Radar Backscatter From Snow-Covered First-Year Sea Ice. *Komarov, A.S.*, +, *TGRS July 2015 4063-4078*

Thin Ice Detection in the Barents and Kara Seas With AMSR-E and SSMIS Radiometer Data. *Makynen, M.*, +, *TGRS Sept. 2015 5036-5053*

X-Band Interferometric SAR Observations of Baltic Fast Ice. *Berg, A.*, +, *TGRS March 2015 1248-1256*

Oceanographic techniques

A New Approach to Ocean Wave Parameter Estimates From C-Band ScanSAR Images. *Romeiser, R.*, +, *TGRS March 2015 1320-1345*

A Performance Evaluation of SAR-GMTI Missions for Maritime Applications. *Makhoul, E.*, +, *TGRS May 2015 2496-2509*

A Physical Deterministic Inverse Method for Operational Satellite Remote Sensing: An Application for Sea Surface Temperature Retrievals. *Koner, P.K.*, +, *TGRS Nov. 2015 5872-5888*

A Robust Fixed Rank Kriging Method for Improving the Spatial Completeness and Accuracy of Satellite SST Products. *Zhu, Y.*, +, *TGRS Sept. 2015 5021-5035*

A Self-Adaptive Wavelet-Based Algorithm for Wave Measurement Using Nautical Radar. *An, J.*, +, *TGRS Jan. 2015 567-577*

AFRODiTE: A Fluorescence Lidar Simulator for Underwater Object Detection Applications. *Zotta, L.*, +, *TGRS June 2015 3022-3041*

An Efficient Multiregion FEM-BIM for Composite Scattering From an Arbitrary Dielectric Target Above Dielectric Rough Sea Surfaces. *Guo, L.*, +, *TGRS July 2015 3885-3896*

An Ocean Wind Doppler Model Based on the Generalized Curvature Ocean Surface Scattering Model. *Said, F.*, +, *TGRS Dec. 2015 6632-6638*

Analysis of X-Band SAR Sea-Clutter Distributions at Different Grazing Angles. *Fiche, A.*, +, *TGRS Aug. 2015 4650-4660*

Arctic Sea Ice Freeboard Retrieval With Waveform Characteristics for NASA's Airborne Topographic Mapper (ATM) and Land, Vegetation, and Ice Sensor (LVIS). *Yi, D.*, +, *TGRS March 2015 1403-1410*

Automatic Sea-Surface Obstacle Detection and Tracking in Forward-Looking Sonar Image Sequences. *Karoui, I.*, +, *TGRS Aug. 2015 4661-4669*

Comparing Near-Coincident C- and X-Band SAR Acquisitions of Marine Oil Spills. *Skrunes, S.*, +, *TGRS April 2015 1958-1975*

Comparison of Incoherent and Coherent Wave Field Measurements Using Dual-Polarized Pulse-Doppler X-Band Radar. *Hackett, E.E.*, +, *TGRS Nov. 2015 5926-5942*

Comparison of SSM/I and AMSR-E Sea Ice Concentrations With ASPeCt Ship Observations Around Antarctica. *Beitsch, A.*, +, *TGRS April 2015 1985-1996*

Compressed-Domain Ship Detection on Spaceborne Optical Image Using Deep Neural Network and Extreme Learning Machine. *Tang, J.*, +, *TGRS March 2015 1174-1185*

Coprime Synthetic Aperture Radar (CopSAR): A New Acquisition Mode for Maritime Surveillance. *Di Martino, G.*, +, *TGRS June 2015 3110-3123*

Corrections to "Automatic Sea-Surface Obstacle Detection and Tracking in Forward-Looking Sonar Image Sequences" [Aug 15 4661-4669]. *Karoui, I.*, +, *TGRS Nov. 2015 6315*

Detection of Moving Ships Based on a Combination of Magnitude and Phase in Along-Track Interferometric SAR—Part I: SIMP Metric and Its Performance. *Gao, G.*, +, *TGRS July 2015 3565-3581*

Detection of Moving Ships Based on a Combination of Magnitude and Phase in Along-Track Interferometric SAR—Part II: Statistical Modeling and CFAR Detection. *Gao, G.*, +, *TGRS July 2015 3582-3599*

Empirical Forecasting of HF-Radar Velocity Using Genetic Algorithms. *Orfila, A.*, +, *TGRS May 2015 2875-2886*

Fast Unsupervised Seafloor Characterization in Sonar Imagery Using Lacunarity. *Williams, D.P.*, *TGRS Nov. 2015 6022-6034*

Graph-Based Supervised Automatic Target Detection. *Mishne, G.*, +, *TGRS May 2015 2738-2754*

Image Processing for Identification of Sea-Ice Floes and the Floe Size Distributions. *Zhang, Q.*, +, *TGRS May 2015 2913-2924*

Impact of Improved Calibration of a NEO HySpex VNIR-1600 Sensor on Remote Sensing of Water Depth. *Lenhard, K.*, +, *TGRS Nov. 2015 6085-6098*

Integration of Hyperspectral Imagery and Sparse Sonar Data for Shallow Water Bathymetry Mapping. *Cheng, L.*, +, *TGRS June 2015 3235-3249*

Knowledge-Based Multitarget Ship Tracking for HF Surface Wave Radar Systems. *Vivone, G.*, +, *TGRS July 2015 3931-3949*

Measuring the Variance of the Vertical Orbital Velocity Component by an Acoustic Wave Gauge With a Single Transceiver Antenna. *Titchenko, Y.A.*, +, *TGRS Aug. 2015 4340-4347*

Modeling and Measurement of C-Band Radar Backscatter From Snow-Covered First-Year Sea Ice. *Komarov, A.S.*, +, *TGRS July 2015 4063-4078*

Numerical and Experimental Evaluation of Terrestrial LiDAR for Parameterizing Centimeter-Scale Sea Ice Surface Roughness. *Landy, J.C.*, +, *TGRS Sept. 2015 4887-4898*

Ocean Turbulent Dynamics at Superresolution From Optimal Multiresolution Analysis and Multiplicative Cascade. *Sudre, J.*, +, *TGRS Nov. 2015 6274-6285*

On Detectability of a Ship's Kelvin Wake in Simulated SAR Images of Rough Sea Surface. *Zilman, G.*, +, *TGRS Feb. 2015 609-619*

Optimization of the Degree of Polarization for Enhanced Ship Detection Using Polarimetric RADARSAT-2. *Touzi, R.*, +, *TGRS Oct. 2015 5403-5424*

Parameterization of Centimeter-Scale Sea Ice Surface Roughness Using Terrestrial LiDAR. *Landy, J.C.*, +, *TGRS March 2015 1271-1286*

Retrieval of Higher Order Ocean Spectral Information From Sunlint. *Cureton, G.P.*, *TGRS Jan. 2015 36-50*

Retrieval of Significant Wave Height and Mean Sea Surface Level Using the GNSS-R Interference Pattern Technique: Results From a Three-Month Field Campaign. *Alonso-Arroyo, A.*, +, *TGRS June 2015 3198-3209*

Simulation of Correlated Low-Grazing-Angle Sea Clutter Based on Phase Retrieval. *Wang, J.*, +, *TGRS July 2015 3917-3930*

The GO4 Model in Near-Nadir Microwave Scattering From the Sea Surface. *Boisot, O.*, +, *TGRS Nov. 2015 5889-5900*

Thin Ice Detection in the Barents and Kara Seas With AMSR-E and SSMIS Radiometer Data. *Makynen, M.*, +, *TGRS Sept. 2015 5036-5053*

Tsunami-Wave Parameter Estimation Using GNSS-Based Sea Surface Height Measurement. *Yu, K.*, *TGRS May 2015 2603-2611*

Validation of Significant Wave Height From Improved Satellite Altimetry in the German Bight. *Passaro, M.*, +, *TGRS April 2015 2146-2156*

Waveform Aliasing in Satellite Radar Altimetry. *Smith, W.H.F.*, +, *TGRS April 2015 1671-1682*

Oceanography

Effect of the Polarization Leakage on the SMOS Image Reconstruction Algorithm: Validation Using Ocean Model and *In Situ* Soil Moisture Data. *Khazaal, A.*, +, *TGRS Sept. 2015 4961-4971*

OFDM modulation

MIMO SAR OFDM Chirp Waveform Diversity Design With Random Matrix Modulation. *Wang, W.*, *TGRS March 2015 1615-1625*

OFDM Synthetic Aperture Radar Imaging With Sufficient Cyclic Prefix. *Zhang, T.*, +, *TGRS Jan. 2015 394-404*

Spaceborne MIMO Synthetic Aperture Radar for Multimodal Operation. *Kim, J.*, +, *TGRS May 2015 2453-2466*

Oil pollution

Automatic Estimation of Oil Seep Locations in Synthetic Aperture Radar Images. *Suresh, G.*, +, *TGRS Aug. 2015 4218-4230*

Comparing Near-Coincident C- and X-Band SAR Acquisitions of Marine Oil Spills. *Skrunes, S.*, +, *TGRS April 2015 1958-1975*

Oils

Automatic Estimation of Oil Seep Locations in Synthetic Aperture Radar Images. *Suresh, G.*, +, *TGRS Aug. 2015 4218-4230*

Optical correlation

A Fast Classification Scheme in Raman Spectroscopy for the Identification of Mineral Mixtures Using a Large Database With Correlated Predictors. *Cochrane, C.J.*, +, *TGRS Aug. 2015 4259-4274*

Optical crosstalk

Prelaunch Radiometric Characterization and Calibration of the S-NPP VIIRS Sensor. *Oudrari, H.*, +, *TGRS April 2015 2195-2210*

Optical filters

Adaptive-Window Polarimetric SAR Image Speckle Filtering Based on a Homogeneity Measurement. *Lang, F.*, +, *TGRS Oct. 2015 5435-5446*

Identification and Suppression of Nonmeteorological Echoes Using Spectral Polarimetric Processing. *Alku, L., +, TGRS July 2015 3628-3638*

Optical images

A Three-Dimensional Model-Based Approach to the Estimation of the Tree Top Height by Fusing Low-Density LiDAR Data and Very High Resolution Optical Images. *Paris, C., +, TGRS Jan. 2015 467-480*

Adaptive Total Variation Regularization Based SAR Image Despeckling and Despeckling Evaluation Index. *Zhao, Y., +, TGRS May 2015 2765-2774*

Conditional Random Fields for Multitemporal and Multiscale Classification of Optical Satellite Imagery. *Hoberg, T., +, TGRS Feb. 2015 659-673*

Systematic Error Compensation Based on a Rational Function Model for Ziyuan1-02C. *Jiang, Y., +, TGRS July 2015 3985-3995*

Optical radar

A Novel MKL Model of Integrating LiDAR Data and MSI for Urban Area Classification. *Gu, Y., +, TGRS Oct. 2015 5312-5326*

A Three-Dimensional Model-Based Approach to the Estimation of the Tree Top Height by Fusing Low-Density LiDAR Data and Very High Resolution Optical Images. *Paris, C., +, TGRS Jan. 2015 467-480*

Arctic Sea Ice Freeboard Retrieval With Waveform Characteristics for NASA's Airborne Topographic Mapper (ATM) and Land, Vegetation, and Ice Sensor (LVIS). *Yi, D., +, TGRS March 2015 1403-1410*

Automated Underwater Object Recognition by Means of Fluorescence LiDAR. *Matteoli, S., +, TGRS Jan. 2015 375-393*

Automatic Construction of 3-D Building Model From Airborne LiDAR Data Through 2-D Snake Algorithm. *Yan, J., +, TGRS Jan. 2015 3-14*

Calibration of the Mercury Laser Altimeter on the MESSENGER Spacecraft. *Sun, X., +, TGRS May 2015 2860-2874*

CLARREO Reflected Solar Spectrometer: Restrictions for Instrument Sensitivity to Polarization. *Lukashin, C., +, TGRS Dec. 2015 6703-6709*

Development and Operational Analysis of an All-Fiber Coherent Doppler Lidar System for Wind Sensing and Aerosol Profiling. *Abdelazim, S., +, TGRS Dec. 2015 6495-6506*

Empirical Waveform Decomposition and Radiometric Calibration of a Terrestrial Full-Waveform Laser Scanner. *Hartzell, P.J., +, TGRS Jan. 2015 162-172*

Extraction of Structural and Dynamic Properties of Forests From Polarimetric-Interferometric SAR Data Affected by Temporal Decorrelation. *Lavalle, M., +, TGRS Sept. 2015 4752-4767*

LiDAR Strip Adjustment Using Multifeatures Matched With Aerial Images. *Zhang, Y., +, TGRS Feb. 2015 976-987*

Parameterization of Centimeter-Scale Sea Ice Surface Roughness Using Terrestrial LiDAR. *Landy, J.C., +, TGRS March 2015 1271-1286*

Semiautomated Extraction of Street Light Poles From Mobile LiDAR Point Clouds. *Yu, Y., +, TGRS March 2015 1374-1386*

The Effect of Boreal Forest Canopy in Satellite Snow Mapping—A Multi-sensor Analysis. *Cohen, J., +, TGRS Dec. 2015 6593-6607*

Optical scanners

Empirical Waveform Decomposition and Radiometric Calibration of a Terrestrial Full-Waveform Laser Scanner. *Hartzell, P.J., +, TGRS Jan. 2015 162-172*

Forest Data Collection Using Terrestrial Image-Based Point Clouds From a Handheld Camera Compared to Terrestrial and Personal Laser Scanning. *Liang, X., +, TGRS Sept. 2015 5117-5132*

Intensity Correction of Terrestrial Laser Scanning Data by Estimating Laser Transmission Function. *Fang, W., +, TGRS Feb. 2015 942-951*

Iterative Tensor Voting for Pavement Crack Extraction Using Mobile Laser Scanning Data. *Guan, H., +, TGRS March 2015 1527-1537*

LiDAR Strip Adjustment Using Multifeatures Matched With Aerial Images. *Zhang, Y., +, TGRS Feb. 2015 976-987*

Operational BRDF Effects Correction for Wide-Field-of-View Optical Scanners (BREFCOR). *Schlapfer, D., +, TGRS April 2015 1855-1864*

Optical sensors

Empirical Waveform Decomposition and Radiometric Calibration of a Terrestrial Full-Waveform Laser Scanner. *Hartzell, P.J., +, TGRS Jan. 2015 162-172*

Spaceborne Earth-Observing Optical Sensor Static Capability Index for Clustering. *Chen, N., +, TGRS Oct. 2015 5504-5518*

Optical transfer function

Minimum-Entropy-Based Adaptive Focusing Algorithm for Image Reconstruction of Terahertz Single-Frequency Holography With Improved Depth of Focus. *Sun, Z., +, TGRS Jan. 2015 519-526*

MTF-Adjusted Pansharpening Approach Based on Coupled Multiresolution Decompositions. *Kallel, A., TGRS June 2015 3124-3145*

MTSAT-1R Visible Imager Point Spread Correction Function, Part I: The Need for, Validation of, and Calibration With. *Doelling, D.R., +, TGRS March 2015 1513-1526*

MTSAT-1R Visible Imager Point Spread Function Correction, Part II: Theory. *Khlopenkov, K.V., +, TGRS March 2015 1504-1512*

Update of VIIRS On-Orbit Spatial Parameters Characterized With the Moon. *Wang, Z., +, TGRS Oct. 2015 5486-5494*

Optical variables measurement

Adaptive-Window Polarimetric SAR Image Speckle Filtering Based on a Homogeneity Measurement. *Lang, F., +, TGRS Oct. 2015 5435-5446*

Optimization

Adaptive Multiobjective Memetic Fuzzy Clustering Algorithm for Remote Sensing Imagery. *Ma, A., +, TGRS Aug. 2015 4202-4217*

Calibration of SAR Polarimetric Images by Means of a Covariance Matching Approach. *Villa, A., +, TGRS Feb. 2015 674-686*

Constrained Least Squares Algorithms for Nonlinear Unmixing of Hyperspectral Imagery. *Pu, H., +, TGRS March 2015 1287-1303*

Current Motion Tracking from Satellite Image Sequence With Global Similarity Optimization Model. *Chen, W., TGRS Feb. 2015 1008-1015*

Electromagnetic Inverse Scattering of Axially Moving Cylindrical Targets. *Pastorino, M., +, TGRS March 2015 1452-1462*

Extended Random Walker-Based Classification of Hyperspectral Images. *Kang, X., +, TGRS Jan. 2015 144-153*

Extraction of Vehicle Groups in Airborne Lidar Point Clouds With Two-Level Point Processes. *Borcs, A., +, TGRS March 2015 1475-1489*

Intrinsic Image Decomposition for Feature Extraction of Hyperspectral Images. *Kang, X., +, TGRS April 2015 2241-2253*

Minimum Volume Simplex Analysis: A Fast Algorithm for Linear Hyperspectral Unmixing. *Li, J., +, TGRS Sept. 2015 5067-5082*

Multiplicative-Regularized FFT Twofold Subspace-Based Optimization Method for Inverse Scattering Problems. *Xu, K., +, TGRS Feb. 2015 841-850*

Optimization of the Antennas of the EISS Radar Designed to Perform Deep Martian Subsurface Sounding. *Biancheri-Astier, M., +, TGRS Aug. 2015 4627-4637*

Optimizing Radiation Patterns of a Cylindrical Polarimetric Phased-Array Radar for Multimissions. *Karimkashi, S., +, TGRS May 2015 2810-2818*

Pansharpening Based on Semiblind Deconvolution. *Vivone, G., +, TGRS April 2015 1997-2010*

Quantization Effects in TanDEM-X Data. *Martone, M., +, TGRS Feb. 2015 583-597*

Spectral Image Unmixing From Optimal Coded-Aperture Compressive Measurements. *Ramirez, A., +, TGRS Jan. 2015 405-415*

Spectral-Spatial Classification for Hyperspectral Data Using Rotation Forests With Local Feature Extraction and Markov Random Fields. *Xia, J., +, TGRS May 2015 2532-2546*

Task-Driven Dictionary Learning for Hyperspectral Image Classification With Structured Sparsity Constraints. *Sun, X., +, TGRS Aug. 2015 4457-4471*

Toward Evaluating Multiscale Segmentations of High Spatial Resolution Remote Sensing Images. *Zhang, X., +, TGRS July 2015 3694-3706*

Ozone

Design and Characterization of a Peltier-Cold Calibration Target for a 110-GHz Radiometer. *Fernandez, S., +, TGRS Jan. 2015 344-351*

P

Parallel algorithms

Parallel Branch-Cut Algorithm Based on Simulated Annealing for Large-Scale Phase Unwrapping. *Huang, Q., +, TGRS July 2015 3833-3846*

Parallel machines

Parallel Branch-Cut Algorithm Based on Simulated Annealing for Large-Scale Phase Unwrapping. *Huang, Q., +, TGRS July 2015 3833-3846*

Parallel processing

Multichannel Phase Unwrapping: Problem Topology and Dual-Level Parallel Computational Model. *Imperatore, P., +, TGRS Oct. 2015 5774-5793*

Parameter estimation

Calibration of SAR Polarimetric Images by Means of a Covariance Matching Approach. *Villa, A., +, TGRS Feb. 2015 674-686*

Detection of Moving Ships Based on a Combination of Magnitude and Phase in Along-Track Interferometric SAR—Part II: Statistical Modeling and CFAR Detection. *Gao, G., +, TGRS July 2015 3582-3599*

- Estimating Forest Biomass From TerraSAR-X Stripmap Radargrammetry. *Solberg, S.*, +, *TGRS Jan. 2015 154-161*
- Soil Moisture Estimation Under Tropical Forests Using UHF Radar Polarimetry. *Truong-Loi, M.*, +, *TGRS April 2015 1718-1727*
- Pareto distribution**
- Simulation of Correlated Low-Grazing-Angle Sea Clutter Based on Phase Retrieval. *Wang, J.*, +, *TGRS July 2015 3917-3930*
- Particle swarm optimization**
- A Novel Feature Selection Approach Based on FODPSO and SVM. *Ghamisi, P.*, +, *TGRS May 2015 2935-2947*
- Pattern classification**
- Novel Two-Dimensional Singular Spectrum Analysis for Effective Feature Extraction and Data Classification in Hyperspectral Imaging. *Zabalza, J.*, +, *TGRS Aug. 2015 4418-4433*
- Pattern clustering**
- A Cluster-Analysis-Based Noise-Robust Phase-Unwrapping Algorithm for Multibaseline Interferograms. *Liu, H.*, +, *TGRS Jan. 2015 494-504*
- A Novel Graph-Matching-Based Approach for Domain Adaptation in Classification of Remote Sensing Image Pair. *Banerjee, B.*, +, *TGRS July 2015 4045-4062*
- Spaceborne Earth-Observing Optical Sensor Static Capability Index for Clustering. *Chen, N.*, +, *TGRS Oct. 2015 5504-5518*
- Peltier effect**
- Design and Characterization of a Peltier-Cold Calibration Target for a 110-GHz Radiometer. *Fernandez, S.*, +, *TGRS Jan. 2015 344-351*
- Performance evaluation**
- Toward Evaluating Multiscale Segmentations of High Spatial Resolution Remote Sensing Images. *Zhang, X.*, +, *TGRS July 2015 3694-3706*
- Permittivity**
- A Model for the Complex Dielectric Constant of Supercooled Liquid Water at Microwave Frequencies. *Rosenkranz, P.W.*, *TGRS March 2015 1387-1393*
- Comparison of Dobson and Mironov Dielectric Models in the SMOS Soil Moisture Retrieval Algorithm. *Mialon, A.*, +, *TGRS June 2015 3084-3094*
- Dielectric Properties of Saline Soils and an Improved Dielectric Model in C-Band. *Wu, Y.*, +, *TGRS Jan. 2015 440-452*
- Model-Based Quantitative Cross-Borehole GPR Imaging via Virtual Experiments. *Di Donato, L.*, +, *TGRS Aug. 2015 4178-4185*
- Three-Dimensional Scattering and Inverse Scattering from Objects With Simultaneous Permittivity and Permeability Contrasts. *Zhang, W.*, +, *TGRS Jan. 2015 429-439*
- Time Reversal Imaging of Deeply Buried Targets Under Moderately Rough Surfaces Using Approximate Transmitted Fields. *Moghadasi, S.M.*, +, *TGRS July 2015 3897-3905*
- Permittivity measurement**
- Permittivity Estimation Using Coupling of Commercial Ground Penetrating Radars. *Hislop, G.*, *TGRS Aug. 2015 4157-4164*
- Perturbation theory**
- Modeling and Measurement of C-Band Radar Backscatter From Snow-Covered First-Year Sea Ice. *Komarov, A.S.*, +, *TGRS July 2015 4063-4078*
- Phase estimation**
- Interferometric Phase Image Estimation via Sparse Coding in the Complex Domain. *Hongxing, H.*, +, *TGRS May 2015 2587-2602*
- Phased array radar**
- Optimizing Radiation Patterns of a Cylindrical Polarimetric Phased-Array Radar for Multimissions. *Karimkashi, S.*, +, *TGRS May 2015 2810-2818*
- Reduced Image Aliasing With Microwave Radiometers and Weather Radar Through Windowed Spatial Averaging. *McLinden, M.L.*, +, *TGRS Dec. 2015 6639-6649*
- Phenology**
- Dynamical Approach for Real-Time Monitoring of Agricultural Crops. *Vicente-Guijalba, F.*, +, *TGRS June 2015 3278-3293*
- Photogrammetry**
- Analysis of Oblique Aerial Images for Land Cover and Point Cloud Classification in an Urban Environment. *Rau, J.*, +, *TGRS March 2015 1304-1319*
- RPC Estimation via ℓ_1 -Norm-Regularized Least Squares (L1LS). *Long, T.*, +, *TGRS Aug. 2015 4554-4567*
- Photometers**
- Characterizing the Aerosol and Surface Reflectance Over Australia Using AATSR. *Qin, Y.*, +, *TGRS Nov. 2015 6163-6182*
- Planetary landers**
- Simulation of Multiangular Radar Echoes for Speed Measurement During CE-3 Landing on the Lunar Sinus Iridum Surface. *Ye, H.*, +, *TGRS Sept. 2015 4922-4932*
- Planetary rovers**
- Optimization of the Antennas of the EISS Radar Designed to Perform Deep Martian Subsurface Sounding. *Biancheri-Astier, M.*, +, *TGRS Aug. 2015 4627-4637*
- Simulation of Multiangular Radar Echoes for Speed Measurement During CE-3 Landing on the Lunar Sinus Iridum Surface. *Ye, H.*, +, *TGRS Sept. 2015 4922-4932*
- Planetary surfaces**
- Optimization of the Antennas of the EISS Radar Designed to Perform Deep Martian Subsurface Sounding. *Biancheri-Astier, M.*, +, *TGRS Aug. 2015 4627-4637*
- Plasmonics**
- Plasmonic Superpixel Sensor for Compressive Spectral Sensing. *Jang, W.*, +, *TGRS June 2015 3471-3480*
- Pneumodynamics**
- Ultrawideband Synthetic Aperture Radar for Respiratory Motion Detection. *Chen, T.*, +, *TGRS July 2015 3749-3763*
- Polarimetry**
- CLARREO Reflected Solar Spectrometer: Restrictions for Instrument Sensitivity to Polarization. *Lukashin, C.*, +, *TGRS Dec. 2015 6703-6709*
- Polarization**
- Effect of the Polarization Leakage on the SMOS Image Reconstruction Algorithm: Validation Using Ocean Model and *In Situ* Soil Moisture Data. *Khazaal, A.*, +, *TGRS Sept. 2015 4961-4971*
- Polynomials**
- A Simplified Formulation for Rough Surface Cross-Polarized Backscattering Under the Second-Order Small-Slope Approximation. *Guerin, C.*, +, *TGRS Nov. 2015 6308-6314*
- Automatic Construction of 3-D Building Model From Airborne LIDAR Data Through 2-D Snake Algorithm. *Yan, J.*, +, *TGRS Jan. 2015 3-14*
- On-Orbit Radiometric Calibration of Suomi NPP VIIRS Reflective Solar Bands Through Observations of a Sunlit Solar Diffuser Panel. *Lei, N.*, +, *TGRS Nov. 2015 5983-5990*
- Retrieval of Higher Order Ocean Spectral Information From Sunlint. *Cureton, G.P.*, *TGRS Jan. 2015 36-50*
- RPC Estimation via ℓ_1 -Norm-Regularized Least Squares (L1LS). *Long, T.*, +, *TGRS Aug. 2015 4554-4567*
- Principal component analysis**
- CAESAR: An Approach Based on Covariance Matrix Decomposition to Improve Multibaseline-Multitemporal Interferometric SAR Processing. *Fornaro, G.*, +, *TGRS April 2015 2050-2065*
- Dynamical Approach for Real-Time Monitoring of Agricultural Crops. *Vicente-Guijalba, F.*, +, *TGRS June 2015 3278-3293*
- Model-Based Fusion of Multi- and Hyperspectral Images Using PCA and Wavelets. *Palsson, F.*, +, *TGRS May 2015 2652-2663*
- Novel Two-Dimensional Singular Spectrum Analysis for Effective Feature Extraction and Data Classification in Hyperspectral Imaging. *Zabalza, J.*, +, *TGRS Aug. 2015 4418-4433*
- Polarimetric Incoherent Target Decomposition by Means of Independent Component Analysis. *Besic, N.*, +, *TGRS March 2015 1236-1247*
- Semisupervised Transfer Component Analysis for Domain Adaptation in Remote Sensing Image Classification. *Matasci, G.*, +, *TGRS July 2015 3550-3564*
- Spaceborne Earth-Observing Optical Sensor Static Capability Index for Clustering. *Chen, N.*, +, *TGRS Oct. 2015 5504-5518*
- Spectral-Spatial Classification for Hyperspectral Data Using Rotation Forests With Local Feature Extraction and Markov Random Fields. *Xia, J.*, +, *TGRS May 2015 2532-2546*
- Probability**
- A Bayesian Network-Based Method to Alleviate the Ill-Posed Inverse Problem: A Case Study on Leaf Area Index and Canopy Water Content Retrieval. *Quan, X.*, +, *TGRS Dec. 2015 6507-6517*
- A Semiautomated Probabilistic Framework for Tree-Cover Delineation From 1-m NAIP Imagery Using a High-Performance Computing Architecture. *Basu, S.*, +, *TGRS Oct. 2015 5690-5708*
- An Ocean Wind Doppler Model Based on the Generalized Curvature Ocean Surface Scattering Model. *Said, F.*, +, *TGRS Dec. 2015 6632-6638*
- Conditional Random Fields for Multitemporal and Multiscale Classification of Optical Satellite Imagery. *Hoberg, T.*, +, *TGRS Feb. 2015 659-673*
- Downscaling Satellite-Based Soil Moisture in Heterogeneous Regions Using High-Resolution Remote Sensing Products and Information Theory: A Synthetic Study. *Chakrabarti, S.*, +, *TGRS Jan. 2015 85-101*
- Extended Random Walker-Based Classification of Hyperspectral Images. *Kang, X.*, +, *TGRS Jan. 2015 144-153*

Including Antenna Mispointing in a Semi-Analytical Model for Delay/Doppler Altimetry. *Halimi, A., +, TGRS Feb. 2015 598-608*

Indicator Cokriging-Based Subpixel Mapping Without Prior Spatial Structure Information. *Wang, Q., +, TGRS Jan. 2015 309-323*

Iterative Hyperspectral Image Classification Using Spectral-Spatial Relationship Features. *Guccione, P., +, TGRS July 2015 3615-3627*

Minimum Volume Simplex Analysis: A Fast Algorithm for Linear Hyperspectral Unmixing. *Li, J., +, TGRS Sept. 2015 5067-5082*

On Detectability of a Ship's Kelvin Wake in Simulated SAR Images of Rough Sea Surface. *Zilman, G., +, TGRS Feb. 2015 609-619*

On the Feasibility of Characterizing Soil Properties From AVIRIS Data. *Dutta, D., +, TGRS Sept. 2015 5133-5147*

Retrieval of Higher Order Ocean Spectral Information From Sunlight. *Cureton, G.P., TGRS Jan. 2015 36-50*

Semisupervised Hyperspectral Classification Using Task-Driven Dictionary Learning With Laplacian Regularization. *Wang, Z., +, TGRS March 2015 1161-1173*

Spectral-Spatial Classification of Hyperspectral Images via Spatial Translation-Invariant Wavelet-Based Sparse Representation. *He, L., +, TGRS May 2015 2696-2712*

Q

Quality control

ASCAT Wind Quality Control Near Rain. *Lin, W., +, TGRS Aug. 2015 4165-4177*

Quantization (signal)

Quantization Effects in TanDEM-X Data. *Martone, M., +, TGRS Feb. 2015 583-597*

Remote Sensing Image Matching Based on Adaptive Binning SIFT Descriptor. *Sedaghat, A., +, TGRS Oct. 2015 5283-5293*

R

Radar

Impact of Diurnal Variation in Vegetation Water Content on Radar Backscatter From Maize During Water Stress. *van Emmerik, T., +, TGRS July 2015 3855-3869*

Radar altimetry

Fine-Resolution Radar Altimeter Measurements on Land and Sea Ice. *Patel, A., +, TGRS May 2015 2547-2564*

HY-2A Radar Altimeter Ultraprecise Oscillator Drift Estimation Using Reconstructive Transponder With Its Validation By Multimission Cross Calibration. *Wan, J., +, TGRS Sept. 2015 5229-5236*

Including Antenna Mispointing in a Semi-Analytical Model for Delay/Doppler Altimetry. *Halimi, A., +, TGRS Feb. 2015 598-608*

Radar antennas

A Performance Evaluation of SAR-GMTI Missions for Maritime Applications. *Makhoul, E., +, TGRS May 2015 2496-2509*

Coaxial-Fed Circular Dipole Array Antenna With Ferrite Loading for Thin Directional Borehole Radar Sonde. *Ebihara, S., +, TGRS April 2015 1842-1854*

Doppler-Related Distortions in TOPS SAR Images. *Rodriguez-Cassola, M., +, TGRS Jan. 2015 25-35*

Fast Analysis of C-Scans From Ground Penetrating Radar via 3-D Haar-Like Features With Application to Landmine Detection. *Klesk, P., +, TGRS July 2015 3996-4009*

Geometry-Information-Aided Efficient Radial Velocity Estimation for Moving Target Imaging and Location Based on Radon Transform. *Zhang, X., +, TGRS Feb. 2015 1105-1117*

Impact of Receiver Saturation on Surface Doppler Velocity Measurements From the EarthCARE Cloud Profiling Radar. *Battaglia, A., +, TGRS March 2015 1205-1212*

Improving Target Detection Accuracy Based on Multipolarization MIMO GPR. *Zeng, Z., +, TGRS Jan. 2015 15-24*

Including Antenna Mispointing in a Semi-Analytical Model for Delay/Doppler Altimetry. *Halimi, A., +, TGRS Feb. 2015 598-608*

KAIRA: The Kilpisjärvi Atmospheric Imaging Receiver Array—System Overview and First Results. *McKay-Bukowski, D., +, TGRS March 2015 1440-1451*

Spaceborne MIMO Synthetic Aperture Radar for Multimodal Operation. *Kim, J., +, TGRS May 2015 2453-2466*

Using Ice Clouds for Mitigating the EarthCARE Doppler Radar Mispointing. *Battaglia, A., +, TGRS April 2015 2079-2085*

Radar clutter

A Subspace Projection Approach for Wall Clutter Mitigation in Through-the-Wall Radar Imaging. *Tivive, F.H.C., +, TGRS April 2015 2108-2122*

A Two-Component K -Lognormal Mixture Model and Its Parameter Estimation Method. *Zhou, X., +, TGRS May 2015 2640-2651*

An Improved M-PRT Technique for Spectral Analysis of Weather Radar Observations. *Tahanout, M., +, TGRS Oct. 2015 5572-5582*

An Improvement in Multichannel SAR-GMTI Detection in Heterogeneous Environments. *Liu, B., +, TGRS Feb. 2015 810-827*

Change Detection in Constellations of Buried Objects Extracted From Ground-Penetrating Radar Data. *Paglieroni, D.W., +, TGRS May 2015 2426-2439*

Direction-of-Arrival Estimation for Radar Ice Sounding Surface Clutter Suppression. *Nielsen, U., +, TGRS Sept. 2015 5170-5179*

Geometry-Information-Aided Efficient Radial Velocity Estimation for Moving Target Imaging and Location Based on Radon Transform. *Zhang, X., +, TGRS Feb. 2015 1105-1117*

Identification and Suppression of Nonmeteorological Echoes Using Spectral Polarimetric Processing. *Alku, L., +, TGRS July 2015 3628-3638*

Multiple Extended Target Tracking for Through-Wall Radars. *Gennarelli, G., +, TGRS Dec. 2015 6482-6494*

Robust Clutter Suppression and Moving Target Imaging Approach for Multichannel in Azimuth High-Resolution and Wide-Swath Synthetic Aperture Radar. *Zhang, S., +, TGRS Feb. 2015 687-709*

Wall Clutter Mitigation Using Discrete Prolate Spheroidal Sequences for Sparse Reconstruction of Indoor Stationary Scenes. *Ahmad, F., +, TGRS March 2015 1549-1557*

Radar computing

Fast Analysis of C-Scans From Ground Penetrating Radar via 3-D Haar-Like Features With Application to Landmine Detection. *Klesk, P., +, TGRS July 2015 3996-4009*

Multichannel Phase Unwrapping: Problem Topology and Dual-Level Parallel Computational Model. *Imperatore, P., +, TGRS Oct. 2015 5774-5793*

Novel Methods to Accelerate CS Radar Imaging by NUFFT. *Sun, S., +, TGRS Jan. 2015 557-566*

Radar cross-sections

An Imaging Compensation Algorithm for Correcting the Impact of Tropospheric Delay on Spaceborne High-Resolution SAR. *Yu, Z., +, TGRS Sept. 2015 4825-4836*

Correction to "Algorithm for Sea Surface Wind Retrieval From TerraSAR-X and TanDEM-X Data" [May 14 2928-2939]. *Li, X., +, TGRS Jan. 2015 578*

Future Ocean Scatterometry: On the Use of Cross-Polar Scattering to Observe Very High Winds. *Fois, F., +, TGRS Sept. 2015 5009-5020*

Improving Target Detection Accuracy Based on Multipolarization MIMO GPR. *Zeng, Z., +, TGRS Jan. 2015 15-24*

Radar detection

A Wavelet-Packet-Based Radar Waveform for High Resolution in Range and Velocity Detection. *Cao, S., +, TGRS Jan. 2015 229-243*

An Improvement in Multichannel SAR-GMTI Detection in Heterogeneous Environments. *Liu, B., +, TGRS Feb. 2015 810-827*

Building Change Detection in Multitemporal Very High Resolution SAR Images. *Marin, C., +, TGRS May 2015 2664-2682*

Change Detection in Constellations of Buried Objects Extracted From Ground-Penetrating Radar Data. *Paglieroni, D.W., +, TGRS May 2015 2426-2439*

Detection and Imaging of Ground Moving Targets With Real SAR Data. *Yang, J., +, TGRS Feb. 2015 920-932*

Fast Analysis of C-Scans From Ground Penetrating Radar via 3-D Haar-Like Features With Application to Landmine Detection. *Klesk, P., +, TGRS July 2015 3996-4009*

Improving Target Detection Accuracy Based on Multipolarization MIMO GPR. *Zeng, Z., +, TGRS Jan. 2015 15-24*

Knowledge-Based Multitarget Ship Tracking for HF Surface Wave Radar Systems. *Vivone, G., +, TGRS July 2015 3931-3949*

Multiple Extended Target Tracking for Through-Wall Radars. *Gennarelli, G., +, TGRS Dec. 2015 6482-6494*

Multiple-Instance Hidden Markov Model for GPR-Based Landmine Detection. *Manandhar, A., +, TGRS April 2015 1737-1745*

On Detectability of a Ship's Kelvin Wake in Simulated SAR Images of Rough Sea Surface. *Zilman, G.*, +, *TGRS Feb. 2015 609-619*

Radon-Linear Canonical Ambiguity Function-Based Detection and Estimation Method for Marine Target With Micromotion. *Chen, X.*, +, *TGRS April 2015 2225-2240*

Robust Clutter Suppression and Moving Target Imaging Approach for Multichannel in Azimuth High-Resolution and Wide-Swath Synthetic Aperture Radar. *Zhang, S.*, +, *TGRS Feb. 2015 687-709*

SAR Image Change Detection Based on Iterative Label-Information Composite Kernel Supervised by Anisotropic Texture. *Jia, L.*, +, *TGRS July 2015 3960-3973*

SAR-SIFT: A SIFT-Like Algorithm for SAR Images. *Dellinger, F.*, +, *TGRS Jan. 2015 453-466*

Spatial Decorrelation in GNSS-Based SAR Coherent Change Detection. *Zhang, Q.*, +, *TGRS Jan. 2015 219-228*

Ultrawideband Synthetic Aperture Radar for Respiratory Motion Detection. *Chen, T.*, +, *TGRS July 2015 3749-3763*

Radarg imaging

A Backscattering Model of Rainfall Over Rough Sea Surface for Synthetic Aperture Radar. *Xu, F.*, +, *TGRS June 2015 3042-3054*

A New Framework for SAR Multitemporal Data RGB Representation: Rationale and Products. *Amitrano, D.*, +, *TGRS Jan. 2015 117-133*

A Radon-Transform-Based Image Noise Filter—With Applications to Multibeam Bathymetry. *Landmark, K.*, +, *TGRS Nov. 2015 6252-6273*

A Self-Adaptive Wavelet-Based Algorithm for Wave Measurement Using Nautical Radar. *An, J.*, +, *TGRS Jan. 2015 567-577*

A Subspace Projection Approach for Wall Clutter Mitigation in Through-the-Wall Radar Imaging. *Tivive, F.H.C.*, +, *TGRS April 2015 2108-2122*

A Two-Component K -Lognormal Mixture Model and Its Parameter Estimation Method. *Zhou, X.*, +, *TGRS May 2015 2640-2651*

Adaptive Total Variation Regularization Based SAR Image Despeckling and Despeckling Evaluation Index. *Zhao, Y.*, +, *TGRS May 2015 2765-2774*

Adaptive-Window Polarimetric SAR Image Speckle Filtering Based on a Homogeneity Measurement. *Lang, F.*, +, *TGRS Oct. 2015 5435-5446*

Airborne SAR Moving Target Signatures and Imagery Based on LVD. *Yang, L.*, +, *TGRS Nov. 2015 5958-5971*

An Automatic U -Distribution and Markov Random Field Segmentation Algorithm for PolSAR Images. *Doulgeris, A.P.*, *TGRS April 2015 1819-1827*

An Imaging Compensation Algorithm for Correcting the Impact of Tropospheric Delay on Spaceborne High-Resolution SAR. *Yu, Z.*, +, *TGRS Sept. 2015 4825-4836*

Analysis of Multistatic Pixel Correlation in SAR. *Duersch, M.I.*, +, *TGRS Jan. 2015 362-374*

Anisotropic Phase Unwrapping for Synthetic Aperture Radar Interferometry. *Danudirdjo, D.*, +, *TGRS July 2015 4116-4126*

Building Change Detection in Multitemporal Very High Resolution SAR Images. *Marin, C.*, +, *TGRS May 2015 2664-2682*

Calibration of SAR Polarimetric Images by Means of a Covariance Matching Approach. *Villa, A.*, +, *TGRS Feb. 2015 674-686*

Characterization of Facade Regularities in High-Resolution SAR Images. *Auer, S.*, +, *TGRS May 2015 2727-2737*

Combination of H-Alpha Decomposition and Migration for Enhancing Subsurface Target Classification of GPR. *Feng, X.*, +, *TGRS Sept. 2015 4852-4861*

Correcting Distortion of Polarimetric SAR Data Induced by Ionospheric Scintillation. *Kim, J.S.*, +, *TGRS Dec. 2015 6319-6335*

Cubic Phase Distortion and Irregular Degradation on SAR Imaging Due to the Ionosphere. *Wang, C.*, +, *TGRS June 2015 3442-3451*

Detection and Imaging of Ground Moving Targets With Real SAR Data. *Yang, J.*, +, *TGRS Feb. 2015 920-932*

Doppler-Related Distortions in TOPS SAR Images. *Rodriguez-Cassola, M.*, +, *TGRS Jan. 2015 25-35*

Efficient Near-Field Imaging for Single-Borehole Radar With Widely Separated Transceivers. *Yang, H.*, +, *TGRS Oct. 2015 5327-5337*

Extraction of Structural and Dynamic Properties of Forests From Polarimetric-Interferometric SAR Data Affected by Temporal Decorrelation. *Lavalle, M.*, +, *TGRS Sept. 2015 4752-4767*

Fast Analysis of C-Scans From Ground Penetrating Radar via 3-D Haar-Like Features With Application to Landmine Detection. *Klesk, P.*, +, *TGRS July 2015 3996-4009*

Fast Statistically Homogeneous Pixel Selection for Covariance Matrix Estimation for Multitemporal InSAR. *Jiang, M.*, +, *TGRS March 2015 1213-1224*

Focused SAR Image Formation of Moving Targets Based on Doppler Parameter Estimation. *Noviello, C.*, +, *TGRS June 2015 3460-3470*

Future Ocean Scatterometry: On the Use of Cross-Polar Scattering to Observe Very High Winds. *Fois, F.*, +, *TGRS Sept. 2015 5009-5020*

Generalized Frequency Scaling and Backprojection for LFM-CW SAR Processing. *Zaugg, E.C.*, +, *TGRS July 2015 3600-3614*

Geometry-Information-Aided Efficient Radial Velocity Estimation for Moving Target Imaging and Location Based on Radon Transform. *Zhang, X.*, +, *TGRS Feb. 2015 1105-1117*

Ground Moving Target Trajectory Reconstruction in Single-Channel Circular SAR. *Poisson, J.*, +, *TGRS April 2015 1976-1984*

Hierarchical Conditional Random Fields Model for Semisupervised SAR Image Segmentation. *Zhang, P.*, +, *TGRS Sept. 2015 4933-4951*

Implementation of the OFDM Chirp Waveform on MIMO SAR Systems. *Wang, J.*, +, *TGRS Sept. 2015 5218-5228*

InSAR Image Regularization and DEM Error Correction With Fractal Surface Scattering Model. *Danudirdjo, D.*, +, *TGRS March 2015 1427-1439*

Interferometric Phase Image Estimation via Sparse Coding in the Complex Domain. *Hongxing, H.*, +, *TGRS May 2015 2587-2602*

Interval Edge Estimation in SAR Images. *Dias, L.*, +, *TGRS Feb. 2015 851-861*

ISAR Imaging of Nonuniformly Rotating Target Based on a Fast Parameter Estimation Algorithm of Cubic Phase Signal. *Zheng, J.*, +, *TGRS Sept. 2015 4727-4740*

LiDAR Strip Adjustment Using Multifeatures Matched With Aerial Images. *Zhang, Y.*, +, *TGRS Feb. 2015 976-987*

MIMO SAR OFDM Chirp Waveform Diversity Design With Random Matrix Modulation. *Wang, W.*, *TGRS March 2015 1615-1625*

Multiangle BSAR Imaging Based on BeiDou-2 Navigation Satellite System: Experiments and Preliminary Results. *Zeng, T.*, +, *TGRS Oct. 2015 5760-5773*

Novel Methods to Accelerate CS Radar Imaging by NUFFT. *Sun, S.*, +, *TGRS Jan. 2015 557-566*

OFDM Synthetic Aperture Radar Imaging With Sufficient Cyclic Prefix. *Zhang, T.*, +, *TGRS Jan. 2015 394-404*

On Detectability of a Ship's Kelvin Wake in Simulated SAR Images of Rough Sea Surface. *Zilman, G.*, +, *TGRS Feb. 2015 609-619*

Paddy-Rice Monitoring Using TanDEM-X. *Rossi, C.*, +, *TGRS Feb. 2015 900-910*

Parallel Branch-Cut Algorithm Based on Simulated Annealing for Large-Scale Phase Unwrapping. *Huang, Q.*, +, *TGRS July 2015 3833-3846*

Phase Inconsistencies and Multiple Scattering in SAR Interferometry. *De Zan, F.*, +, *TGRS Dec. 2015 6608-6616*

Phase Offset Calculation for Airborne InSAR DEM Generation Without Corner Reflectors. *Perna, S.*, +, *TGRS May 2015 2713-2726*

Precise Focusing of Airborne SAR Data With Wide Apertures Large Trajectory Deviations: A Chirp Modulated Back-Projection Approach. *Meng, D.*, +, *TGRS May 2015 2510-2519*

Reconstruction of Coherent Pairs of Synthetic Aperture Radar Data Acquired in Interrupted Mode. *Pinheiro, M.*, +, *TGRS April 2015 1876-1893*

Reduced Image Aliasing With Microwave Radiometers and Weather Radar Through Windowed Spatial Averaging. *McLinden, M.L.*, +, *TGRS Dec. 2015 6639-6649*

RFI Suppression Based on Phase-Coded Stepped-Frequency Waveform in Through-Wall Radar. *Li, T.*, +, *TGRS March 2015 1583-1591*

Robust Clutter Suppression and Moving Target Imaging Approach for Multichannel in Azimuth High-Resolution and Wide-Swath Synthetic Aperture Radar. *Zhang, S.*, +, *TGRS Feb. 2015 687-709*

SAR Image Change Detection Based on Iterative Label-Information Composite Kernel Supervised by Anisotropic Texture. *Jia, L.*, +, *TGRS July 2015 3960-3973*

SAR-SIFT: A SIFT-Like Algorithm for SAR Images. *Dellinger, F.*, +, *TGRS Jan. 2015 453-466*

Simulation of ISAR Imaging for a Space Target and Reconstruction Under Sparse Sampling via Compressed Sensing. *Wang, F.*, +, *TGRS June 2015 3432-3441*

Spaceborne MIMO Synthetic Aperture Radar for Multimodal Operation. *Kim, J.*, +, *TGRS May 2015 2453-2466*

Spatial Decorrelation in GNSS-Based SAR Coherent Change Detection. *Zhang, Q.*, +, *TGRS Jan. 2015 219-228*

Subaperture Approach Based on Azimuth-Dependent Range Cell Migration Correction and Azimuth Focusing Parameter Equalization for Maneuvering High-Squint-Mode SAR. *Zeng, T.*, +, *TGRS Dec. 2015 6718-6734*

Tensorial Independent Component Analysis-Based Feature Extraction for Polarimetric SAR Data Classification. *Tao, M.*, +, *TGRS May 2015 2481-2495*

Texture-Based Automatic Separation of Echoes from Distributed Moving Targets in UWB Radar Signals. *Sakamoto, T.*, +, *TGRS Jan. 2015 352-361*
The Characteristics of the Multipath Scattering and the Application for Geometry Extraction in High-Resolution SAR Images. *Zhang, Y.*, +, *TGRS Aug. 2015 4687-4699*

Theory of Two-Dimensional Signature Morphology for Arbitrarily Moving Surface Targets in Squinted Spotlight Synthetic Aperture Radar. *Garren, D.A.*, *TGRS Sept. 2015 4997-5008*

Three-Dimensional Scattering Center Extraction Based on Wide Aperture Data at a Single Elevation. *Zhou, J.*, +, *TGRS March 2015 1638-1655*

Two-Stage Change Detection for Synthetic Aperture Radar. *Cha, M.*, +, *TGRS Dec. 2015 6547-6560*

Ultrawideband Synthetic Aperture Radar for Respiratory Motion Detection. *Chen, T.*, +, *TGRS July 2015 3749-3763*

Wall Clutter Mitigation Using Discrete Prolate Spheroidal Sequences for Sparse Reconstruction of Indoor Stationary Scenes. *Ahmad, F.*, +, *TGRS March 2015 1549-1557*

Radar interference

OFDM Synthetic Aperture Radar Imaging With Sufficient Cyclic Prefix. *Zhang, T.*, +, *TGRS Jan. 2015 394-404*

Radar interferometry

A Cluster-Analysis-Based Noise-Robust Phase-Unwrapping Algorithm for Multibaseline Interferograms. *Liu, H.*, +, *TGRS Jan. 2015 494-504*

A Multidimensional Extension of the Concept of Coherence in Polarimetric SAR Interferometry. *Alvarez-Perez, J.L.*, *TGRS March 2015 1257-1270*

A New Framework for SAR Multitemporal Data RGB Representation: Rationale and Products. *Amitrano, D.*, +, *TGRS Jan. 2015 117-133*

A Performance Evaluation of SAR-GMTI Missions for Maritime Applications. *Makhoul, E.*, +, *TGRS May 2015 2496-2509*

An Improvement of Ionospheric Phase Correction by Multiple-Aperture Interferometry. *Jung, H.*, +, *TGRS Sept. 2015 4952-4960*

Anisotropic Phase Unwrapping for Synthetic Aperture Radar Interferometry. *Danudirdjo, D.*, +, *TGRS July 2015 4116-4126*

CAESAR: An Approach Based on Covariance Matrix Decomposition to Improve Multibaseline-Multitemporal Interferometric SAR Processing. *Fornaro, G.*, +, *TGRS April 2015 2050-2065*

Corrections to "Estimation of Forest Biomass From Two-Level Model Inversion of Single-Pass InSAR Data" {Sep 15 5083-5099}. *Soja, M.J.*, +, *TGRS Oct. 2015 5795*

Deformation Parameter Estimation in Low Coherence Areas Using a Multisatellite InSAR Approach. *Morishita, Y.*, +, *TGRS Aug. 2015 4275-4283*

Detection of Moving Ships Based on a Combination of Magnitude and Phase in Along-Track Interferometric SAR—Part I: SIMP Metric and Its Performance. *Gao, G.*, +, *TGRS July 2015 3565-3581*

Detection of Moving Ships Based on a Combination of Magnitude and Phase in Along-Track Interferometric SAR—Part II: Statistical Modeling and CFAR Detection. *Gao, G.*, +, *TGRS July 2015 3582-3599*

Doppler-Related Distortions in TOPS SAR Images. *Rodriguez-Cassola, M.*, +, *TGRS Jan. 2015 25-35*

Estimating Forest Biomass From TerraSAR-X Stripmap Radargrammetry. *Solberg, S.*, +, *TGRS Jan. 2015 154-161*

Estimation of Forest Biomass From Two-Level Model Inversion of Single-Pass InSAR Data. *Soja, M.J.*, +, *TGRS Sept. 2015 5083-5099*

Experimental Results and Algorithm Analysis of DEM Generation Using Bistatic SAR Interferometry With Stationary Receiver. *Zeng, T.*, +, *TGRS Nov. 2015 5835-5852*

Extraction of Structural and Dynamic Properties of Forests From Polarimetric-Interferometric SAR Data Affected by Temporal Decorrelation. *Lavalle, M.*, +, *TGRS Sept. 2015 4752-4767*

Fast Statistically Homogeneous Pixel Selection for Covariance Matrix Estimation for Multitemporal InSAR. *Jiang, M.*, +, *TGRS March 2015 1213-1224*

Forest Height Estimation by Means of Pol-InSAR Data Inversion: The Role of the Vertical Wavenumber. *Kugler, F.*, +, *TGRS Oct. 2015 5294-5311*

Geodetic Network Design for InSAR. *Mahapatra, P.S.*, +, *TGRS July 2015 3669-3680*

InSAR Assessment of Surface Deformations in Urban Coastal Terrains Associated With Groundwater Dynamics. *Normand, J.C.L.*, +, *TGRS Dec. 2015 6356-6371*

InSAR Image Regularization and DEM Error Correction With Fractal Surface Scattering Model. *Danudirdjo, D.*, +, *TGRS March 2015 1427-1439*

Interferometric Phase Image Estimation via Sparse Coding in the Complex Domain. *Hongxing, H.*, +, *TGRS May 2015 2587-2602*

NL-SAR: A Unified Nonlocal Framework for Resolution-Preserving (Pol)(In)SAR Denoising. *Deledalle, C.*, +, *TGRS April 2015 2021-2038*

Normalization of TanDEM-X DSM Data in Urban Environments With Morphological Filters. *Geiss, C.*, +, *TGRS Aug. 2015 4348-4362*

Paddy-Rice Monitoring Using TanDEM-X. *Rossi, C.*, +, *TGRS Feb. 2015 900-910*

Parallel Branch-Cut Algorithm Based on Simulated Annealing for Large-Scale Phase Unwrapping. *Huang, Q.*, +, *TGRS July 2015 3833-3846*

Phase Inconsistencies and Multiple Scattering in SAR Interferometry. *De Zan, F.*, +, *TGRS Dec. 2015 6608-6616*

Phase Offset Calculation for Airborne InSAR DEM Generation Without Corner Reflectors. *Perna, S.*, +, *TGRS May 2015 2713-2726*

PolInSAR Coherence Region Modeling and Inversion: The Best Normal Matrix Approximation Solution. *Cui, Y.*, +, *TGRS Feb. 2015 1048-1060*

Quantization Effects in TanDEM-X Data. *Martone, M.*, +, *TGRS Feb. 2015 583-597*

Reconstruction of Coherent Pairs of Synthetic Aperture Radar Data Acquired in Interrupted Mode. *Pinheiro, M.*, +, *TGRS April 2015 1876-1893*

Robust Reconstruction of Building Facades for Large Areas Using Spaceborne TomoSAR Point Clouds. *Shahzad, M.*, +, *TGRS Feb. 2015 752-769*

Sensitivity of Pol-InSAR Measurements to Vegetation Parameters. *Oveisgharan, S.*, +, *TGRS Dec. 2015 6561-6572*

Simulation of the SuperSAR Multi-Azimuth Synthetic Aperture Radar Imaging System for Precise Measurement of Three-Dimensional Earth Surface Displacement. *Jung, H.*, +, *TGRS Nov. 2015 6196-6206*

Spaceborne MIMO Synthetic Aperture Radar for Multimodal Operation. *Kim, J.*, +, *TGRS May 2015 2453-2466*

Sparse Regularization of Interferometric Phase and Amplitude for InSAR Image Formation Based on Bayesian Representation. *Xu, G.*, +, *TGRS April 2015 2123-2136*

Temporal Decorrelation in L-, C-, and X-band Satellite Radar Interferometry for Pasture on Drained Peat Soils. *Morishita, Y.*, +, *TGRS Feb. 2015 1096-1104*

Temporal Stability of X-Band Single-Pass InSAR Heights in a Spruce Forest: Effects of Acquisition Properties and Season. *Solberg, S.*, +, *TGRS March 2015 1607-1614*

X-Band Interferometric SAR Observations of Baltic Fast Ice. *Berg, A.*, +, *TGRS March 2015 1248-1256*

Radar polarimetry

A Multidimensional Extension of the Concept of Coherence in Polarimetric SAR Interferometry. *Alvarez-Perez, J.L.*, *TGRS March 2015 1257-1270*

A Self-Adaptive Wavelet-Based Algorithm for Wave Measurement Using Nautical Radar. *An, J.*, +, *TGRS Jan. 2015 567-577*

A Simplified Formulation for Rough Surface Cross-Polarized Backscattering Under the Second-Order Small-Slope Approximation. *Guerin, C.*, +, *TGRS Nov. 2015 6308-6314*

Adaptive-Window Polarimetric SAR Image Speckle Filtering Based on a Homogeneity Measurement. *Lang, F.*, +, *TGRS Oct. 2015 5435-5446*

An Automatic U -Distribution and Markov Random Field Segmentation Algorithm for PolSAR Images. *Doulgeris, A.P.*, *TGRS April 2015 1819-1827*

Averaged Stokes Vector Based Polarimetric SAR Data Interpretation. *Shang, F.*, +, *TGRS Aug. 2015 4536-4547*

Calibration of SAR Polarimetric Images by Means of a Covariance Matching Approach. *Villa, A.*, +, *TGRS Feb. 2015 674-686*

Characterization and Correction of Multilook Effects on Eigendecomposition Parameters in PolSAR Images. *Yahia, M.*, +, *TGRS Sept. 2015 5237-5246*

Combination of H-Alpha Decomposition and Migration for Enhancing Subsurface Target Classification of GPR. *Feng, X.*, +, *TGRS Sept. 2015 4852-4861*

Comparison of Theoretical Biases in Estimating Polarimetric Properties of Precipitation With Weather Radar Using Parabolic Reflector, or Planar and Cylindrical Arrays. *Lei, L.*, +, *TGRS Aug. 2015 4313-4327*

Correcting Distortion of Polarimetric SAR Data Induced by Ionospheric Scintillation. *Kim, J.S.*, +, *TGRS Dec. 2015 6319-6335*

Direction-of-Arrival Estimation for Radar Ice Sounding Surface Clutter Suppression. *Nielsen, U.*, +, *TGRS Sept. 2015 5170-5179*

Dynamical Approach for Real-Time Monitoring of Agricultural Crops. *Vicente-Guijalba, F.*, +, *TGRS June 2015 3278-3293*

Extracting Migrant Flight Orientation Profiles Using Polarimetric Radar. *Stepanian, P.M.*, +, *TGRS Dec. 2015 6518-6528*

- Extraction of Structural and Dynamic Properties of Forests From Polarimetric-Interferometric SAR Data Affected by Temporal Decorrelation. *Lavalle, M.*, +, *TGRS Sept. 2015 4752-4767*
- Forest Height Estimation by Means of Pol-InSAR Data Inversion: The Role of the Vertical Wavenumber. *Kugler, F.*, +, *TGRS Oct. 2015 5294-5311*
- Future Ocean Scatterometry: On the Use of Cross-Polar Scattering to Observe Very High Winds. *Fois, F.*, +, *TGRS Sept. 2015 5009-5020*
- Identification and Suppression of Nonmeteorological Echoes Using Spectral Polarimetric Processing. *Alku, L.*, +, *TGRS July 2015 3628-3638*
- Modeling and Measurement of C-Band Radar Backscatter From Snow-Covered First-Year Sea Ice. *Komarov, A.S.*, +, *TGRS July 2015 4063-4078*
- NL-SAR: A Unified Nonlocal Framework for Resolution-Preserving (Pol)(In)SAR Denoising. *Deledalle, C.*, +, *TGRS April 2015 2021-2038*
- Optimization of the Degree of Polarization for Enhanced Ship Detection Using Polarimetric RADARSAT-2. *Touzi, R.*, +, *TGRS Oct. 2015 5403-5424*
- Optimizing Radiation Patterns of a Cylindrical Polarimetric Phased-Array Radar for Multimissions. *Karimkashi, S.*, +, *TGRS May 2015 2810-2818*
- Paddy-Rice Monitoring Using TanDEM-X. *Rossi, C.*, +, *TGRS Feb. 2015 900-910*
- Polarimetric Incoherent Target Decomposition by Means of Independent Component Analysis. *Besic, N.*, +, *TGRS March 2015 1236-1247*
- Polarimetric SAR Speckle Filtering and the Extended Sigma Filter. *Lee, J.*, +, *TGRS March 2015 1150-1160*
- PolInSAR Coherence Region Modeling and Inversion: The Best Normal Matrix Approximation Solution. *Cui, Y.*, +, *TGRS Feb. 2015 1048-1060*
- Representation and Spatially Adaptive Segmentation for PolSAR Images Based on Wedgelet Analysis. *Liu, B.*, +, *TGRS Sept. 2015 4797-4809*
- Sensitivity of Pol-InSAR Measurements to Vegetation Parameters. *Oveisharan, S.*, +, *TGRS Dec. 2015 6561-6572*
- Soil Moisture Estimation Under Tropical Forests Using UHF Radar Polarimetry. *Truong-Loi, M.*, +, *TGRS April 2015 1718-1727*
- Spaceborne MIMO Synthetic Aperture Radar for Multimodal Operation. *Kim, J.*, +, *TGRS May 2015 2453-2466*
- Statistical Tests for a Ship Detector Based on the Polarimetric Notch Filter. *Marino, A.*, +, *TGRS Aug. 2015 4578-4595*
- Tensorial Independent Component Analysis-Based Feature Extraction for Polarimetric SAR Data Classification. *Tao, M.*, +, *TGRS May 2015 2481-2495*
- Topography Retrieval From Single-Pass POLSAR Data Based on the Polarization-Dependent Intensity Ratio. *Li, Y.*, +, *TGRS June 2015 3160-3177*
- UAVSAR Polarimetric Calibration. *Fore, A.G.*, +, *TGRS June 2015 3481-3491*
- Radar receivers**
- Analysis of Multistatic Pixel Correlation in SAR. *Duersch, M.I.*, +, *TGRS Jan. 2015 362-374*
- Efficient Near-Field Imaging for Single-Borehole Radar With Widely Separated Transceivers. *Yang, H.*, +, *TGRS Oct. 2015 5327-5337*
- Real-Time Noise Estimation and Correction in Dual-Polarization Radar Systems. *Beauchamp, R.M.*, +, *TGRS Nov. 2015 6183-6195*
- Spatial Decorrelation in GNSS-Based SAR Coherent Change Detection. *Zhang, Q.*, +, *TGRS Jan. 2015 219-228*
- Radar resolution**
- A Wavelet-Packet-Based Radar Waveform for High Resolution in Range and Velocity Detection. *Cao, S.*, +, *TGRS Jan. 2015 229-243*
- Building Change Detection in Multitemporal Very High Resolution SAR Images. *Marin, C.*, +, *TGRS May 2015 2664-2682*
- Efficient Near-Field Imaging for Single-Borehole Radar With Widely Separated Transceivers. *Yang, H.*, +, *TGRS Oct. 2015 5327-5337*
- Improving Target Detection Accuracy Based on Multipolarization MIMO GPR. *Zeng, Z.*, +, *TGRS Jan. 2015 15-24*
- Reduced Image Aliasing With Microwave Radiometers and Weather Radar Through Windowed Spatial Averaging. *McLinden, M.L.*, +, *TGRS Dec. 2015 6639-6649*
- RES Signatures of Ice Bottom Near to Dome C (Antarctica). *Urbini, S.*, +, *TGRS March 2015 1558-1564*
- Ultrawideband Synthetic Aperture Radar for Respiratory Motion Detection. *Chen, T.*, +, *TGRS July 2015 3749-3763*
- Radar signal processing**
- An Improved M-PRT Technique for Spectral Analysis of Weather Radar Observations. *Tahanout, M.*, +, *TGRS Oct. 2015 5572-5582*
- CAESAR: An Approach Based on Covariance Matrix Decomposition to Improve Multibaseline-Multitemporal Interferometric SAR Processing. *Fornaro, G.*, +, *TGRS April 2015 2050-2065*
- Direction-of-Arrival Estimation for Radar Ice Sounding Surface Clutter Suppression. *Nielsen, U.*, +, *TGRS Sept. 2015 5170-5179*
- Discrimination of Buried Objects in Impulse GPR Using Phase Retrieval Technique. *Huuskonen-Snicker, E.*, +, *TGRS Feb. 2015 1001-1007*
- Identification and Suppression of Nonmeteorological Echoes Using Spectral Polarimetric Processing. *Alku, L.*, +, *TGRS July 2015 3628-3638*
- Polarimetric Incoherent Target Decomposition by Means of Independent Component Analysis. *Besic, N.*, +, *TGRS March 2015 1236-1247*
- Quantization Effects in TanDEM-X Data. *Martone, M.*, +, *TGRS Feb. 2015 583-597*
- Temporal Filtering of InSAR Data Using Statistical Parameters From NWP Models. *Gong, W.*, +, *TGRS July 2015 4033-4044*
- Radar target recognition**
- Three-Dimensional Scattering Center Extraction Based on Wide Aperture Data at a Single Elevation. *Zhou, J.*, +, *TGRS March 2015 1638-1655*
- Radar tracking**
- Knowledge-Based Multitarget Ship Tracking for HF Surface Wave Radar Systems. *Vivone, G.*, +, *TGRS July 2015 3931-3949*
- Multiple Extended Target Tracking for Through-Wall Radars. *Gennarelli, G.*, +, *TGRS Dec. 2015 6482-6494*
- Radon-Linear Canonical Ambiguity Function-Based Detection and Estimation Method for Marine Target With Micromotion. *Chen, X.*, +, *TGRS April 2015 2225-2240*
- Three-Dimensional Scattering Center Extraction Based on Wide Aperture Data at a Single Elevation. *Zhou, J.*, +, *TGRS March 2015 1638-1655*
- Radar transmitters**
- Analysis of Multistatic Pixel Correlation in SAR. *Duersch, M.I.*, +, *TGRS Jan. 2015 362-374*
- Efficient Near-Field Imaging for Single-Borehole Radar With Widely Separated Transceivers. *Yang, H.*, +, *TGRS Oct. 2015 5327-5337*
- Spatial Decorrelation in GNSS-Based SAR Coherent Change Detection. *Zhang, Q.*, +, *TGRS Jan. 2015 219-228*
- Radial basis function networks**
- Fast Subpixel Mapping Algorithms for Subpixel Resolution Change Detection. *Wang, Q.*, +, *TGRS April 2015 1692-1706*
- Radiative transfer**
- A Backscattering Model of Rainfall Over Rough Sea Surface for Synthetic Aperture Radar. *Xu, F.*, +, *TGRS June 2015 3042-3054*
- A Dense Medium Microwave Backscattering Model for the Remote Sensing of Oil Palm. *Teng, K.C.*, +, *TGRS June 2015 3250-3259*
- A New Hybrid Snow Light Scattering Model Based on Geometric Optics Theory and Vector Radiative Transfer Theory. *Xiong, C.*, +, *TGRS Sept. 2015 4862-4875*
- Classification of Alaska Spring Thaw Characteristics Using Satellite L-Band Radar Remote Sensing. *Du, J.*, +, *TGRS Jan. 2015 542-556*
- Error Characterization of Coupled Land Surface-Radiative Transfer Models for Snow Microwave Radiance Assimilation. *Kwon, Y.*, +, *TGRS Sept. 2015 5247-5268*
- Estimation of Hydraulic Properties of a Sandy Soil Using Ground-Based Active and Passive Microwave Remote Sensing. *Jonard, F.*, +, *TGRS June 2015 3095-3109*
- Future Ocean Scatterometry: On the Use of Cross-Polar Scattering to Observe Very High Winds. *Fois, F.*, +, *TGRS Sept. 2015 5009-5020*
- High-Resolution Maps of Bathymetry and Benthic Habitats in Shallow-Water Environments Using Multispectral Remote Sensing Imagery. *Eugenio, F.*, +, *TGRS July 2015 3539-3549*
- Intercalibration and Validation of Observations From ATMS and SAPHIR Microwave Sounders. *Moradi, I.*, +, *TGRS Nov. 2015 5915-5925*
- Large-Scale High-Resolution Modeling of Microwave Radiance of a Deep Maritime Alpine Snowpack. *Li, D.*, +, *TGRS May 2015 2308-2322*
- Modeling L-Band Brightness Temperature at Dome C in Antarctica and Comparison With SMOS Observations. *Leduc-Leballeur, M.*, +, *TGRS July 2015 4022-4032*
- Retrieving Layer-Averaged Tropospheric Humidity From Advanced Technology Microwave Sounder Water Vapor Channels. *Moradi, I.*, +, *TGRS Dec. 2015 6675-6688*
- Simulation of Airborne Radiometric Detection of Wake Vortices. *Daniels, T.*, +, *TGRS Dec. 2015 6336-6343*
- Radioastronomical techniques**
- KAIRA: The Kilpisjärvi Atmospheric Imaging Receiver Array—System Overview and First Results. *McKay-Bukowski, D.*, +, *TGRS March 2015 1440-1451*

Radiofrequency interference

- A Methodology to Determine Radio-Frequency Interference in AMSR2 Observations. *de Nijs, A.H.A.*, +, *TGRS Sept. 2015 5148-5159*
- Adaptive Control of Undetected Radio Frequency Interference With a Spaceborne Microwave Radiometer. *Chen, D.D.*, +, *TGRS Sept. 2015 4972-4984*
- RFI Suppression Based on Phase-Coded Stepped-Frequency Waveform in Through-Wall Radar. *Li, T.*, +, *TGRS March 2015 1583-1591*

Radiometers

- A Cumulative Distribution Function Method for Normalizing Variable-Angle Microwave Observations. *Ye, N.*, +, *TGRS July 2015 3906-3916*
- Characterizing the Aerosol and Surface Reflectance Over Australia Using AATSR. *Qin, Y.*, +, *TGRS Nov. 2015 6163-6182*
- Design and Characterization of a Peltier-Cold Calibration Target for a 110-GHz Radiometer. *Fernandez, S.*, +, *TGRS Jan. 2015 344-351*
- Evaluation of a MISR-Based High-Resolution Aerosol Retrieval Method Using AERONET DRAGON Campaign Data. *Moon, T.*, +, *TGRS Aug. 2015 4328-4339*
- Imaging Analysis and First Results of the Geostationary Interferometric Microwave Sounder Demonstrator. *Zhang, C.*, +, *TGRS Jan. 2015 207-218*
- Investigation of the Electronic Crosstalk in Terra MODIS Band 28. *Sun, J.*, +, *TGRS Oct. 2015 5722-5733*
- Modeling the Detector Radiometric Gains of the Suomi NPP VIIRS Reflective Solar Bands. *Lei, N.*, +, *TGRS March 2015 1565-1573*
- On-Orbit Characterization of S-NPP VIIRS Transmission Functions. *McIntire, J.*, +, *TGRS May 2015 2354-2365*
- On-Orbit Radiometric Calibration of Suomi NPP VIIRS Reflective Solar Bands Through Observations of a Sunlit Solar Diffuser Panel. *Lei, N.*, +, *TGRS Nov. 2015 5983-5990*
- Postlaunch Calibration Update of MetOp-B AVHRR Reflective Solar Channels Using MetOp-A. *Chang, T.*, +, *TGRS May 2015 2286-2294*
- Prelaunch Radiometric Characterization and Calibration of the S-NPP VIIRS Sensor. *Oudrari, H.*, +, *TGRS April 2015 2195-2210*
- Simulation of Airborne Radiometric Detection of Wake Vortices. *Daniels, T.*, +, *TGRS Dec. 2015 6336-6343*
- Terra and Aqua MODIS Thermal Emissive Bands On-Orbit Calibration and Performance. *Xiong, X.*, +, *TGRS Oct. 2015 5709-5721*
- Uncertainty Evaluation of an In-Flight Absolute Radiometric Calibration Using a Statistical Monte Carlo Method. *Chen, W.*, +, *TGRS May 2015 2925-2934*

Radiometry

- A Methodology to Determine Radio-Frequency Interference in AMSR2 Observations. *de Nijs, A.H.A.*, +, *TGRS Sept. 2015 5148-5159*
- A Model for the Complex Dielectric Constant of Supercooled Liquid Water at Microwave Frequencies. *Rosenkranz, P.W.*, *TGRS March 2015 1387-1393*
- A New Method for Suomi-NPP VIIRS Day-Night Band On-Orbit Radiometric Calibration. *Lee, S.*, +, *TGRS Jan. 2015 324-334*
- Adaptive Control of Undetected Radio Frequency Interference With a Spaceborne Microwave Radiometer. *Chen, D.D.*, +, *TGRS Sept. 2015 4972-4984*
- Advanced Microwave Atmospheric Sounder (AMAS) Channel Specifications and T/V Calibration Results on FY-3C Satellite. *Jieying, H.*, +, *TGRS Jan. 2015 481-493*
- An Error-Bound-Regularized Sparse Coding for Spatiotemporal Reflectance Fusion. *Wu, B.*, +, *TGRS Dec. 2015 6791-6803*
- Calibration and Evaluation of Precipitable Water Vapor From MODIS Infrared Observations at Night. *Chang, L.*, +, *TGRS May 2015 2612-2620*
- Correction of Stray-Light-Driven Interslot Radiometric Discrepancy (ISR) Present in Radiometric Products of Geostationary Ocean Color Imager (GOCI). *Kim, W.*, +, *TGRS Oct. 2015 5458-5472*
- Current Motion Tracking from Satellite Image Sequence With Global Similarity Optimization Model. *Chen, W.*, *TGRS Feb. 2015 1008-1015*
- Effect of the Polarization Leakage on the SMOS Image Reconstruction Algorithm: Validation Using Ocean Model and *In Situ* Soil Moisture Data. *Khazaal, A.*, +, *TGRS Sept. 2015 4961-4971*
- Empirical Waveform Decomposition and Radiometric Calibration of a Terrestrial Full-Waveform Laser Scanner. *Hartzell, P.J.*, +, *TGRS Jan. 2015 162-172*
- Future Ocean Scatterometry: On the Use of Cross-Polar Scattering to Observe Very High Winds. *Fois, F.*, +, *TGRS Sept. 2015 5009-5020*
- Hemispherical-Directional Reflectance (HDRF) of Windblown Snow-Covered Arctic Tundra at Large Solar Zenith Angles. *Ball, C.P.*, +, *TGRS Oct. 2015 5377-5387*

- Imaging Analysis and First Results of the Geostationary Interferometric Microwave Sounder Demonstrator. *Zhang, C.*, +, *TGRS Jan. 2015 207-218*
- Intercalibration and Validation of Observations From ATMS and SAPHIR Microwave Sounders. *Moradi, I.*, +, *TGRS Nov. 2015 5915-5925*
- Operational BRDF Effects Correction for Wide-Field-of-View Optical Scanners (BREFCOR). *Schlapfer, D.*, +, *TGRS April 2015 1855-1864*
- Radiometric Approach for Estimating Relative Changes in Intraglacier Average Temperature. *Jezeq, K.C.*, +, *TGRS Jan. 2015 134-143*
- Reduced Image Aliasing With Microwave Radiometers and Weather Radar Through Windowed Spatial Averaging. *McLinden, M.L.*, +, *TGRS Dec. 2015 6639-6649*
- S2eteS: An End-to-End Modeling Tool for the Simulation of Sentinel-2 Image Products. *Segl, K.*, +, *TGRS Oct. 2015 5560-5571*
- Satellite Microwave Retrieval of Total Precipitable Water Vapor and Surface Air Temperature Over Land From AMSR2. *Du, J.*, +, *TGRS May 2015 2520-2531*
- Shrunk Locally Linear Embedding for Passive Microwave Retrieval of Precipitation. *Ebtehaj, A.M.*, +, *TGRS July 2015 3720-3736*
- Spatial-Response Matched Filter and Its Application in Radiometric Accuracy Improvement of FY-2 Satellite Thermal Infrared Band. *Guo, Q.*, +, *TGRS May 2015 2397-2408*
- Systematic Error Compensation Based on a Rational Function Model for Ziyuan-1-02C. *Jiang, Y.*, +, *TGRS July 2015 3985-3995*
- The Radiometric Stability and Scaling of Collection 6 Terra- and Aqua-MODIS VIS, NIR, and SWIR Spectral Bands. *Doelling, D.R.*, +, *TGRS Aug. 2015 4520-4535*
- Thin Ice Detection in the Barents and Kara Seas With AMSR-E and SSMIS Radiometer Data. *Makynen, M.*, +, *TGRS Sept. 2015 5036-5053*
- Update of VIIRS On-Orbit Spatial Parameters Characterized With the Moon. *Wang, Z.*, +, *TGRS Oct. 2015 5486-5494*

Radiosondes

- Intercalibration and Validation of Observations From ATMS and SAPHIR Microwave Sounders. *Moradi, I.*, +, *TGRS Nov. 2015 5915-5925*

Radiowave interferometry

- KAIRA: The Kilpisjärvi Atmospheric Imaging Receiver Array—System Overview and First Results. *McKay-Bukowski, D.*, +, *TGRS March 2015 1440-1451*

Radiowave propagation

- Correcting Distortion of Polarimetric SAR Data Induced by Ionospheric Scintillation. *Kim, J.S.*, +, *TGRS Dec. 2015 6319-6335*
- The Impact of System Effects on Estimates of Faraday Rotation From Synthetic Aperture Radar Measurements. *Quegan, S.*, +, *TGRS Aug. 2015 4284-4298*

Radon transforms

- A Radon-Transform-Based Image Noise Filter—With Applications to Multibeam Bathymetry. *Landmark, K.*, +, *TGRS Nov. 2015 6252-6273*
- A Semiautomated Multilayer Picking Algorithm for Ice-Sheet Radar Echograms Applied to Ground-Based Near-Surface Data. *Onana, V.d.P.*, +, *TGRS Jan. 2015 51-69*
- Geometry-Information-Aided Efficient Radial Velocity Estimation for Moving Target Imaging and Location Based on Radon Transform. *Zhang, X.*, +, *TGRS Feb. 2015 1105-1117*
- On Detectability of a Ship's Kelvin Wake in Simulated SAR Images of Rough Sea Surface. *Zilman, G.*, +, *TGRS Feb. 2015 609-619*
- Radon-Linear Canonical Ambiguity Function-Based Detection and Estimation Method for Marine Target With Micromotion. *Chen, X.*, +, *TGRS April 2015 2225-2240*

Rain

- A Backscattering Model of Rainfall Over Rough Sea Surface for Synthetic Aperture Radar. *Xu, F.*, +, *TGRS June 2015 3042-3054*
- A Bayesian Method for Upsizing Single Disdrometer Drop Size Counts for Rain Physics Studies and Areal Applications. *Jameson, A.R.*, *TGRS Jan. 2015 335-343*
- A Bayesian Sparse Generalized Linear Model With an Application to Multi-scale Covariate Discovery for Observed Rainfall Extremes Over the United States. *Das, D.*, +, *TGRS Dec. 2015 6689-6702*
- An Improved M-PRT Technique for Spectral Analysis of Weather Radar Observations. *Tahanout, M.*, +, *TGRS Oct. 2015 5572-5582*
- ASCAT Wind Quality Control Near Rain. *Lin, W.*, +, *TGRS Aug. 2015 4165-4177*
- Estimation of Light Rainfall Using Ku-Band Dual-Polarization Radar. *Chen, H.*, +, *TGRS Sept. 2015 5197-5208*

- Evaluation of Precipitation Retrievals From Orbital Data Products of TRMM Over a Subtropical Basin in India. *Indu, J.*, +, *TGRS Dec. 2015* 6429-6442
- Intercomparison of Precipitation Estimates From WSR-88D Radar and TRMM Measurement Over Continental United States. *Chen, S.*, +, *TGRS Aug. 2015* 4444-4456
- Modeling Radar Attenuation by a Low Melting Layer With Optimized Model Parameters at C-Band. *von Lerber, A.*, +, *TGRS Feb. 2015* 724-737
- Real-Time GPS Precise Point Positioning-Based Precipitable Water Vapor Estimation for Rainfall Monitoring and Forecasting. *Shi, J.*, +, *TGRS June 2015* 3452-3459
- Sensitivity of PAZ LEO Polarimetric GNSS Radio-Occultation Experiment to Precipitation Events. *Cardellach, E.*, +, *TGRS Jan. 2015* 190-206
- Shrunken Locally Linear Embedding for Passive Microwave Retrieval of Precipitation. *Ebtehaj, A.M.*, +, *TGRS July 2015* 3720-3736
- Raman spectra**
- A Fast Classification Scheme in Raman Spectroscopy for the Identification of Mineral Mixtures Using a Large Database With Correlated Predictors. *Cochrane, C.J.*, +, *TGRS Aug. 2015* 4259-4274
- Raman spectroscopy**
- A Fast Classification Scheme in Raman Spectroscopy for the Identification of Mineral Mixtures Using a Large Database With Correlated Predictors. *Cochrane, C.J.*, +, *TGRS Aug. 2015* 4259-4274
- Random noise**
- InSAR Image Regularization and DEM Error Correction With Fractal Surface Scattering Model. *Danudirdjo, D.*, +, *TGRS March 2015* 1427-1439
- Random processes**
- A Simplified Formulation for Rough Surface Cross-Polarized Backscattering Under the Second-Order Small-Slope Approximation. *Guerin, C.*, +, *TGRS Nov. 2015* 6308-6314
- Conditional Random Fields for Multitemporal and Multiscale Classification of Optical Satellite Imagery. *Hoberg, T.*, +, *TGRS Feb. 2015* 659-673
- Detail-Preserving Smoothing Classifier Based on Conditional Random Fields for High Spatial Resolution Remote Sensing Imagery. *Zhao, J.*, +, *TGRS May 2015* 2440-2452
- Extended Random Walker-Based Classification of Hyperspectral Images. *Kang, X.*, +, *TGRS Jan. 2015* 144-153
- Robust Rooftop Extraction From Visible Band Images Using Higher Order CRF. *Li, E.*, +, *TGRS Aug. 2015* 4483-4495
- Time Reversal Imaging of Deeply Buried Targets Under Moderately Rough Surfaces Using Approximate Transmitted Fields. *Moghadasi, S.M.*, +, *TGRS July 2015* 3897-3905
- Randomized algorithms**
- A Novel Subpixel Phase Correlation Method Using Singular Value Decomposition and Unified Random Sample Consensus. *Tong, X.*, +, *TGRS Aug. 2015* 4143-4156
- Rational functions**
- Block Adjustment for Satellite Imagery Based on the Strip Constraint. *Zhang, G.*, +, *TGRS Feb. 2015* 933-941
- RPC Estimation via ℓ_1 -Norm-Regularized Least Squares (L1LS). *Long, T.*, +, *TGRS Aug. 2015* 4554-4567
- Systematic Error Compensation Based on a Rational Function Model for Ziyan1-02C. *Jiang, Y.*, +, *TGRS July 2015* 3985-3995
- Ray tracing**
- A New Hybrid Snow Light Scattering Model Based on Geometric Optics Theory and Vector Radiative Transfer Theory. *Xiong, C.*, +, *TGRS Sept. 2015* 4862-4875
- Assessment of Multiple Scattering in the Reflectance of Semiarid Shrublands. *Wang, J.*, +, *TGRS Sept. 2015* 4910-4921
- Real-time systems**
- Real-Time GPS Precise Point Positioning-Based Precipitable Water Vapor Estimation for Rainfall Monitoring and Forecasting. *Shi, J.*, +, *TGRS June 2015* 3452-3459
- Receivers**
- Detection and Quantification of Three-Dimensional Hydraulic Fractures With Horizontal Borehole Resistivity Measurements. *Yang, K.*, +, *TGRS Aug. 2015* 4605-4615
- Receiving antennas**
- A Performance Evaluation of SAR-GMTI Missions for Maritime Applications. *Makhoul, E.*, +, *TGRS May 2015* 2496-2509
- KAIRA: The Kilpisjärvi Atmospheric Imaging Receiver Array—System Overview and First Results. *McKay-Bukowski, D.*, +, *TGRS March 2015* 1440-1451
- Recorders**
- SAR Altimeter Backscattered Waveform Model. *Ray, C.*, +, *TGRS Feb. 2015* 911-919
- Redundancy**
- A Technique for Simultaneous Visualization and Segmentation of Hyperspectral Data. *Meka, A.*, +, *TGRS April 2015* 1707-1717
- Mutual-Information-Based Semi-Supervised Hyperspectral Band Selection With High Discrimination, High Information, and Low Redundancy. *Feng, J.*, +, *TGRS May 2015* 2956-2969
- Reflectivity**
- A Framework for Consistent Estimation of Leaf Area Index, Fraction of Absorbed Photosynthetically Active Radiation, and Surface Albedo from MODIS Time-Series Data. *Xiao, Z.*, +, *TGRS June 2015* 3178-3197
- A New Hybrid Snow Light Scattering Model Based on Geometric Optics Theory and Vector Radiative Transfer Theory. *Xiong, C.*, +, *TGRS Sept. 2015* 4862-4875
- Hemispherical-Directional Reflectance (HDRF) of Windblown Snow-Covered Arctic Tundra at Large Solar Zenith Angles. *Ball, C.P.*, +, *TGRS Oct. 2015* 5377-5387
- Intrinsic Image Decomposition for Feature Extraction of Hyperspectral Images. *Kang, X.*, +, *TGRS April 2015* 2241-2253
- Modeling the Detector Radiometric Gains of the Suomi NPP VIIRS Reflective Solar Bands. *Lei, N.*, +, *TGRS March 2015* 1565-1573
- Reflectometry**
- Tsunami-Wave Parameter Estimation Using GNSS-Based Sea Surface Height Measurement. *Yu, K.*, *TGRS May 2015* 2603-2611
- Vegetation Sensing Using GPS-Interferometric Reflectometry: Theoretical Effects of Canopy Parameters on Signal-to-Noise Ratio Data. *Chew, C.C.*, +, *TGRS May 2015* 2755-2764
- Reflector antennas**
- Comparison of Theoretical Biases in Estimating Polarimetric Properties of Precipitation With Weather Radar Using Parabolic Reflector, or Planar and Cylindrical Arrays. *Lei, L.*, +, *TGRS Aug. 2015* 4313-4327
- Refractive index measurement**
- Sensitivity of Inter calibration Uncertainty of the CLARREO Reflected Solar Spectrometer Features. *Wu, A.*, +, *TGRS Sept. 2015* 4741-4751
- Regression analysis**
- A Bayesian Sparse Generalized Linear Model With an Application to Multi-scale Covariate Discovery for Observed Rainfall Extremes Over the United States. *Das, D.*, +, *TGRS Dec. 2015* 6689-6702
- A Physics-Based Unmixing Method to Estimate Subpixel Temperatures on Mixed Pixels. *Cubero-Castan, M.*, +, *TGRS April 2015* 1894-1906
- Automatic Spatial-Spectral Feature Selection for Hyperspectral Image via Discriminative Sparse Multimodal Learning. *Zhang, Q.*, +, *TGRS Jan. 2015* 261-279
- Complementarity of Discriminative Classifiers and Spectral Unmixing Techniques for the Interpretation of Hyperspectral Images. *Li, J.*, +, *TGRS May 2015* 2899-2912
- Global Land Surface Fractional Vegetation Cover Estimation Using General Regression Neural Networks From MODIS Surface Reflectance. *Jia, K.*, +, *TGRS Sept. 2015* 4787-4796
- Interferometric Phase Image Estimation via Sparse Coding in the Complex Domain. *Hongxing, H.*, +, *TGRS May 2015* 2587-2602
- Iterative Hyperspectral Image Classification Using Spectral-Spatial Relational Features. *Guccione, P.*, +, *TGRS July 2015* 3615-3627
- Missing Data and Regression Models for Spatial Images. *Zhang, J.*, +, *TGRS March 2015* 1574-1582
- Nonparametric Regression for Estimation of Spatiotemporal Mountain Glacier Retreat From Satellite Images. *Kachouie, N.N.*, +, *TGRS March 2015* 1135-1149
- Postlaunch Calibration Update of MetOp-B AVHRR Reflective Solar Channels Using MetOp-A. *Chang, T.*, +, *TGRS May 2015* 2286-2294
- Simultaneous Sparse Graph Embedding for Hyperspectral Image Classification. *Xue, Z.*, +, *TGRS Nov. 2015* 6114-6133
- Spectral-Spatial Classification for Hyperspectral Data Using Rotation Forests With Local Feature Extraction and Markov Random Fields. *Xia, J.*, +, *TGRS May 2015* 2532-2546
- Supervised Spectral-Spatial Hyperspectral Image Classification With Weighted Markov Random Fields. *Sun, L.*, +, *TGRS March 2015* 1490-1503
- Reliability**
- Contributions to Automatic Target Recognition Systems for Underwater Mine Classification. *Fei, T.*, +, *TGRS Jan. 2015* 505-518

Remote sensing

- A Bayesian Method for Upsizing Single Disdrometer Drop Size Counts for Rain Physics Studies and Areal Applications. *Jameson, A.R.*, *TGRS Jan. 2015 335-343*
- A Bayesian Network-Based Method to Alleviate the Ill-Posed Inverse Problem: A Case Study on Leaf Area Index and Canopy Water Content Retrieval. *Quan, X.*, +, *TGRS Dec. 2015 6507-6517*
- A Convex Formulation for Hyperspectral Image Superresolution via Subspace-Based Regularization. *Simoes, M.*, +, *TGRS June 2015 3373-3388*
- A Cumulative Distribution Function Method for Normalizing Variable-Angle Microwave Observations. *Ye, N.*, +, *TGRS July 2015 3906-3916*
- A Fast Classification Scheme in Raman Spectroscopy for the Identification of Mineral Mixtures Using a Large Database With Correlated Predictors. *Cochrane, C.J.*, +, *TGRS Aug. 2015 4259-4274*
- A Global Sensitivity Analysis of Soil Parameters Associated With Backscattering Using the Advanced Integral Equation Model. *Ma, C.*, +, *TGRS Oct. 2015 5613-5623*
- A New Fast Algorithm for Linearly Unmixing Hyperspectral Images. *Guerra, R.*, +, *TGRS Dec. 2015 6752-6765*
- A New Hybrid Snow Light Scattering Model Based on Geometric Optics Theory and Vector Radiative Transfer Theory. *Xiong, C.*, +, *TGRS Sept. 2015 4862-4875*
- A New Ionosphere Tomography Algorithm With Two-Grid Virtual Observations Constraints and Three-Dimensional Velocity Profile. *Yao, Y.*, +, *TGRS May 2015 2373-2383*
- A New Satellite-Based Indicator for Estimation of the Western North Pacific Tropical Cyclone Current Intensity. *Zhuge, X.*, +, *TGRS Oct. 2015 5661-5676*
- A Novel Active Learning Method in Relevance Feedback for Content-Based Remote Sensing Image Retrieval. *Demir, B.*, +, *TGRS May 2015 2323-2334*
- A Novel Graph-Matching-Based Approach for Domain Adaptation in Classification of Remote Sensing Image Pair. *Banerjee, B.*, +, *TGRS July 2015 4045-4062*
- A Novel Negative Abundance-Oriented Hyperspectral Unmixing Algorithm. *Marrero, R.*, +, *TGRS July 2015 3772-3790*
- A Novel Subpixel Phase Correlation Method Using Singular Value Decomposition and Unified Random Sample Consensus. *Tong, X.*, +, *TGRS Aug. 2015 4143-4156*
- A Physical Deterministic Inverse Method for Operational Satellite Remote Sensing: An Application for Sea Surface Temperature Retrievals. *Koner, P.K.*, +, *TGRS Nov. 2015 5872-5888*
- A Physics-Based Unmixing Method to Estimate Subpixel Temperatures on Mixed Pixels. *Cubero-Castan, M.*, +, *TGRS April 2015 1894-1906*
- A Robust Fixed Rank Kriging Method for Improving the Spatial Completeness and Accuracy of Satellite SST Products. *Zhu, Y.*, +, *TGRS Sept. 2015 5021-5035*
- A Semi-Empirical Model for Computing Land Surface Emissivity in the Microwave Region. *Ringerud, S.*, +, *TGRS April 2015 1935-1946*
- A Semiautomated Probabilistic Framework for Tree-Cover Delineation From 1-m NAIP Imagery Using a High-Performance Computing Architecture. *Basu, S.*, +, *TGRS Oct. 2015 5690-5708*
- A Simplified Formulation for Rough Surface Cross-Polarized Backscattering Under the Second-Order Small-Slope Approximation. *Guerin, C.*, +, *TGRS Nov. 2015 6308-6314*
- A Sparse Representation-Based Binary Hypothesis Model for Target Detection in Hyperspectral Images. *Zhang, Y.*, +, *TGRS March 2015 1346-1354*
- A Survey on Spectral-Spatial Classification Techniques Based on Attribute Profiles. *Ghamisi, P.*, +, *TGRS May 2015 2335-2353*
- A Technique for Simultaneous Visualization and Segmentation of Hyperspectral Data. *Meka, A.*, +, *TGRS April 2015 1707-1717*
- A Theory of Recursive Orthogonal Subspace Projection for Hyperspectral Imaging. *Song, M.*, +, *TGRS June 2015 3055-3072*
- A Three-Dimensional Model-Based Approach to the Estimation of the Tree Top Height by Fusing Low-Density LiDAR Data and Very High Resolution Optical Images. *Paris, C.*, +, *TGRS Jan. 2015 467-480*
- A Worldwide Ionospheric Model for Fast Precise Point Positioning. *Rovira-Garcia, A.*, +, *TGRS Aug. 2015 4596-4604*
- Accurate Estimation of Atmospheric Water Vapor Using GNSS Observations and Surface Meteorological Data. *Alshawaf, F.*, +, *TGRS July 2015 3764-3771*
- Active Learning With Gaussian Process Classifier for Hyperspectral Image Classification. *Sun, S.*, +, *TGRS April 2015 1746-1760*
- Adaptive Control of Undetected Radio Frequency Interference With a Spaceborne Microwave Radiometer. *Chen, D.D.*, +, *TGRS Sept. 2015 4972-4984*
- Adaptive Multiobjective Memetic Fuzzy Clustering Algorithm for Remote Sensing Imagery. *Ma, A.*, +, *TGRS Aug. 2015 4202-4217*
- An Adaptive Subpixel Mapping Method Based on MAP Model and Class Determination Strategy for Hyperspectral Remote Sensing Imagery. *Zhong, Y.*, +, *TGRS March 2015 1411-1426*
- An Algorithm Based on the Standard Deviation of Passive Microwave Brightness Temperatures for Monitoring Soil Surface Freeze/Thaw State on the Tibetan Plateau. *Han, M.*, +, *TGRS May 2015 2775-2783*
- An Edge Preserving Multiresolution Fusion: Use of Contourlet Transform and MRF Prior. *Upla, K.P.*, +, *TGRS June 2015 3210-3220*
- Analysis of Interactions Among Two Tropical Depressions and Typhoons Tembin and Bolaven (2012) in Pacific Ocean by Using Satellite Cloud Images. *Liu, J.*, +, *TGRS March 2015 1394-1402*
- Analysis of Oblique Aerial Images for Land Cover and Point Cloud Classification in an Urban Environment. *Rau, J.*, +, *TGRS March 2015 1304-1319*
- Analysis of Reconstructions Obtained Solving l^p -Penalized Minimization Problems. *Lenti, F.*, +, *TGRS Sept. 2015 4876-4886*
- ASCAT Wind Quality Control Near Rain. *Lin, W.*, +, *TGRS Aug. 2015 4165-4177*
- Asymmetric Features of Oceanic Microwave Brightness Temperature in High Surface Wind Speed Condition. *Kazumori, M.*, +, *TGRS Nov. 2015 5901-5914*
- Atmospheric Effects Removal for the Infrared Image Sequences. *Ozsarac, S.*, +, *TGRS Sept. 2015 4899-4909*
- Attitude Oscillation Detection of the ZY-3 Satellite by Using Multispectral Parallax Images. *Tong, X.*, +, *TGRS June 2015 3522-3534*
- Automatic Orthorectification of High-Resolution Optical Satellite Images Using Vector Roads. *Marsevic, A.*, +, *TGRS Nov. 2015 6035-6047*
- Band-Specific Shearlet-Based Hyperspectral Image Noise Reduction. *Karami, A.*, +, *TGRS Sept. 2015 5054-5066*
- Block Adjustment for Satellite Imagery Based on the Strip Constraint. *Zhang, G.*, +, *TGRS Feb. 2015 933-941*
- Calibration and Validation of ZY-3 Optical Sensors. *Chen, Y.*, +, *TGRS Aug. 2015 4616-4626*
- Characterizing Snowpack and the Freeze-Thaw State of Underlying Soil via Assimilation of Multifrequency Passive/Active Microwave Data: A Case Study (NASA CLPX 2003). *Batani, S.M.*, +, *TGRS Jan. 2015 173-189*
- Characterizing the Aerosol and Surface Reflectance Over Australia Using AATSR. *Qin, Y.*, +, *TGRS Nov. 2015 6163-6182*
- Classification of Alaska Spring Thaw Characteristics Using Satellite L-Band Radar Remote Sensing. *Du, J.*, +, *TGRS Jan. 2015 542-556*
- Classification of Hyperspectral Images by Exploiting Spectral-Spatial Information of Superpixel via Multiple Kernels. *Fang, L.*, +, *TGRS Dec. 2015 6663-6674*
- Classification of Remotely Sensed Images Using the GeneSIS Fuzzy Segmentation Algorithm. *Mylonas, S.K.*, +, *TGRS Oct. 2015 5352-5376*
- Collaborative Active and Semisupervised Learning for Hyperspectral Remote Sensing Image Classification. *Wan, L.*, +, *TGRS May 2015 2384-2396*
- Collaborative Representation for Hyperspectral Anomaly Detection. *Li, W.*, +, *TGRS March 2015 1463-1474*
- Compressed-Domain Ship Detection on Spaceborne Optical Image Using Deep Neural Network and Extreme Learning Machine. *Tang, J.*, +, *TGRS March 2015 1174-1185*
- Conditional Random Fields for Multitemporal and Multiscale Classification of Optical Satellite Imagery. *Hoberg, T.*, +, *TGRS Feb. 2015 659-673*
- Contextual and Hierarchical Classification of Satellite Images Based on Cellular Automata. *Espinola, M.*, +, *TGRS Feb. 2015 795-809*
- Correcting Incompatible DN Values and Geometric Errors in Nighttime Lights Time-Series Images. *Zhao, N.*, +, *TGRS April 2015 2039-2049*
- Correction of Stray-Light-Driven Interslot Radiometric Discrepancy (ISR) Present in Radiometric Products of Geostationary Ocean Color Imager (GOCI). *Kim, W.*, +, *TGRS Oct. 2015 5458-5472*
- Correction to "Extracting Man-Made Objects From High Spatial Resolution Remote Sensing Images via Fast Level Set Evolutions" [Feb 15 883-899]. *Li, Z.*, +, *TGRS Oct. 2015 5794*
- Cross-Sensor Continuity of Satellite-Derived Water Clarity in the Gulf of Mexico: Insights Into Temporal Aliasing and Implications for Long-Term Water Clarity Assessment. *Barnes, B.B.*, +, *TGRS April 2015 1761-1772*
- Design and Characterization of a Peltier-Cold Calibration Target for a 110-GHz Radiometer. *Fernandez, S.*, +, *TGRS Jan. 2015 344-351*

- Design of an Optimal Soil Moisture Monitoring Network Using SMOS Retrieved Soil Moisture. *Kornelsen, K.C.*, +, *TGRS July 2015 3950-3959*
- Detail-Preserving Smoothing Classifier Based on Conditional Random Fields for High Spatial Resolution Remote Sensing Imagery. *Zhao, J.*, +, *TGRS May 2015 2440-2452*
- Detection and Quantification of Three-Dimensional Hydraulic Fractures With Horizontal Borehole Resistivity Measurements. *Yang, K.*, +, *TGRS Aug. 2015 4605-4615*
- Development and Operational Analysis of an All-Fiber Coherent Doppler Lidar System for Wind Sensing and Aerosol Profiling. *Abdelazim, S.*, +, *TGRS Dec. 2015 6495-6506*
- Development of Onboard Digital Elevation and Relief Databases for ICESat-2. *Leigh, H.W.*, +, *TGRS April 2015 2011-2020*
- Dielectric Properties of Saline Soils and an Improved Dielectric Model in C-Band. *Wu, Y.*, +, *TGRS Jan. 2015 440-452*
- Domain Adaptation for Remote Sensing Image Classification: A Low-Rank Reconstruction and Instance Weighting Label Propagation Inspired Algorithm. *Shi, Q.*, +, *TGRS Oct. 2015 5677-5689*
- Downscaling Satellite-Based Soil Moisture in Heterogeneous Regions Using High-Resolution Remote Sensing Products and Information Theory: A Synthetic Study. *Chakrabarti, S.*, +, *TGRS Jan. 2015 85-101*
- Effective and Efficient Midlevel Visual Elements-Oriented Land-Use Classification Using VHR Remote Sensing Images. *Cheng, G.*, +, *TGRS Aug. 2015 4238-4249*
- Electromagnetic Inverse Scattering of Axially Moving Cylindrical Targets. *Pastorino, M.*, +, *TGRS March 2015 1452-1462*
- Elitist Chemical Reaction Optimization for Contour-Based Target Recognition in Aerial Images. *Duan, H.*, +, *TGRS May 2015 2845-2859*
- Emissivity and Temperature Assessment Using a Maximum Entropy Estimator: Structure and Performance of the MaxEnTES Algorithm. *Barducci, A.*, +, *TGRS Feb. 2015 738-751*
- Estimating Effective Roughness Parameters of the L-MEB Model for Soil Moisture Retrieval Using Passive Microwave Observations From SMAPVEX12. *Martens, B.*, +, *TGRS July 2015 4091-4103*
- Estimation of Daily Surface Shortwave Net Radiation From the Combined MODIS Data. *Wang, D.*, +, *TGRS Oct. 2015 5519-5529*
- Evaluation of a MISR-Based High-Resolution Aerosol Retrieval Method Using AERONET DRAGON Campaign Data. *Moon, T.*, +, *TGRS Aug. 2015 4328-4339*
- Extension of the Linear Chromodynamics Model for Spectral Change Detection in the Presence of Residual Spatial Misregistration. *Vongsy, K.*, +, *TGRS June 2015 3005-3021*
- Extracting Man-Made Objects From High Spatial Resolution Remote Sensing Images via Fast Level Set Evolutions. *Li, Z.*, +, *TGRS Feb. 2015 883-899*
- Features, Color Spaces, and Boosting: New Insights on Semantic Classification of Remote Sensing Images. *Tokarczyk, P.*, +, *TGRS Jan. 2015 280-295*
- Full-Scale Assessment of Pansharpening Through Polynomial Fitting of Multiscale Measurements. *Carla, R.*, +, *TGRS Dec. 2015 6344-6355*
- Functions of Multiple Instances for Learning Target Signatures. *Jiao, C.*, +, *TGRS Aug. 2015 4670-4686*
- Futuristic Greedy Approach to Sparse Unmixing of Hyperspectral Data. *Akhtar, N.*, +, *TGRS April 2015 2157-2174*
- Gaussian Processes for Estimating Wavelength Position of the Ferric Iron Crystal Field Feature at ~900 nm From Hyperspectral Imagery Acquired in the Short-Wave Infrared (1002–1355 nm). *Murphy, R.J.*, +, *TGRS April 2015 1907-1920*
- Global Land Surface Fractional Vegetation Cover Estimation Using General Regression Neural Networks From MODIS Surface Reflectance. *Jia, K.*, +, *TGRS Sept. 2015 4787-4796*
- Hemispherical-Directional Reflectance (HDRF) of Windblown Snow-Covered Arctic Tundra at Large Solar Zenith Angles. *Ball, C.P.*, +, *TGRS Oct. 2015 5377-5387*
- Hierarchical Unsupervised Change Detection in Multitemporal Hyperspectral Images. *Liu, S.*, +, *TGRS Jan. 2015 244-260*
- High-Resolution Maps of Bathymetry and Benthic Habitats in Shallow-Water Environments Using Multispectral Remote Sensing Imagery. *Eugenio, F.*, +, *TGRS July 2015 3539-3549*
- Hyperspectral Band Selection Based on Rough Set. *Patra, S.*, +, *TGRS Oct. 2015 5495-5503*
- Impact of Diurnal Variation in Vegetation Water Content on Radar Backscatter From Maize During Water Stress. *van Emmerik, T.*, +, *TGRS July 2015 3855-3869*
- Impact of Improved Calibration of a NEO HySpex VNIR-1600 Sensor on Remote Sensing of Water Depth. *Lenhard, K.*, +, *TGRS Nov. 2015 6085-6098*
- Improving Soil Moisture Profile Prediction With the Particle Filter-Markov Chain Monte Carlo Method. *Yan, H.*, +, *TGRS Nov. 2015 6134-6147*
- Improving the Spatial Resolution of Landsat TM/ETM+ Through Fusion With SPOT5 Images via Learning-Based Super-Resolution. *Song, H.*, +, *TGRS March 2015 1195-1204*
- Independent Laboratory Characterization of NEO HySpex Imaging Spectrometers VNIR-1600 and SWIR-320m-e. *Lenhard, K.*, +, *TGRS April 2015 1828-1841*
- Intercalibration of Advanced Microwave Scanning Radiometer-2 (AMSR2) Brightness Temperature. *Okuyama, A.*, +, *TGRS Aug. 2015 4568-4577*
- Isorange Pairwise Orthogonal Transform. *Blanes, I.*, +, *TGRS June 2015 3361-3372*
- Large-Scale High-Resolution Modeling of Microwave Radiance of a Deep Maritime Alpine Snowpack. *Li, D.*, +, *TGRS May 2015 2308-2322*
- Learning High-level Features for Satellite Image Classification With Limited Labeled Samples. *Yang, W.*, +, *TGRS Aug. 2015 4472-4482*
- Learning Interpolation via Regional Map for Pan-Sharpener. *Shi, C.*, +, *TGRS June 2015 3417-3431*
- Linear Spectral Mixture Analysis via Multiple-Kernel Learning for Hyperspectral Image Classification. *Liu, K.*, +, *TGRS April 2015 2254-2269*
- Low-Rank Subspace Representation for Estimating the Number of Signal Subspaces in Hyperspectral Imagery. *Sumarsono, A.*, +, *TGRS Nov. 2015 6286-6292*
- Mapping Aboveground Biomass in Northern Japanese Forests Using the ALOS PRISM Digital Surface Model. *Motohka, T.*, +, *TGRS April 2015 1683-1691*
- Marker-Controlled Watershed-Based Segmentation of Multiresolution Remote Sensing Images. *Gaetano, R.*, +, *TGRS June 2015 2987-3004*
- Measurement and Correction of Atmospheric Effects at Different Altitudes for Remote Sensing of Sun-Induced Fluorescence in Oxygen Absorption Bands. *Daumard, F.*, +, *TGRS Sept. 2015 5180-5196*
- Measuring the Directional Variations of Land Surface Reflectance From MODIS. *Breon, F.*, +, *TGRS Aug. 2015 4638-4649*
- Measuring the Effectiveness of Various Features for Thematic Information Extraction From Very High Resolution Remote Sensing Imagery. *Chen, X.*, +, *TGRS Sept. 2015 4837-4851*
- Measuring the Variance of the Vertical Orbital Velocity Component by an Acoustic Wave Gauge With a Single Transceiver Antenna. *Titchenko, Y.A.*, +, *TGRS Aug. 2015 4340-4347*
- Minimizing Reflectance Anisotropy Effects in Airborne Spectroscopy Data Using Ross-Li Model Inversion With Continuous Field Land Cover Stratification. *Weyermann, J.*, +, *TGRS Nov. 2015 5814-5823*
- Minimum Volume Simplex Analysis: A Fast Algorithm for Linear Hyperspectral Unmixing. *Li, J.*, +, *TGRS Sept. 2015 5067-5082*
- Model-Based Fusion of Multi- and Hyperspectral Images Using PCA and Wavelets. *Palsson, F.*, +, *TGRS May 2015 2652-2663*
- Modeling L-Band Brightness Temperature at Dome C in Antarctica and Comparison With SMOS Observations. *Leduc-Leballeur, M.*, +, *TGRS July 2015 4022-4032*
- Modeling the Detector Radiometric Gains of the Suomi NPP VIIRS Reflective Solar Bands. *Lei, N.*, +, *TGRS March 2015 1565-1573*
- MTF-Adjusted Pansharpening Approach Based on Coupled Multiresolution Decompositions. *Kallel, A.*, *TGRS June 2015 3124-3145*
- MTSAT-1R Visible Imager Point Spread Correction Function, Part I: The Need for, Validation of, and Calibration With. *Doelling, D.R.*, +, *TGRS March 2015 1513-1526*
- MTSAT-1R Visible Imager Point Spread Function Correction, Part II: Theory. *Khlopenkov, K.V.*, +, *TGRS March 2015 1504-1512*
- Multi-GNSS Meteorology: Real-Time Retrieving of Atmospheric Water Vapor From BeiDou, Galileo, GLONASS, and GPS Observations. *Li, X.*, +, *TGRS Dec. 2015 6385-6393*
- Multiclass Coarse Analysis for UAV Imagery. *Moranduzzo, T.*, +, *TGRS Dec. 2015 6394-6406*
- Multiple Feature Learning for Hyperspectral Image Classification. *Li, J.*, +, *TGRS March 2015 1592-1606*
- Nonparametric Regression for Estimation of Spatiotemporal Mountain Glacier Retreat From Satellite Images. *Kachouie, N.N.*, +, *TGRS March 2015 1135-1149*
- Novel Two-Dimensional Singular Spectrum Analysis for Effective Feature Extraction and Data Classification in Hyperspectral Imaging. *Zabalza, J.*, +, *TGRS Aug. 2015 4418-4433*

- Object Detection in Optical Remote Sensing Images Based on Weakly Supervised Learning and High-Level Feature Learning. *Han, J.*, +, *TGRS June 2015 3325-3337*
- Ocean Turbulent Dynamics at Superresolution From Optimal Multiresolution Analysis and Multiplicative Cascade. *Sudre, J.*, +, *TGRS Nov. 2015 6274-6285*
- Performance Evaluation of a GLRT Moving Target Detector for TerraSAR-X Along-Track Interferometric Data. *Budillon, A.*, +, *TGRS June 2015 3350-3360*
- Postlaunch Calibration Update of MetOp-B AVHRR Reflective Solar Channels Using MetOp-A. *Chang, T.*, +, *TGRS May 2015 2286-2294*
- Prelaunch Radiometric Characterization and Calibration of the S-NPP VIIRS Sensor. *Oudrari, H.*, +, *TGRS April 2015 2195-2210*
- Progressive Band Processing of Constrained Energy Minimization for Sub-pixel Detection. *Chang, C.*, +, *TGRS March 2015 1626-1637*
- Pyramid of Spatial Relations for Scene-Level Land Use Classification. *Chen, S.*, +, *TGRS April 2015 1947-1957*
- Random Subspace Ensembles for Hyperspectral Image Classification With Extended Morphological Attribute Profiles. *Xia, J.*, +, *TGRS Sept. 2015 4768-4786*
- Real-Time Atmospheric Correction of AVIRIS-NG Imagery. *Bue, B.D.*, +, *TGRS Dec. 2015 6419-6428*
- Regular Shape Similarity Index: A Novel Index for Accurate Extraction of Regular Objects From Remote Sensing Images. *Sun, Z.*, +, *TGRS July 2015 3737-3748*
- Reliable Technology of Centimeter GPS/GLONASS Surveying in Forest Environments. *Bakula, M.*, +, *TGRS Feb. 2015 1029-1038*
- Remote Sensing Image Matching Based on Adaptive Binning SIFT Descriptor. *Sedaghat, A.*, +, *TGRS Oct. 2015 5283-5293*
- Retrieval of Significant Wave Height and Mean Sea Surface Level Using the GNSS-R Interference Pattern Technique: Results From a Three-Month Field Campaign. *Alonso-Arroyo, A.*, +, *TGRS June 2015 3198-3209*
- Retrieving Layer-Averaged Tropospheric Humidity From Advanced Technology Microwave Sounder Water Vapor Channels. *Moradi, I.*, +, *TGRS Dec. 2015 6675-6688*
- Robust Feature Matching for Remote Sensing Image Registration via Locally Linear Transforming. *Ma, J.*, +, *TGRS Dec. 2015 6469-6481*
- Robust Hyperspectral Image Target Detection Using an Inequality Constraint. *Yang, S.*, +, *TGRS June 2015 3389-3404*
- Robust Rooftop Extraction From Visible Band Images Using Higher Order CRF. *Li, E.*, +, *TGRS Aug. 2015 4483-4495*
- Rotational Pixel Swapping Method for Detection of Circular Features in Binary Images. *Yamamoto, S.*, +, *TGRS Feb. 2015 710-723*
- Saliency-Guided Unsupervised Feature Learning for Scene Classification. *Zhang, F.*, +, *TGRS April 2015 2175-2184*
- Satellite Microwave Retrieval of Total Precipitable Water Vapor and Surface Air Temperature Over Land From AMSR2. *Du, J.*, +, *TGRS May 2015 2520-2531*
- Scene Classification Based on the Multifeature Fusion Probabilistic Topic Model for High Spatial Resolution Remote Sensing Imagery. *Zhong, Y.*, +, *TGRS Nov. 2015 6207-6222*
- Semiautomated Extraction of Street Light Poles From Mobile LiDAR Point-Clouds. *Yu, Y.*, +, *TGRS March 2015 1374-1386*
- Semisupervised Transfer Component Analysis for Domain Adaptation in Remote Sensing Image Classification. *Matasci, G.*, +, *TGRS July 2015 3550-3564*
- Shrunken Locally Linear Embedding for Passive Microwave Retrieval of Precipitation. *Ebtehaj, A.M.*, +, *TGRS July 2015 3720-3736*
- Simulation of the SMAP Data Stream From SMAPEX Field Campaigns in Australia. *Wu, X.*, +, *TGRS April 2015 1921-1934*
- Snow Depth Estimation Based on Multipath Phase Combination of GPS Triple-Frequency Signals. *Yu, K.*, +, *TGRS Sept. 2015 5100-5109*
- Soil Moisture Retrieval Using Neural Networks: Application to SMOS. *Rodriguez-Fernandez, N.J.*, +, *TGRS Nov. 2015 5991-6007*
- Spatiotemporal Detection and Analysis of Urban Villages in Mega City Regions of China Using High-Resolution Remotely Sensed Imagery. *Huang, X.*, +, *TGRS July 2015 3639-3657*
- Spectral Image Unmixing From Optimal Coded-Aperture Compressive Measurements. *Ramirez, A.*, +, *TGRS Jan. 2015 405-415*
- Stable Mean-Shift Algorithm and Its Application to the Segmentation of Arbitrarily Large Remote Sensing Images. *Michel, J.*, +, *TGRS Feb. 2015 952-964*
- Substance Dependence Constrained Sparse NMF for Hyperspectral Unmixing. *Yuan, Y.*, +, *TGRS June 2015 2975-2986*
- Super-Resolution of Hyperspectral Images: Use of Optimum Wavelet Filter Coefficients and Sparsity Regularization. *Patel, R.C.*, +, *TGRS April 2015 1728-1736*
- Superpixel-Based Graphical Model for Remote Sensing Image Mapping. *Zhang, G.*, +, *TGRS Nov. 2015 5861-5871*
- Synthesis of Fractal Surfaces for Remote-Sensing Applications. *Riccio, D.*, +, *TGRS July 2015 3803-3814*
- The GO4 Model in Near-Nadir Microwave Scattering From the Sea Surface. *Boisot, O.*, +, *TGRS Nov. 2015 5889-5900*
- The Radiometric Stability and Scaling of Collection 6 Terra- and Aqua-MODIS VIS, NIR, and SWIR Spectral Bands. *Doelling, D.R.*, +, *TGRS Aug. 2015 4520-4535*
- Thin Ice Detection in the Barents and Kara Seas With AMSR-E and SSMIS Radiometer Data. *Makynen, M.*, +, *TGRS Sept. 2015 5036-5053*
- Time-Sampling Errors of Earth Radiation From Satellites: Theory for Outgoing Longwave Radiation. *Smith, G.L.*, +, *TGRS March 2015 1656-1665*
- Toward Evaluating Multiscale Segmentations of High Spatial Resolution Remote Sensing Images. *Zhang, X.*, +, *TGRS July 2015 3694-3706*
- Uncertainty Evaluation of an In-Flight Absolute Radiometric Calibration Using a Statistical Monte Carlo Method. *Chen, W.*, +, *TGRS May 2015 2925-2934*
- Update of VIIRS On-Orbit Spatial Parameters Characterized With the Moon. *Wang, Z.*, +, *TGRS Oct. 2015 5486-5494*
- Validation of Significant Wave Height From Improved Satellite Altimetry in the German Bight. *Passaro, M.*, +, *TGRS April 2015 2146-2156*
- Vegetation Sensing Using GPS-Interferometric Reflectometry: Theoretical Effects of Canopy Parameters on Signal-to-Noise Ratio Data. *Chew, C.C.*, +, *TGRS May 2015 2755-2764*
- Waveform Retracking for Improving Level Estimations From TOPEX/Poseidon, Jason-1, and Jason-2 Altimetry Observations Over African Lakes. *Uebbing, B.*, +, *TGRS April 2015 2211-2224*
- Remote sensing by laser beam**
- AFRODiTE: A Fluorescence Lidar Simulator for Underwater Object Detection Applications. *Zotta, L.*, +, *TGRS June 2015 3022-3041*
- Arctic Sea Ice Freeboard Retrieval With Waveform Characteristics for NASA's Airborne Topographic Mapper (ATM) and Land, Vegetation, and Ice Sensor (LVIS). *Yi, D.*, +, *TGRS March 2015 1403-1410*
- Atmospheric Boundary Layer Height Estimation Using a Kalman Filter and a Frequency-Modulated Continuous-Wave Radar. *Lange, D.*, +, *TGRS June 2015 3338-3349*
- CLARREO Reflected Solar Spectrometer: Restrictions for Instrument Sensitivity to Polarization. *Lukashin, C.*, +, *TGRS Dec. 2015 6703-6709*
- Extraction of Vehicle Groups in Airborne Lidar Point Clouds With Two-Level Point Processes. *Borcs, A.*, +, *TGRS March 2015 1475-1489*
- Intensity Correction of Terrestrial Laser Scanning Data by Estimating Laser Transmission Function. *Fang, W.*, +, *TGRS Feb. 2015 942-951*
- Lidars With Narrow FOV for Daylight Measurements. *Eixmann, R.*, +, *TGRS Aug. 2015 4548-4553*
- Linear Models for Airborne-Laser-Scanning-Based Operational Forest Inventory With Small Field Sample Size and Highly Correlated LiDAR Data. *Junttila, V.*, +, *TGRS Oct. 2015 5600-5612*
- Nonparametric Image Registration of Airborne LiDAR, Hyperspectral and Photographic Imagery of Wooded Landscapes. *Lee, J.*, +, *TGRS Nov. 2015 6073-6084*
- Parameterization of Centimeter-Scale Sea Ice Surface Roughness Using Terrestrial LiDAR. *Landy, J.C.*, +, *TGRS March 2015 1271-1286*
- Sampling of Time-Resolved Full-Waveform LIDAR Signals at Sub-Nyquist Rates. *Castorena, J.*, +, *TGRS July 2015 3791-3802*
- Semiautomated Extraction of Street Light Poles From Mobile LiDAR Point-Clouds. *Yu, Y.*, +, *TGRS March 2015 1374-1386*
- The Effect of Boreal Forest Canopy in Satellite Snow Mapping—A Multi-sensor Analysis. *Cohen, J.*, +, *TGRS Dec. 2015 6593-6607*
- Remote sensing by radar**
- A Combined Active-Passive Soil Moisture Estimation Algorithm With Adaptive Regularization in Support of SMAP. *Akbar, R.*, +, *TGRS June 2015 3312-3324*
- A Dense Medium Microwave Backscattering Model for the Remote Sensing of Oil Palm. *Teng, K.C.*, +, *TGRS June 2015 3250-3259*
- A Fast Radial Scanned Near-Field 3-D SAR Imaging System and the Reconstruction Method. *Li, Z.*, +, *TGRS March 2015 1355-1363*
- A High-Order Imaging Algorithm for High-Resolution Spaceborne SAR Based on a Modified Equivalent Squint Range Model. *Wang, P.*, +, *TGRS March 2015 1225-1235*

- A Method to Increase the Scanning Rate of Phased-Array Weather Radar. *Melnikov, V.M.*, +, *TGRS Oct. 2015 5634-5643*
- A Methodology to Determine Radio-Frequency Interference in AMSR2 Observations. *de Nijs, A.H.A.*, +, *TGRS Sept. 2015 5148-5159*
- A Modified Water-Cloud Model With Leaf Angle Parameters for Microwave Backscattering From Agricultural Fields. *Kweon, S.*, +, *TGRS May 2015 2802-2809*
- A Multidimensional Extension of the Concept of Coherence in Polarimetric SAR Interferometry. *Alvarez-Perez, J.L.*, *TGRS March 2015 1257-1270*
- A New Approach to Ocean Wave Parameter Estimates From C-Band ScanSAR Images. *Romeiser, R.*, +, *TGRS March 2015 1320-1345*
- A New Detection Algorithm for Coherent Scatterers in SAR Data. *Sanjuan-Ferrer, M.J.*, +, *TGRS Nov. 2015 6293-6307*
- A New Framework for SAR Multitemporal Data RGB Representation: Rationale and Products. *Amitrano, D.*, +, *TGRS Jan. 2015 117-133*
- A Performance Evaluation of SAR-GMTI Missions for Maritime Applications. *Makhoul, E.*, +, *TGRS May 2015 2496-2509*
- A Radon-Transform-Based Image Noise Filter—With Applications to Multibeam Bathymetry. *Landmark, K.*, +, *TGRS Nov. 2015 6252-6273*
- A Self-Adaptive Wavelet-Based Algorithm for Wave Measurement Using Nautical Radar. *An, J.*, +, *TGRS Jan. 2015 567-577*
- A Simplified Formulation for Rough Surface Cross-Polarized Backscattering Under the Second-Order Small-Slope Approximation. *Guerin, C.*, +, *TGRS Nov. 2015 6308-6314*
- A System for the Automatic Classification of Ice Sheet Subsurface Targets in Radar Sounder Data. *Ilisei, A.*, +, *TGRS June 2015 3260-3277*
- Adaptive Total Variation Regularization Based SAR Image Despeckling and Despeckling Evaluation Index. *Zhao, Y.*, +, *TGRS May 2015 2765-2774*
- Advanced Remote Sensing of Internal Waves by Spaceborne Along-Track InSAR—A Demonstration With TerraSAR-X. *Romeiser, R.*, +, *TGRS Dec. 2015 6735-6751*
- Airborne SAR Moving Target Signatures and Imagery Based on LVD. *Yang, L.*, +, *TGRS Nov. 2015 5958-5971*
- An Imaging Compensation Algorithm for Correcting the Impact of Tropospheric Delay on Spaceborne High-Resolution SAR. *Yu, Z.*, +, *TGRS Sept. 2015 4825-4836*
- An Improvement of Ionospheric Phase Correction by Multiple-Aperture Interferometry. *Jung, H.*, +, *TGRS Sept. 2015 4952-4960*
- An Ocean Wind Doppler Model Based on the Generalized Curvature Ocean Surface Scattering Model. *Said, F.*, +, *TGRS Dec. 2015 6632-6638*
- Analysis of X-Band SAR Sea-Clutter Distributions at Different Grazing Angles. *Fiche, A.*, +, *TGRS Aug. 2015 4650-4660*
- Atmospheric Boundary Layer Height Estimation Using a Kalman Filter and a Frequency-Modulated Continuous-Wave Radar. *Lange, D.*, +, *TGRS June 2015 3338-3349*
- Automated Underwater Object Recognition by Means of Fluorescence LIDAR. *Matteoli, S.*, +, *TGRS Jan. 2015 375-393*
- Automatic Optical-to-SAR Image Registration by Iterative Line Extraction and Voronoi Integrated Spectral Point Matching. *Sui, H.*, +, *TGRS Nov. 2015 6058-6072*
- Averaged Stokes Vector Based Polarimetric SAR Data Interpretation. *Shang, F.*, +, *TGRS Aug. 2015 4536-4547*
- CAESAR: An Approach Based on Covariance Matrix Decomposition to Improve Multibaseline–Multitemporal Interferometric SAR Processing. *Fornaro, G.*, +, *TGRS April 2015 2050-2065*
- Change-Detection Map Learning Using Matching Pursuit. *Li, Y.*, +, *TGRS Aug. 2015 4712-4723*
- Characterization and Correction of Multilook Effects on Eigendecomposition Parameters in PolSAR Images. *Yahia, M.*, +, *TGRS Sept. 2015 5237-5246*
- Characterization of Facade Regularities in High-Resolution SAR Images. *Auer, S.*, +, *TGRS May 2015 2727-2737*
- Combination of H-Alpha Decomposition and Migration for Enhancing Subsurface Target Classification of GPR. *Feng, X.*, +, *TGRS Sept. 2015 4852-4861*
- Comparing Near-Coincident C- and X-Band SAR Acquisitions of Marine Oil Spills. *Skrunes, S.*, +, *TGRS April 2015 1958-1975*
- Comparison of Incoherent and Coherent Wave Field Measurements Using Dual-Polarized Pulse-Doppler X-Band Radar. *Hackett, E.E.*, +, *TGRS Nov. 2015 5926-5942*
- Coprieme Synthetic Aperture Radar (CopSAR): A New Acquisition Mode for Maritime Surveillance. *Di Martino, G.*, +, *TGRS June 2015 3110-3123*
- Correcting Distortion of Polarimetric SAR Data Induced by Ionospheric Scintillation. *Kim, J.S.*, +, *TGRS Dec. 2015 6319-6335*
- Cubic Phase Distortion and Irregular Degradation on SAR Imaging Due to the Ionosphere. *Wang, C.*, +, *TGRS June 2015 3442-3451*
- Deformation Parameter Estimation in Low Coherence Areas Using a Multisatellite InSAR Approach. *Morishita, Y.*, +, *TGRS Aug. 2015 4275-4283*
- Direction-of-Arrival Estimation for Radar Ice Sounding Surface Clutter Suppression. *Nielsen, U.*, +, *TGRS Sept. 2015 5170-5179*
- Doppler-Related Distortions in TOPS SAR Images. *Rodriguez-Cassola, M.*, +, *TGRS Jan. 2015 25-35*
- Dynamical Approach for Real-Time Monitoring of Agricultural Crops. *Vicente-Guijalba, F.*, +, *TGRS June 2015 3278-3293*
- Effect of the Polarization Leakage on the SMOS Image Reconstruction Algorithm: Validation Using Ocean Model and *In Situ* Soil Moisture Data. *Khazaal, A.*, +, *TGRS Sept. 2015 4961-4971*
- Efficient Deconvolution of Ground-Penetrating Radar Data. *Schmelzbach, C.*, +, *TGRS Sept. 2015 5209-5217*
- Emulating Sentinel-1 Doppler Radial Ice Drift Measurements Using Envisat ASAR Data. *Kramer, T.*, +, *TGRS Dec. 2015 6407-6418*
- Estimating Forest Biomass From TerraSAR-X Stripmap Radargrammetry. *Solberg, S.*, +, *TGRS Jan. 2015 154-161*
- Estimation of Forest Biomass From Two-Level Model Inversion of Single-Pass InSAR Data. *Soja, M.J.*, +, *TGRS Sept. 2015 5083-5099*
- Estimation of Light Rainfall Using Ku-Band Dual-Polarization Radar. *Chen, H.*, +, *TGRS Sept. 2015 5197-5208*
- Evaluation of Precipitation Retrievals From Orbital Data Products of TRMM Over a Subtropical Basin in India. *Indu, J.*, +, *TGRS Dec. 2015 6429-6442*
- Experimental Results and Algorithm Analysis of DEM Generation Using Bistatic SAR Interferometry With Stationary Receiver. *Zeng, T.*, +, *TGRS Nov. 2015 5835-5852*
- Fast Statistically Homogeneous Pixel Selection for Covariance Matrix Estimation for Multitemporal InSAR. *Jiang, M.*, +, *TGRS March 2015 1213-1224*
- Fine-Resolution Radar Altimeter Measurements on Land and Sea Ice. *Patel, A.*, +, *TGRS May 2015 2547-2564*
- Focused SAR Image Formation of Moving Targets Based on Doppler Parameter Estimation. *Noviello, C.*, +, *TGRS June 2015 3460-3470*
- Focused Synthetic Aperture Radar Processing of Ice-Sounding Data Collected Over the East Antarctic Ice Sheet via the Modified Range Migration Algorithm Using Curvelets. *Lang, S.*, +, *TGRS Aug. 2015 4496-4509*
- Forest Height Estimation by Means of Pol-InSAR Data Inversion: The Role of the Vertical Wavenumber. *Kugler, F.*, +, *TGRS Oct. 2015 5294-5311*
- Future Ocean Scatterometry: On the Use of Cross-Polar Scattering to Observe Very High Winds. *Fois, F.*, +, *TGRS Sept. 2015 5009-5020*
- Geodetic Network Design for InSAR. *Mahapatra, P.S.*, +, *TGRS July 2015 3669-3680*
- Global Land Surface Backscatter at Ku-Band Using Merged Jason1, Envisat, and Jason2 Data Sets. *Yang, L.*, +, *TGRS Feb. 2015 784-794*
- GPR Prospecting Through an Inverse-Scattering Frequency-Hopping Multifocusing Approach. *Salucci, M.*, +, *TGRS Dec. 2015 6573-6592*
- Hierarchical Conditional Random Fields Model for Semisupervised SAR Image Segmentation. *Zhang, P.*, +, *TGRS Sept. 2015 4933-4951*
- High-Resolution InSAR Building Layovers Detection and Exploitation. *Rossi, C.*, +, *TGRS Dec. 2015 6457-6468*
- HY-2A Radar Altimeter Ultrastable Oscillator Drift Estimation Using Reconstructive Transponder With Its Validation By Multimission Cross Calibration. *Wan, J.*, +, *TGRS Sept. 2015 5229-5236*
- Identification and Suppression of Nonmeteorological Echoes Using Spectral Polarimetric Processing. *Alku, L.*, +, *TGRS July 2015 3628-3638*
- Impact of Receiver Saturation on Surface Doppler Velocity Measurements From the EarthCARE Cloud Profiling Radar. *Battaglia, A.*, +, *TGRS March 2015 1205-1212*
- Implementation of the OFDM Chirp Waveform on MIMO SAR Systems. *Wang, J.*, +, *TGRS Sept. 2015 5218-5228*
- Improved EMCF-SBAS Processing Chain Based on Advanced Techniques for the Noise-Filtering and Selection of Small Baseline Multi-Look DInSAR Interferograms. *Pepe, A.*, +, *TGRS Aug. 2015 4394-4417*
- InSAR Assessment of Surface Deformations in Urban Coastal Terrains Associated With Groundwater Dynamics. *Normand, J.C.L.*, +, *TGRS Dec. 2015 6356-6371*
- InSAR Image Regularization and DEM Error Correction With Fractal Surface Scattering Model. *Danuirdjo, D.*, +, *TGRS March 2015 1427-1439*
- Intercomparison of Precipitation Estimates From WSR-88D Radar and TRMM Measurement Over Continental United States. *Chen, S.*, +, *TGRS Aug. 2015 4444-4456*

- Invariant Rules for Multipolarization SAR Change Detection. *Carotenuto, V.*, +, *TGRS June 2015 3294-3311*
- ISAR Imaging of Nonuniformly Rotating Target Based on a Fast Parameter Estimation Algorithm of Cubic Phase Signal. *Zheng, J.*, +, *TGRS Sept. 2015 4727-4740*
- Knowledge-Based Multitarget Ship Tracking for HF Surface Wave Radar Systems. *Vivone, G.*, +, *TGRS July 2015 3931-3949*
- Mapping the Precipitation Type Distribution Over the Contiguous United States Using NOAA/NSSL National Multi-Sensor Mosaic QPE. *Chen, S.*, +, *TGRS Aug. 2015 4434-4443*
- Microwave Backscatter From Arctic Lake Ice and Polarimetric Implications. *Atwood, D.K.*, +, *TGRS Nov. 2015 5972-5982*
- MIMO SAR OFDM Chirp Waveform Diversity Design With Random Matrix Modulation. *Wang, W.*, *TGRS March 2015 1615-1625*
- Model-Based Quantitative Cross-Borehole GPR Imaging via Virtual Experiments. *Di Donato, L.*, +, *TGRS Aug. 2015 4178-4185*
- Modeling Radar Attenuation by a Low Melting Layer With Optimized Model Parameters at C-Band. *von Lerber, A.*, +, *TGRS Feb. 2015 724-737*
- Moving Target Tracking in Single- and Multichannel SAR. *Henke, D.*, +, *TGRS June 2015 3146-3159*
- Multianglular BSAR Imaging Based on BeiDou-2 Navigation Satellite System: Experiments and Preliminary Results. *Zeng, T.*, +, *TGRS Oct. 2015 5760-5773*
- Multitemporal Fluctuations in L-Band Backscatter From a Japanese Forest. *Watanabe, M.*, +, *TGRS Nov. 2015 5799-5813*
- NL-SAR: A Unified Nonlocal Framework for Resolution-Preserving (Pol)(In)SAR Denoising. *Deledalle, C.*, +, *TGRS April 2015 2021-2038*
- Non-Invasive Forest Litter Characterization Using Full-Wave Inversion of Microwave Radar Data. *Andre, F.*, +, *TGRS Feb. 2015 828-840*
- Numerical and Experimental Evaluation of Terrestrial LiDAR for Parameterizing Centimeter-Scale Sea Ice Surface Roughness. *Landy, J.C.*, +, *TGRS Sept. 2015 4887-4898*
- Optimizing Radiation Patterns of a Cylindrical Polarimetric Phased-Array Radar for Multimissions. *Karimkashi, S.*, +, *TGRS May 2015 2810-2818*
- P-Band Radar Retrieval of Subsurface Soil Moisture Profile as a Second-Order Polynomial: First AirMOSS Results. *Tabatabaenejad, A.*, +, *TGRS Feb. 2015 645-658*
- Paddy-Rice Monitoring Using TanDEM-X. *Rossi, C.*, +, *TGRS Feb. 2015 900-910*
- Performance Evaluation of a GLRT Moving Target Detector for TerraSAR-X Along-Track Interferometric Data. *Budillon, A.*, +, *TGRS June 2015 3350-3360*
- Phase Offset Calculation for Airborne InSAR DEM Generation Without Corner Reflectors. *Perna, S.*, +, *TGRS May 2015 2713-2726*
- Polarimetric Incoherent Target Decomposition by Means of Independent Component Analysis. *Besic, N.*, +, *TGRS March 2015 1236-1247*
- Polarimetric SAR Speckle Filtering and the Extended Sigma Filter. *Lee, J.*, +, *TGRS March 2015 1150-1160*
- Precise Three-Dimensional Stereo Localization of Corner Reflectors and Persistent Scatterers With TerraSAR-X. *Gisinger, C.*, +, *TGRS April 2015 1782-1802*
- Processing of Monostatic SAR Data With General Configurations. *Tang, S.*, +, *TGRS Dec. 2015 6529-6546*
- Quantization Effects in TanDEM-X Data. *Martone, M.*, +, *TGRS Feb. 2015 583-597*
- Reduced Image Aliasing With Microwave Radiometers and Weather Radar Through Windowed Spatial Averaging. *McLinden, M.L.*, +, *TGRS Dec. 2015 6639-6649*
- Representation and Spatially Adaptive Segmentation for PolSAR Images Based on Wedgelet Analysis. *Liu, B.*, +, *TGRS Sept. 2015 4797-4809*
- Robust Reconstruction of Building Facades for Large Areas Using Spaceborne TomoSAR Point Clouds. *Shahzad, M.*, +, *TGRS Feb. 2015 752-769*
- Sand Ripple Characterization Using an Extended Synthetic Aperture Sonar Model and Parallel Sampling Method. *Chen, C.*, +, *TGRS Oct. 2015 5547-5559*
- Scattering Centers Detection and Tracking in Refocused Spaceborne SAR Images for Infrastructure Monitoring. *Anghel, A.*, +, *TGRS Aug. 2015 4379-4393*
- Semiparametric Statistical Stripmap Synthetic Aperture Autofocusing. *Marston, T.M.*, +, *TGRS April 2015 2086-2095*
- Sensitivity of Pol-InSAR Measurements to Vegetation Parameters. *Oveisgharan, S.*, +, *TGRS Dec. 2015 6561-6572*
- Sentinel-1A: Analysis of FDBAQ Performance on Real Data. *Guccione, P.*, +, *TGRS Dec. 2015 6804-6812*
- Signature Morphology Effects of Squint Angle for Arbitrarily Moving Surface Targets in Spotlight Synthetic Aperture Radar. *Garren, D.A.*, *TGRS Nov. 2015 6241-6251*
- Simulation of ISAR Imaging for a Space Target and Reconstruction Under Sparse Sampling via Compressed Sensing. *Wang, F.*, +, *TGRS June 2015 3432-3441*
- Simulation of the SuperSAR Multi-Azimuth Synthetic Aperture Radar Imaging System for Precise Measurement of Three-Dimensional Earth Surface Displacement. *Jung, H.*, +, *TGRS Nov. 2015 6196-6206*
- Soil Moisture Estimation Under Tropical Forests Using UHF Radar Polarimetry. *Truong-Loi, M.*, +, *TGRS April 2015 1718-1727*
- Soil Moisture Retrieval Using L-Band Radar Observations. *Narvekar, P.S.*, +, *TGRS June 2015 3492-3506*
- Sparse Regularization of Interferometric Phase and Amplitude for InSAR Image Formation Based on Bayesian Representation. *Xu, G.*, +, *TGRS April 2015 2123-2136*
- Statistical Tests for a Ship Detector Based on the Polarimetric Notch Filter. *Marino, A.*, +, *TGRS Aug. 2015 4578-4595*
- Synergistic Use of Satellite Observations and Numerical Weather Model to Study Atmospheric Occluded Fronts. *Li, X.*, +, *TGRS Sept. 2015 5269-5279*
- Temporal Decorrelation in L-, C-, and X-band Satellite Radar Interferometry for Pasture on Drained Peat Soils. *Morishita, Y.*, +, *TGRS Feb. 2015 1096-1104*
- Temporal Filtering of InSAR Data Using Statistical Parameters From NWP Models. *Gong, W.*, +, *TGRS July 2015 4033-4044*
- Temporal Stability of X-Band Single-Pass InSAR Heights in a Spruce Forest: Effects of Acquisition Properties and Season. *Solberg, S.*, +, *TGRS March 2015 1607-1614*
- Tensorial Independent Component Analysis-Based Feature Extraction for Polarimetric SAR Data Classification. *Tao, M.*, +, *TGRS May 2015 2481-2495*
- The Characteristics of the Multipath Scattering and the Application for Geometry Extraction in High-Resolution SAR Images. *Zhang, Y.*, +, *TGRS Aug. 2015 4687-4699*
- The Effect of Boreal Forest Canopy in Satellite Snow Mapping—A Multi-sensor Analysis. *Cohen, J.*, +, *TGRS Dec. 2015 6593-6607*
- Theory of Two-Dimensional Signature Morphology for Arbitrarily Moving Surface Targets in Squinted Spotlight Synthetic Aperture Radar. *Garren, D.A.*, *TGRS Sept. 2015 4997-5008*
- Topography Retrieval From Single-Pass POLSAR Data Based on the Polarization-Dependent Intensity Ratio. *Li, Y.*, +, *TGRS June 2015 3160-3177*
- Tropical Cyclone Winds Retrieved From C-Band Cross-Polarized Synthetic Aperture Radar. *Horstmann, J.*, +, *TGRS May 2015 2887-2898*
- UAVSAR Polarimetric Calibration. *Fore, A.G.*, +, *TGRS June 2015 3481-3491*
- Uncertainty Assessment of the Estimated Atmospheric Delay Obtained by a Numerical Weather Model (NMW). *Mateus, P.*, +, *TGRS Dec. 2015 6710-6717*
- Urban Land Use Information Extraction Using the Ultrahigh-Resolution Chinese Airborne SAR Imagery. *Wu, W.*, +, *TGRS Oct. 2015 5583-5599*
- Wall Clutter Mitigation Using Discrete Prolate Spheroidal Sequences for Sparse Reconstruction of Indoor Stationary Scenes. *Ahmad, F.*, +, *TGRS March 2015 1549-1557*
- Waveform Aliasing in Satellite Radar Altimetry. *Smith, W.H.F.*, +, *TGRS April 2015 1671-1682*
- Weather Radar Data Interpolation Using a Kernel-Based Lagrangian Nowcasting Technique. *Ruzanski, E.*, +, *TGRS June 2015 3073-3083*
- X-Band Interferometric SAR Observations of Baltic Fast Ice. *Berg, A.*, +, *TGRS March 2015 1248-1256*
- Risk management**
- Modeling and Simulation of Glacier Avalanche: A Case Study of Gayari Sector Glaciers Hazards Assessment. *Mahboob, M.A.*, +, *TGRS Nov. 2015 5824-5834*
- Rivers**
- A Wavelet-Enhanced Inversion Method for Water Quality Retrieval From High Spectral Resolution Data for Complex Waters. *Ampe, E.M.*, +, *TGRS Feb. 2015 869-882*
- On the Feasibility of Characterizing Soil Properties From AVIRIS Data. *Dutta, D.*, +, *TGRS Sept. 2015 5133-5147*
- Road building**
- Calibration of FDTD Simulation of GPR Signal for Asphalt Pavement Compaction Monitoring. *Shangguan, P.*, +, *TGRS March 2015 1538-1548*
- Iterative Tensor Voting for Pavement Crack Extraction Using Mobile Laser Scanning Data. *Guan, H.*, +, *TGRS March 2015 1527-1537*

Roads

Iterative Tensor Voting for Pavement Crack Extraction Using Mobile Laser Scanning Data. *Guan, H.*, +, *TGRS March 2015 1527-1537*

Rocks

MAGI: A New High-Performance Airborne Thermal-Infrared Imaging Spectrometer for Earth Science Applications. *Hall, J.L.*, +, *TGRS Oct. 2015 5447-5457*

Rotational-vibrational energy transfer

A Model for the Complex Dielectric Constant of Supercooled Liquid Water at Microwave Frequencies. *Rosenkranz, P.W.*, *TGRS March 2015 1387-1393*

Rough set theory

Hyperspectral Band Selection Based on Rough Set. *Patra, S.*, +, *TGRS Oct. 2015 5495-5503*

Rough surfaces

Electromagnetic Wave Scattering Analysis From 2-D Periodic Rough Surfaces Using Complex Images Technique. *Barzegar-Parizi, S.*, +, *TGRS Feb. 2015 862-868*

On Detectability of a Ship's Kelvin Wake in Simulated SAR Images of Rough Sea Surface. *Zilman, G.*, +, *TGRS Feb. 2015 609-619*

S**S-matrix theory**

Time Reversal Imaging of Deeply Buried Targets Under Moderately Rough Surfaces Using Approximate Transmitted Fields. *Moghadasi, S.M.*, +, *TGRS July 2015 3897-3905*

Wideband Frequency Domain Method of Soil Dielectric Property Measurements. *Bobrov, P.P.*, +, *TGRS May 2015 2366-2372*

Salinity (geophysical)

Cross-Sensor Continuity of Satellite-Derived Water Clarity in the Gulf of Mexico: Insights Into Temporal Aliasing and Implications for Long-Term Water Clarity Assessment. *Barnes, B.B.*, +, *TGRS April 2015 1761-1772*

Dielectric Properties of Saline Soils and an Improved Dielectric Model in C-Band. *Wu, Y.*, +, *TGRS Jan. 2015 440-452*

Effect of the Polarization Leakage on the SMOS Image Reconstruction Algorithm: Validation Using Ocean Model and *In Situ* Soil Moisture Data. *Khazaal, A.*, +, *TGRS Sept. 2015 4961-4971*

Sand

Sand Ripple Characterization Using an Extended Synthetic Aperture Sonar Model and Parallel Sampling Method. *Chen, C.*, +, *TGRS Oct. 2015 5547-5559*

Satellite navigation

A Worldwide Ionospheric Model for Fast Precise Point Positioning. *Rovira-Garcia, A.*, +, *TGRS Aug. 2015 4596-4604*

Accurate Estimation of Atmospheric Water Vapor Using GNSS Observations and Surface Meteorological Data. *Alshawaf, F.*, +, *TGRS July 2015 3764-3771*

Combination of Ground- and Space-Based Data to Establish a Global Ionospheric Grid Model. *Chen, P.*, +, *TGRS Feb. 2015 1073-1081*

Sensitivity of PAZ LEO Polarimetric GNSS Radio-Occultation Experiment to Precipitation Events. *Cardellach, E.*, +, *TGRS Jan. 2015 190-206*

Spatial Decorrelation in GNSS-Based SAR Coherent Change Detection. *Zhang, Q.*, +, *TGRS Jan. 2015 219-228*

Tsunami-Wave Parameter Estimation Using GNSS-Based Sea Surface Height Measurement. *Yu, K.*, *TGRS May 2015 2603-2611*

Sea ice

Arctic Sea Ice Freeboard Retrieval With Waveform Characteristics for NASA's Airborne Topographic Mapper (ATM) and Land, Vegetation, and Ice Sensor (LVIS). *Yi, D.*, +, *TGRS March 2015 1403-1410*

Comparison of SSM/I and AMSR-E Sea Ice Concentrations With ASPeCt Ship Observations Around Antarctica. *Beitsch, A.*, +, *TGRS April 2015 1985-1996*

Emulating Sentinel-1 Doppler Radial Ice Drift Measurements Using Envisat ASAR Data. *Kramer, T.*, +, *TGRS Dec. 2015 6407-6418*

Fine-Resolution Radar Altimeter Measurements on Land and Sea Ice. *Patel, A.*, +, *TGRS May 2015 2547-2564*

Image Processing for Identification of Sea-Ice Floes and the Floe Size Distributions. *Zhang, Q.*, +, *TGRS May 2015 2913-2924*

Modeling and Measurement of C-Band Radar Backscatter From Snow-Covered First-Year Sea Ice. *Komarov, A.S.*, +, *TGRS July 2015 4063-4078*

Numerical and Experimental Evaluation of Terrestrial LiDAR for Parameterizing Centimeter-Scale Sea Ice Surface Roughness. *Landy, J.C.*, +, *TGRS Sept. 2015 4887-4898*

Parameterization of Centimeter-Scale Sea Ice Surface Roughness Using Terrestrial LiDAR. *Landy, J.C.*, +, *TGRS March 2015 1271-1286*

Thin Ice Detection in the Barents and Kara Seas With AMSR-E and SSMIS Radiometer Data. *Makynen, M.*, +, *TGRS Sept. 2015 5036-5053*

X-Band Interferometric SAR Observations of Baltic Fast Ice. *Berg, A.*, +, *TGRS March 2015 1248-1256*

Sea level

Retrieval of Significant Wave Height and Mean Sea Surface Level Using the GNSS-R Interference Pattern Technique: Results From a Three-Month Field Campaign. *Alonso-Arroyo, A.*, +, *TGRS June 2015 3198-3209*

Validation of Significant Wave Height From Improved Satellite Altimetry in the German Bight. *Passaro, M.*, +, *TGRS April 2015 2146-2156*

Sea surface

Correction to "Algorithm for Sea Surface Wind Retrieval From TerraSAR-X and TanDEM-X Data" [May 14 2928-2939]. *Li, X.*, +, *TGRS Jan. 2015 578*

Corrections to "Automatic Sea-Surface Obstacle Detection and Tracking in Forward-Looking Sonar Image Sequences" [Aug 15 4661-4669]. *Karoui, I.*, +, *TGRS Nov. 2015 6315*

Seafloor phenomena

Fast Unsupervised Seafloor Characterization in Sonar Imagery Using Lacunarity. *Williams, D.P.*, *TGRS Nov. 2015 6022-6034*

High-Resolution Maps of Bathymetry and Benthic Habitats in Shallow-Water Environments Using Multispectral Remote Sensing Imagery. *Eugenio, F.*, +, *TGRS July 2015 3539-3549*

Sand Ripple Characterization Using an Extended Synthetic Aperture Sonar Model and Parallel Sampling Method. *Chen, C.*, +, *TGRS Oct. 2015 5547-5559*

Search radar

A Performance Evaluation of SAR-GMTI Missions for Maritime Applications. *Makhoul, E.*, +, *TGRS May 2015 2496-2509*

Extracting Migrant Flight Orientation Profiles Using Polarimetric Radar. *Stepanian, P.M.*, +, *TGRS Dec. 2015 6518-6528*

Optimizing Radiation Patterns of a Cylindrical Polarimetric Phased-Array Radar for Multimissions. *Karimkashi, S.*, +, *TGRS May 2015 2810-2818*

Radon-Linear Canonical Ambiguity Function-Based Detection and Estimation Method for Marine Target With Micromotion. *Chen, X.*, +, *TGRS April 2015 2225-2240*

Seawater

High-Resolution Maps of Bathymetry and Benthic Habitats in Shallow-Water Environments Using Multispectral Remote Sensing Imagery. *Eugenio, F.*, +, *TGRS July 2015 3539-3549*

Seismic waves

Automatic Seismic Signal Detection via Record Segmentation. *Pikoulis, E.*, +, *TGRS July 2015 3870-2884*

Seismology

Inference of the Transition Matrix in Convolved Hidden Markov Models and the Generalized Baum-Welch Algorithm. *Lindberg, D.V.*, +, *TGRS Dec. 2015 6443-6456*

Sensitivity analysis

A Global Sensitivity Analysis of Soil Parameters Associated With Backscattering Using the Advanced Integral Equation Model. *Ma, C.*, +, *TGRS Oct. 2015 5613-5623*

Fast Analysis of C-Scans From Ground Penetrating Radar via 3-D Haar-Like Features With Application to Landmine Detection. *Klesk, P.*, +, *TGRS July 2015 3996-4009*

Sensitivity of Pol-InSAR Measurements to Vegetation Parameters. *Oveisharan, S.*, +, *TGRS Dec. 2015 6561-6572*

Sensor fusion

A Novel Subpixel Phase Correlation Method Using Singular Value Decomposition and Unified Random Sample Consensus. *Tong, X.*, +, *TGRS Aug. 2015 4143-4156*

A Three-Dimensional Model-Based Approach to the Estimation of the Tree Top Height by Fusing Low-Density LiDAR Data and Very High Resolution Optical Images. *Paris, C.*, +, *TGRS Jan. 2015 467-480*

Sensors

A Wavelet-Packet-Based Radar Waveform for High Resolution in Range and Velocity Detection. *Cao, S.*, +, *TGRS Jan. 2015 229-243*

Multiple-Instance Hidden Markov Models With Applications to Landmine Detection. *Yuksel, S.E.*, +, *TGRS Dec. 2015 6766-6775*

S2eteS: An End-to-End Modeling Tool for the Simulation of Sentinel-2 Image Products. *Segl, K.*, +, *TGRS Oct. 2015 5560-5571*

Series (mathematics)

- Electromagnetic Wave Scattering Analysis From 2-D Periodic Rough Surfaces Using Complex Images Technique. *Barzegar-Parizi, S.*, +, *TGRS Feb. 2015 862-868*
- Theory of Two-Dimensional Signature Morphology for Arbitrarily Moving Surface Targets in Squinted Spotlight Synthetic Aperture Radar. *Garren, D.A.*, *TGRS Sept. 2015 4997-5008*

Ships

- Compressed-Domain Ship Detection on Spaceborne Optical Image Using Deep Neural Network and Extreme Learning Machine. *Tang, J.*, +, *TGRS March 2015 1174-1185*
- Detection of Moving Ships Based on a Combination of Magnitude and Phase in Along-Track Interferometric SAR—Part I: SIMP Metric and Its Performance. *Gao, G.*, +, *TGRS July 2015 3565-3581*
- Detection of Moving Ships Based on a Combination of Magnitude and Phase in Along-Track Interferometric SAR—Part II: Statistical Modeling and CFAR Detection. *Gao, G.*, +, *TGRS July 2015 3582-3599*
- Knowledge-Based Multitarget Ship Tracking for HF Surface Wave Radar Systems. *Vivone, G.*, +, *TGRS July 2015 3931-3949*
- On Detectability of a Ship's Kelvin Wake in Simulated SAR Images of Rough Sea Surface. *Zilman, G.*, +, *TGRS Feb. 2015 609-619*
- Optimization of the Degree of Polarization for Enhanced Ship Detection Using Polarimetric RADARSAT-2. *Touzi, R.*, +, *TGRS Oct. 2015 5403-5424*
- Statistical Tests for a Ship Detector Based on the Polarimetric Notch Filter. *Marino, A.*, +, *TGRS Aug. 2015 4578-4595*

Signal processing

- A Novel Subpixel Phase Correlation Method Using Singular Value Decomposition and Unified Random Sample Consensus. *Tong, X.*, +, *TGRS Aug. 2015 4143-4156*
- Gamma Gaussian Inverse Wishart Probability Hypothesis Density for Extended Target Tracking Using X-Band Marine Radar Data. *Granstrom, K.*, +, *TGRS Dec. 2015 6617-6631*

Signal reconstruction

- An Improved M-PRT Technique for Spectral Analysis of Weather Radar Observations. *Tahanout, M.*, +, *TGRS Oct. 2015 5572-5582*
- Analysis of Reconstructions Obtained Solving l^p -Penalized Minimization Problems. *Lenti, F.*, +, *TGRS Sept. 2015 4876-4886*

Signal sampling

- An Improved M-PRT Technique for Spectral Analysis of Weather Radar Observations. *Tahanout, M.*, +, *TGRS Oct. 2015 5572-5582*
- Sampling of Time-Resolved Full-Waveform LIDAR Signals at Sub-Nyquist Rates. *Castorena, J.*, +, *TGRS July 2015 3791-3802*

Simulated annealing

- Parallel Branch-Cut Algorithm Based on Simulated Annealing for Large-Scale Phase Unwrapping. *Huang, Q.*, +, *TGRS July 2015 3833-3846*

Singular value decomposition

- A Multidimensional Extension of the Concept of Coherence in Polarimetric SAR Interferometry. *Alvarez-Perez, J.L.*, *TGRS March 2015 1257-1270*
- A Novel Subpixel Phase Correlation Method Using Singular Value Decomposition and Unified Random Sample Consensus. *Tong, X.*, +, *TGRS Aug. 2015 4143-4156*
- A Subspace Projection Approach for Wall Clutter Mitigation in Through-the-Wall Radar Imaging. *Tivive, F.H.C.*, +, *TGRS April 2015 2108-2122*
- Spectral-Spatial Classification of Hyperspectral Images With a Superpixel-Based Discriminative Sparse Model. *Fang, L.*, +, *TGRS Aug. 2015 4186-4201*
- Temporal Orthogonal Projection Inversion for EMI Sensing of UXO. *Song, L.*, +, *TGRS Feb. 2015 1061-1072*

Sky brightness

- MTSAT-1R Visible Imager Point Spread Correction Function, Part I: The Need for, Validation of, and Calibration With. *Doelling, D.R.*, +, *TGRS March 2015 1513-1526*

Smoothing methods

- Detail-Preserving Smoothing Classifier Based on Conditional Random Fields for High Spatial Resolution Remote Sensing Imagery. *Zhao, J.*, +, *TGRS May 2015 2440-2452*

Snow

- A Bayesian Method for Upsizing Single Disdrometer Drop Size Counts for Rain Physics Studies and Areal Applications. *Jameson, A.R.*, *TGRS Jan. 2015 335-343*
- A New Hybrid Snow Light Scattering Model Based on Geometric Optics Theory and Vector Radiative Transfer Theory. *Xiong, C.*, +, *TGRS Sept. 2015 4862-4875*

- A Semiautomated Multilayer Picking Algorithm for Ice-Sheet Radar Echograms Applied to Ground-Based Near-Surface Data. *Onana, V.d.P.*, +, *TGRS Jan. 2015 51-69*

- Characterizing Snowpack and the Freeze–Thaw State of Underlying Soil via Assimilation of Multifrequency Passive/Active Microwave Data: A Case Study (NASA CLPX 2003). *Batani, S.M.*, +, *TGRS Jan. 2015 173-189*

- Error Characterization of Coupled Land Surface–Radiative Transfer Models for Snow Microwave Radiance Assimilation. *Kwon, Y.*, +, *TGRS Sept. 2015 5247-5268*

- Fine-Resolution Radar Altimeter Measurements on Land and Sea Ice. *Patel, A.*, +, *TGRS May 2015 2547-2564*

- Hemispherical-Directional Reflectance (HDRF) of Windblown Snow-Covered Arctic Tundra at Large Solar Zenith Angles. *Ball, C.P.*, +, *TGRS Oct. 2015 5377-5387*

- Large-Scale High-Resolution Modeling of Microwave Radiance of a Deep Maritime Alpine Snowpack. *Li, D.*, +, *TGRS May 2015 2308-2322*

- Modeling and Measurement of C-Band Radar Backscatter From Snow-Covered First-Year Sea Ice. *Komarov, A.S.*, +, *TGRS July 2015 4063-4078*

- Modeling L-Band Brightness Temperature at Dome C in Antarctica and Comparison With SMOS Observations. *Leduc-Leballeur, M.*, +, *TGRS July 2015 4022-4032*

- Modeling Radar Attenuation by a Low Melting Layer With Optimized Model Parameters at C-Band. *von Lerber, A.*, +, *TGRS Feb. 2015 724-737*

- Snow Depth Estimation Based on Multipath Phase Combination of GPS Triple-Frequency Signals. *Yu, K.*, +, *TGRS Sept. 2015 5100-5109*

- The Effect of Boreal Forest Canopy in Satellite Snow Mapping—A Multi-sensor Analysis. *Cohen, J.*, +, *TGRS Dec. 2015 6593-6607*

Socio-economic effects

- Spatiotemporal Detection and Analysis of Urban Villages in Mega City Regions of China Using High-Resolution Remotely Sensed Imagery. *Huang, X.*, +, *TGRS July 2015 3639-3657*

Soil

- A Combined Active–Passive Soil Moisture Estimation Algorithm With Adaptive Regularization in Support of SMAP. *Akbar, R.*, +, *TGRS June 2015 3312-3324*

- A Comparison of ASCAT Soil Moisture Data With *In Situ* Observations Over the Indian Region: A Multiscale Analysis. *Bhimala, K.R.*, +, *TGRS Oct. 2015 5425-5434*

- A Cumulative Distribution Function Method for Normalizing Variable-Angle Microwave Observations. *Ye, N.*, +, *TGRS July 2015 3906-3916*

- A Global Sensitivity Analysis of Soil Parameters Associated With Backscattering Using the Advanced Integral Equation Model. *Ma, C.*, +, *TGRS Oct. 2015 5613-5623*

- A Semi-Empirical Model for Computing Land Surface Emissivity in the Microwave Region. *Ringerud, S.*, +, *TGRS April 2015 1935-1946*

- A Semiphysical Microwave Surface Emission Model for Soil Moisture Retrieval. *Shen, X.*, +, *TGRS July 2015 4079-4090*

- An Algorithm Based on the Standard Deviation of Passive Microwave Brightness Temperatures for Monitoring Soil Surface Freeze/Thaw State on the Tibetan Plateau. *Han, M.*, +, *TGRS May 2015 2775-2783*

- Assessment of Multiple Scattering in the Reflectance of Semiarid Shrublands. *Wang, J.*, +, *TGRS Sept. 2015 4910-4921*

- Classification of Alaska Spring Thaw Characteristics Using Satellite L-Band Radar Remote Sensing. *Du, J.*, +, *TGRS Jan. 2015 542-556*

- Comparison of Dobson and Mironov Dielectric Models in the SMOS Soil Moisture Retrieval Algorithm. *Mialon, A.*, +, *TGRS June 2015 3084-3094*

- Copula-Based Downscaling of Coarse-Scale Soil Moisture Observations With Implicit Bias Correction. *Verhoest, N.E.C.*, +, *TGRS June 2015 3507-3521*

- Deformation Parameter Estimation in Low Coherence Areas Using a Multisatellite InSAR Approach. *Morishita, Y.*, +, *TGRS Aug. 2015 4275-4283*

- Design of an Optimal Soil Moisture Monitoring Network Using SMOS Retrieved Soil Moisture. *Kornelsen, K.C.*, +, *TGRS July 2015 3950-3959*

- Dielectric Properties of Saline Soils and an Improved Dielectric Model in C-Band. *Wu, Y.*, +, *TGRS Jan. 2015 440-452*

- Downscaling Satellite-Based Soil Moisture in Heterogeneous Regions Using High-Resolution Remote Sensing Products and Information Theory: A Synthetic Study. *Chakrabarti, S.*, +, *TGRS Jan. 2015 85-101*

- Effect of the Polarization Leakage on the SMOS Image Reconstruction Algorithm: Validation Using Ocean Model and *In Situ* Soil Moisture Data. *Khazaal, A.*, +, *TGRS Sept. 2015 4961-4971*

- Error Characterization of Coupled Land Surface–Radiative Transfer Models for Snow Microwave Radiance Assimilation. *Kwon, Y.*, +, *TGRS Sept. 2015 5247-5268*

- Estimating Effective Roughness Parameters of the L-MEB Model for Soil Moisture Retrieval Using Passive Microwave Observations From SMAPVEX12. *Martens, B.*, +, *TGRS July 2015 4091-4103*
- Estimation of Hydraulic Properties of a Sandy Soil Using Ground-Based Active and Passive Microwave Remote Sensing. *Jonard, F.*, +, *TGRS June 2015 3095-3109*
- Fast Analysis of C-Scans From Ground Penetrating Radar via 3-D Haar-Like Features With Application to Landmine Detection. *Klesk, P.*, +, *TGRS July 2015 3996-4009*
- Impact of Diurnal Variation in Vegetation Water Content on Radar Backscatter From Maize During Water Stress. *van Emmerik, T.*, +, *TGRS July 2015 3855-3869*
- Improving Soil Moisture Profile Prediction With the Particle Filter-Markov Chain Monte Carlo Method. *Yan, H.*, +, *TGRS Nov. 2015 6134-6147*
- Modeling L-Band Brightness Temperature at Dome C in Antarctica and Comparison With SMOS Observations. *Leduc-Leballeur, M.*, +, *TGRS July 2015 4022-4032*
- Non-Invasive Forest Litter Characterization Using Full-Wave Inversion of Microwave Radar Data. *Andre, F.*, +, *TGRS Feb. 2015 828-840*
- On the Feasibility of Characterizing Soil Properties From AVIRIS Data. *Dutta, D.*, +, *TGRS Sept. 2015 5133-5147*
- Simulation of the SMAP Data Stream From SMAPEX Field Campaigns in Australia. *Wu, X.*, +, *TGRS April 2015 1921-1934*
- Soil Moisture Estimation Under Tropical Forests Using UHF Radar Polarimetry. *Truong-Loi, M.*, +, *TGRS April 2015 1718-1727*
- Soil Moisture Retrieval Using L-Band Radar Observations. *Narvekar, P.S.*, +, *TGRS June 2015 3492-3506*
- Soil Moisture Retrieval Using Neural Networks: Application to SMOS. *Rodriguez-Fernandez, N.J.*, +, *TGRS Nov. 2015 5991-6007*
- Temporal Decorrelation in L-, C-, and X-band Satellite Radar Interferometry for Pasture on Drained Peat Soils. *Morishita, Y.*, +, *TGRS Feb. 2015 1096-1104*
- The Soil Moisture Active Passive Validation Experiment 2012 (SMAPVEX12): Prelaunch Calibration and Validation of the SMAP Soil Moisture Algorithms. *McNairn, H.*, +, *TGRS May 2015 2784-2801*
- Wideband Frequency Domain Method of Soil Dielectric Property Measurements. *Bobrov, P.P.*, +, *TGRS May 2015 2366-2372*
- Solar radiation**
- High-Resolution Maps of Bathymetry and Benthic Habitats in Shallow-Water Environments Using Multispectral Remote Sensing Imagery. *Eugenio, F.*, +, *TGRS July 2015 3539-3549*
- Solid modeling**
- Robust Reconstruction of Building Facades for Large Areas Using Spaceborne TomoSAR Point Clouds. *Shahzad, M.*, +, *TGRS Feb. 2015 752-769*
- Simulation of ISAR Imaging for a Space Target and Reconstruction Under Sparse Sampling via Compressed Sensing. *Wang, F.*, +, *TGRS June 2015 3432-3441*
- Sonar**
- Fast Unsupervised Seafloor Characterization in Sonar Imagery Using Lacunarity. *Williams, D.P.*, +, *TGRS Nov. 2015 6022-6034*
- Sonar detection**
- Automatic Sea-Surface Obstacle Detection and Tracking in Forward-Looking Sonar Image Sequences. *Karoui, I.*, +, *TGRS Aug. 2015 4661-4669*
- Corrections to "Automatic Sea-Surface Obstacle Detection and Tracking in Forward-Looking Sonar Image Sequences" [Aug 15 4661-4669]. *Karoui, I.*, +, *TGRS Nov. 2015 6315*
- Graph-Based Supervised Automatic Target Detection. *Mishne, G.*, +, *TGRS May 2015 2738-2754*
- Sonar imaging**
- Contributions to Automatic Target Recognition Systems for Underwater Mine Classification. *Fei, T.*, +, *TGRS Jan. 2015 505-518*
- Graph-Based Supervised Automatic Target Detection. *Mishne, G.*, +, *TGRS May 2015 2738-2754*
- Sand Ripple Characterization Using an Extended Synthetic Aperture Sonar Model and Parallel Sampling Method. *Chen, C.*, +, *TGRS Oct. 2015 5547-5559*
- Source separation**
- Texture-Based Automatic Separation of Echoes from Distributed Moving Targets in UWB Radar Signals. *Sakamoto, T.*, +, *TGRS Jan. 2015 352-361*
- Space vehicles**
- Calibration of the Mercury Laser Altimeter on the MESSENGER Spacecraft. *Sun, X.*, +, *TGRS May 2015 2860-2874*
- Investigation of the Electronic Crosstalk in Terra MODIS Band 28. *Sun, J.*, +, *TGRS Oct. 2015 5722-5733*
- Spaceborne radar**
- A High-Order Imaging Algorithm for High-Resolution Spaceborne SAR Based on a Modified Equivalent Squint Range Model. *Wang, P.*, +, *TGRS March 2015 1225-1235*
- Advanced Remote Sensing of Internal Waves by Spaceborne Along-Track InSAR—A Demonstration With TerraSAR-X. *Romeiser, R.*, +, *TGRS Dec. 2015 6735-6751*
- An Imaging Compensation Algorithm for Correcting the Impact of Tropospheric Delay on Spaceborne High-Resolution SAR. *Yu, Z.*, +, *TGRS Sept. 2015 4825-4836*
- Classification of Alaska Spring Thaw Characteristics Using Satellite L-Band Radar Remote Sensing. *Du, J.*, +, *TGRS Jan. 2015 542-556*
- Impact of Receiver Saturation on Surface Doppler Velocity Measurements From the EarthCARE Cloud Profiling Radar. *Battaglia, A.*, +, *TGRS March 2015 1205-1212*
- Normalization of TanDEM-X DSM Data in Urban Environments With Morphological Filters. *Geiss, C.*, +, *TGRS Aug. 2015 4348-4362*
- Paddy-Rice Monitoring Using TanDEM-X. *Rossi, C.*, +, *TGRS Feb. 2015 900-910*
- Quantization Effects in TanDEM-X Data. *Martone, M.*, +, *TGRS Feb. 2015 583-597*
- Robust Reconstruction of Building Facades for Large Areas Using Spaceborne TomoSAR Point Clouds. *Shahzad, M.*, +, *TGRS Feb. 2015 752-769*
- Spaceborne MIMO Synthetic Aperture Radar for Multimodal Operation. *Kim, J.*, +, *TGRS May 2015 2453-2466*
- Spatial Decorrelation in GNSS-Based SAR Coherent Change Detection. *Zhang, Q.*, +, *TGRS Jan. 2015 219-228*
- Sparse matrices**
- Interferometric Phase Image Estimation via Sparse Coding in the Complex Domain. *Hongxing, H.*, +, *TGRS May 2015 2587-2602*
- Multitask Sparse Nonnegative Matrix Factorization for Joint Spectral-Spatial Hyperspectral Imagery Denoising. *Ye, M.*, +, *TGRS May 2015 2621-2639*
- Substance Dependence Constrained Sparse NMF for Hyperspectral Unmixing. *Yuan, Y.*, +, *TGRS June 2015 2975-2986*
- Spatial filters**
- Hyperspectral Image Classification Based on Three-Dimensional Scattering Wavelet Transform. *Tang, Y.Y.*, +, *TGRS May 2015 2467-2480*
- Robust Clutter Suppression and Moving Target Imaging Approach for Multichannel in Azimuth High-Resolution and Wide-Swath Synthetic Aperture Radar. *Zhang, S.*, +, *TGRS Feb. 2015 687-709*
- Spatiotemporal phenomena**
- Nonparametric Regression for Estimation of Spatiotemporal Mountain Glacier Retreat From Satellite Images. *Kachouie, N.N.*, +, *TGRS March 2015 1135-1149*
- Spatiotemporal Data Fusion Using Temporal High-Pass Modulation and Edge Primitives. *Malleswara Rao, J.*, +, *TGRS Nov. 2015 5853-5860*
- Spatiotemporal Detection and Analysis of Urban Villages in Mega City Regions of China Using High-Resolution Remotely Sensed Imagery. *Huang, X.*, +, *TGRS July 2015 3639-3657*
- Speckle**
- Adaptive Total Variation Regularization Based SAR Image Despeckling and Despeckling Evaluation Index. *Zhao, Y.*, +, *TGRS May 2015 2765-2774*
- Adaptive-Window Polarimetric SAR Image Speckle Filtering Based on a Homogeneity Measurement. *Lang, F.*, +, *TGRS Oct. 2015 5435-5446*
- Characterization and Correction of Multilook Effects on Eigendecomposition Parameters in PolSAR Images. *Yahia, M.*, +, *TGRS Sept. 2015 5237-5246*
- Interval Edge Estimation in SAR Images. *Dias, L.*, +, *TGRS Feb. 2015 851-861*
- Polarimetric SAR Speckle Filtering and the Extended Sigma Filter. *Lee, J.*, +, *TGRS March 2015 1150-1160*
- SAR Image Change Detection Based on Iterative Label-Information Composite Kernel Supervised by Anisotropic Texture. *Jia, L.*, +, *TGRS July 2015 3960-3973*
- Spectral analysis**
- A Novel Graph-Matching-Based Approach for Domain Adaptation in Classification of Remote Sensing Image Pair. *Banerjee, B.*, +, *TGRS July 2015 4045-4062*
- An Improved M-PRT Technique for Spectral Analysis of Weather Radar Observations. *Tahanout, M.*, +, *TGRS Oct. 2015 5572-5582*

- Analysis of Oblique Aerial Images for Land Cover and Point Cloud Classification in an Urban Environment. *Rau, J.*, +, *TGRS March 2015 1304-1319*
- Assessment of Multiple Scattering in the Reflectance of Semiarid Shrublands. *Wang, J.*, +, *TGRS Sept. 2015 4910-4921*
- Automated Underwater Object Recognition by Means of Fluorescence LIDAR. *Matteoli, S.*, +, *TGRS Jan. 2015 375-393*
- Complementarity of Discriminative Classifiers and Spectral Unmixing Techniques for the Interpretation of Hyperspectral Images. *Li, J.*, +, *TGRS May 2015 2899-2912*
- Hierarchical Unsupervised Change Detection in Multitemporal Hyperspectral Images. *Liu, S.*, +, *TGRS Jan. 2015 244-260*
- Model-Based Fusion of Multi- and Hyperspectral Images Using PCA and Wavelets. *Palsson, F.*, +, *TGRS May 2015 2652-2663*
- Novel Methods to Accelerate CS Radar Imaging by NUFFT. *Sun, S.*, +, *TGRS Jan. 2015 557-566*
- On Spectral Unmixing Resolution Using Extended Support Vector Machines. *Li, X.*, +, *TGRS Sept. 2015 4985-4996*
- Semisupervised Hyperspectral Classification Using Task-Driven Dictionary Learning With Laplacian Regularization. *Wang, Z.*, +, *TGRS March 2015 1161-1173*
- Sequential Spectral Change Vector Analysis for Iteratively Discovering and Detecting Multiple Changes in Hyperspectral Images. *Liu, S.*, +, *TGRS Aug. 2015 4363-4378*
- Spectral Image Unmixing From Optimal Coded-Aperture Compressive Measurements. *Ramirez, A.*, +, *TGRS Jan. 2015 405-415*
- Spectral-Spatial Kernel Regularized for Hyperspectral Image Denoising. *Yuan, Y.*, +, *TGRS July 2015 3815-3832*
- Supervised Spectral-Spatial Hyperspectral Image Classification With Weighted Markov Random Fields. *Sun, L.*, +, *TGRS March 2015 1490-1503*
- Systematic Error Compensation Based on a Rational Function Model for Ziyuan1-02C. *Jiang, Y.*, +, *TGRS July 2015 3985-3995*
- Spectrophotometers**
- Terra and Aqua MODIS Thermal Emissive Bands On-Orbit Calibration and Performance. *Xiong, X.*, +, *TGRS Oct. 2015 5709-5721*
- Stability**
- Multiplicative-Regularized FFT Twofold Subspace-Based Optimization Method for Inverse Scattering Problems. *Xu, K.*, +, *TGRS Feb. 2015 841-850*
- Stable Mean-Shift Algorithm and Its Application to the Segmentation of Arbitrarily Large Remote Sensing Images. *Michel, J.*, +, *TGRS Feb. 2015 952-964*
- State-space methods**
- Dynamical Approach for Real-Time Monitoring of Agricultural Crops. *Vicente-Guijalba, F.*, +, *TGRS June 2015 3278-3293*
- Statistical analysis**
- A Bayesian Method for Upsizing Single Disdrometer Drop Size Counts for Rain Physics Studies and Areal Applications. *Jameson, A.R.*, *TGRS Jan. 2015 335-343*
- A Cluster-Analysis-Based Noise-Robust Phase-Unwrapping Algorithm for Multibaseline Interferograms. *Liu, H.*, +, *TGRS Jan. 2015 494-504*
- An Automatic \mathcal{U} -Distribution and Markov Random Field Segmentation Algorithm for PolSAR Images. *Doulgeris, A.P.*, *TGRS April 2015 1819-1827*
- Change Detection in Constellations of Buried Objects Extracted From Ground-Penetrating Radar Data. *Paglieroni, D.W.*, +, *TGRS May 2015 2426-2439*
- Detection of Moving Ships Based on a Combination of Magnitude and Phase in Along-Track Interferometric SAR—Part II: Statistical Modeling and CFAR Detection. *Gao, G.*, +, *TGRS July 2015 3582-3599*
- Fast Statistically Homogeneous Pixel Selection for Covariance Matrix Estimation for Multitemporal InSAR. *Jiang, M.*, +, *TGRS March 2015 1213-1224*
- Fast Subpixel Mapping Algorithms for Subpixel Resolution Change Detection. *Wang, Q.*, +, *TGRS April 2015 1692-1706*
- Future Ocean Scatterometry: On the Use of Cross-Polar Scattering to Observe Very High Winds. *Fois, F.*, +, *TGRS Sept. 2015 5009-5020*
- Interval Edge Estimation in SAR Images. *Dias, L.*, +, *TGRS Feb. 2015 851-861*
- Multiple-Instance Hidden Markov Models With Applications to Landmine Detection. *Yuksel, S.E.*, +, *TGRS Dec. 2015 6766-6775*
- Rotational Pixel Swapping Method for Detection of Circular Features in Binary Images. *Yamamoto, S.*, +, *TGRS Feb. 2015 710-723*
- Statistical Tests for a Ship Detector Based on the Polarimetric Notch Filter. *Marino, A.*, +, *TGRS Aug. 2015 4578-4595*
- Temporal Filtering of InSAR Data Using Statistical Parameters From NWP Models. *Gong, W.*, +, *TGRS July 2015 4033-4044*
- Thin Ice Detection in the Barents and Kara Seas With AMSR-E and SSMIS Radiometer Data. *Makynen, M.*, +, *TGRS Sept. 2015 5036-5053*
- Two-Stage Change Detection for Synthetic Aperture Radar. *Cha, M.*, +, *TGRS Dec. 2015 6547-6560*
- Statistical distributions**
- Semisupervised Transfer Component Analysis for Domain Adaptation in Remote Sensing Image Classification. *Matasci, G.*, +, *TGRS July 2015 3550-3564*
- Stereo image processing**
- Automated Generation of a Digital Elevation Model Over Steep Terrain in Antarctica From High-Resolution Satellite Imagery. *Lee, C.*, +, *TGRS March 2015 1186-1194*
- Forest Data Collection Using Terrestrial Image-Based Point Clouds From a Handheld Camera Compared to Terrestrial and Personal Laser Scanning. *Liang, X.*, +, *TGRS Sept. 2015 5117-5132*
- Stochastic processes**
- A Bayesian Method for Upsizing Single Disdrometer Drop Size Counts for Rain Physics Studies and Areal Applications. *Jameson, A.R.*, *TGRS Jan. 2015 335-343*
- Extraction of Vehicle Groups in Airborne Lidar Point Clouds With Two-Level Point Processes. *Borcs, A.*, +, *TGRS March 2015 1475-1489*
- Multiple-Instance Hidden Markov Models With Applications to Landmine Detection. *Yuksel, S.E.*, +, *TGRS Dec. 2015 6766-6775*
- Storage management**
- Novel Methods to Accelerate CS Radar Imaging by NUFFT. *Sun, S.*, +, *TGRS Jan. 2015 557-566*
- Storms**
- A New Approach to Ocean Wave Parameter Estimates From C-Band ScanSAR Images. *Romeiser, R.*, +, *TGRS March 2015 1320-1345*
- A New Satellite-Based Indicator for Estimation of the Western North Pacific Tropical Cyclone Current Intensity. *Zhuge, X.*, +, *TGRS Oct. 2015 5661-5676*
- Analysis of Interactions Among Two Tropical Depressions and Typhoons Tembin and Bolaven (2012) in Pacific Ocean by Using Satellite Cloud Images. *Liu, J.*, +, *TGRS March 2015 1394-1402*
- Spatial-Response Matched Filter and Its Application in Radiometric Accuracy Improvement of FY-2 Satellite Thermal Infrared Band. *Guo, Q.*, +, *TGRS May 2015 2397-2408*
- Synergistic Use of Satellite Observations and Numerical Weather Model to Study Atmospheric Occluded Fronts. *Li, X.*, +, *TGRS Sept. 2015 5269-5279*
- Tropical Cyclone Winds Retrieved From C-Band Cross-Polarized Synthetic Aperture Radar. *Horstmann, J.*, +, *TGRS May 2015 2887-2898*
- Stratosphere**
- Characteristics of the Trends in the Global Tropopause Estimated From COSMIC Radio Occultation Data. *Gao, P.*, +, *TGRS Dec. 2015 6813-6822*
- Submillimeter wave detectors**
- Minimum-Entropy-Based Adaptive Focusing Algorithm for Image Reconstruction of Terahertz Single-Frequency Holography With Improved Depth of Focus. *Sun, Z.*, +, *TGRS Jan. 2015 519-526*
- Submillimeter wave imaging**
- Minimum-Entropy-Based Adaptive Focusing Algorithm for Image Reconstruction of Terahertz Single-Frequency Holography With Improved Depth of Focus. *Sun, Z.*, +, *TGRS Jan. 2015 519-526*
- Sunlight**
- Measurement and Correction of Atmospheric Effects at Different Altitudes for Remote Sensing of Sun-Induced Fluorescence in Oxygen Absorption Bands. *Daumard, F.*, +, *TGRS Sept. 2015 5180-5196*
- Supercooling**
- A Model for the Complex Dielectric Constant of Supercooled Liquid Water at Microwave Frequencies. *Rosenkranz, P.W.*, *TGRS March 2015 1387-1393*
- Support vector machines**
- A Novel Active Learning Method in Relevance Feedback for Content-Based Remote Sensing Image Retrieval. *Demir, B.*, +, *TGRS May 2015 2323-2334*
- A Novel Feature Selection Approach Based on FODPSO and SVM. *Ghamisi, P.*, +, *TGRS May 2015 2935-2947*
- A Novel MKL Model of Integrating LiDAR Data and MSI for Urban Area Classification. *Gu, Y.*, +, *TGRS Oct. 2015 5312-5326*
- Classification of Hyperspectral Images by Exploiting Spectral-Spatial Information of Superpixel via Multiple Kernels. *Fang, L.*, +, *TGRS Dec. 2015 6663-6674*

- Complementarity of Discriminative Classifiers and Spectral Unmixing Techniques for the Interpretation of Hyperspectral Images. *Li, J.*, +, *TGRS May 2015 2899-2912*
- Extended Random Walker-Based Classification of Hyperspectral Images. *Kang, X.*, +, *TGRS Jan. 2015 144-153*
- High-Resolution Maps of Bathymetry and Benthic Habitats in Shallow-Water Environments Using Multispectral Remote Sensing Imagery. *Eugenio, F.*, +, *TGRS July 2015 3539-3549*
- Hyperspectral Image Classification Based on Three-Dimensional Scattering Wavelet Transform. *Tang, Y.Y.*, +, *TGRS May 2015 2467-2480*
- Intrinsic Image Decomposition for Feature Extraction of Hyperspectral Images. *Kang, X.*, +, *TGRS April 2015 2241-2253*
- Measuring the Effectiveness of Various Features for Thematic Information Extraction From Very High Resolution Remote Sensing Imagery. *Chen, X.*, +, *TGRS Sept. 2015 4837-4851*
- Novel Two-Dimensional Singular Spectrum Analysis for Effective Feature Extraction and Data Classification in Hyperspectral Imaging. *Zabalza, J.*, +, *TGRS Aug. 2015 4418-4433*
- On Spectral Unmixing Resolution Using Extended Support Vector Machines. *Li, X.*, +, *TGRS Sept. 2015 4985-4996*
- Region-Kernel-Based Support Vector Machines for Hyperspectral Image Classification. *Peng, J.*, +, *TGRS Sept. 2015 4810-4824*
- SAR Image Change Detection Based on Iterative Label-Information Composite Kernel Supervised by Anisotropic Texture. *Jia, L.*, +, *TGRS July 2015 3960-3973*
- Spatial-Aware Dictionary Learning for Hyperspectral Image Classification. *Soltani-Farani, A.*, +, *TGRS Jan. 2015 527-541*
- Spectral-Spatial Classification of Hyperspectral Data via Morphological Component Analysis-Based Image Separation. *Xue, Z.*, +, *TGRS Jan. 2015 70-84*
- Spectral-Spatial Classification of Hyperspectral Images via Spatial Translation-Invariant Wavelet-Based Sparse Representation. *He, L.*, +, *TGRS May 2015 2696-2712*
- Tensorial Independent Component Analysis-Based Feature Extraction for Polarimetric SAR Data Classification. *Tao, M.*, +, *TGRS May 2015 2481-2495*
- Surface electromagnetic waves**
- Extension of the Spectral Acceleration Method to Lossy Medium and Its Application to Electromagnetic Scattering From Rough Surfaces. *Wang, Y.*, +, *TGRS April 2015 1865-1875*
- Surface roughness**
- Extension of the Spectral Acceleration Method to Lossy Medium and Its Application to Electromagnetic Scattering From Rough Surfaces. *Wang, Y.*, +, *TGRS April 2015 1865-1875*
- Parameterization of Centimeter-Scale Sea Ice Surface Roughness Using Terrestrial LiDAR. *Landy, J.C.*, +, *TGRS March 2015 1271-1286*
- Surveying**
- Extracting Man-Made Objects From High Spatial Resolution Remote Sensing Images via Fast Level Set Evolutions. *Li, Z.*, +, *TGRS Feb. 2015 883-899*
- Synchronization**
- Reconstruction of Coherent Pairs of Synthetic Aperture Radar Data Acquired in Interrupted Mode. *Pinheiro, M.*, +, *TGRS April 2015 1876-1893*
- Synthetic aperture radar**
- A Backscattering Model of Rainfall Over Rough Sea Surface for Synthetic Aperture Radar. *Xu, F.*, +, *TGRS June 2015 3042-3054*
- A Bistatic SAR Image Intensity Model for the Composite Ship-Ocean Scene. *Zhao, Y.*, +, *TGRS Aug. 2015 4250-4258*
- A Cluster-Analysis-Based Noise-Robust Phase-Unwrapping Algorithm for Multibaseline Interferograms. *Liu, H.*, +, *TGRS Jan. 2015 494-504*
- A Dense Medium Microwave Backscattering Model for the Remote Sensing of Oil Palm. *Teng, K.C.*, +, *TGRS June 2015 3250-3259*
- A Fast Radial Scanned Near-Field 3-D SAR Imaging System and the Reconstruction Method. *Li, Z.*, +, *TGRS March 2015 1355-1363*
- A High-Order Imaging Algorithm for High-Resolution Spaceborne SAR Based on a Modified Equivalent Squint Range Model. *Wang, P.*, +, *TGRS March 2015 1225-1235*
- A Multidimensional Extension of the Concept of Coherence in Polarimetric SAR Interferometry. *Alvarez-Perez, J.L.*, +, *TGRS March 2015 1257-1270*
- A New Approach to Ocean Wave Parameter Estimates From C-Band ScanSAR Images. *Romeiser, R.*, +, *TGRS March 2015 1320-1345*
- A New Detection Algorithm for Coherent Scatterers in SAR Data. *Sanjuan-Ferrer, M.J.*, +, *TGRS Nov. 2015 6293-6307*
- A New Framework for SAR Multitemporal Data RGB Representation: Rationale and Products. *Amitrano, D.*, +, *TGRS Jan. 2015 117-133*
- A Performance Evaluation of SAR-GMTI Missions for Maritime Applications. *Makhoul, E.*, +, *TGRS May 2015 2496-2509*
- A Radon-Transform-Based Image Noise Filter—With Applications to Multibeam Bathymetry. *Landmark, K.*, +, *TGRS Nov. 2015 6252-6273*
- A Resample-Based SVA Algorithm for Sidelobe Reduction of SAR/ISAR Imagery With Noninteger Nyquist Sampling Rate. *Xiong, T.*, +, *TGRS Feb. 2015 1016-1028*
- A Two-Component K -Lognormal Mixture Model and Its Parameter Estimation Method. *Zhou, X.*, +, *TGRS May 2015 2640-2651*
- A Wavelet-Packet-Based Radar Waveform for High Resolution in Range and Velocity Detection. *Cao, S.*, +, *TGRS Jan. 2015 229-243*
- Adaptive Total Variation Regularization Based SAR Image Despeckling and Despeckling Evaluation Index. *Zhao, Y.*, +, *TGRS May 2015 2765-2774*
- Adaptive-Window Polarimetric SAR Image Speckle Filtering Based on a Homogeneity Measurement. *Lang, F.*, +, *TGRS Oct. 2015 5435-5446*
- Advanced Remote Sensing of Internal Waves by Spaceborne Along-Track InSAR—A Demonstration With TerraSAR-X. *Romeiser, R.*, +, *TGRS Dec. 2015 6735-6751*
- Airborne SAR Moving Target Signatures and Imagery Based on LVD. *Yang, L.*, +, *TGRS Nov. 2015 5958-5971*
- An Automatic U -Distribution and Markov Random Field Segmentation Algorithm for PolSAR Images. *Doulgeris, A.P.*, +, *TGRS April 2015 1819-1827*
- An Imaging Compensation Algorithm for Correcting the Impact of Tropospheric Delay on Spaceborne High-Resolution SAR. *Yu, Z.*, +, *TGRS Sept. 2015 4825-4836*
- An Improvement in Multichannel SAR-GMTI Detection in Heterogeneous Environments. *Liu, B.*, +, *TGRS Feb. 2015 810-827*
- An Improvement of Ionospheric Phase Correction by Multiple-Aperture Interferometry. *Jung, H.*, +, *TGRS Sept. 2015 4952-4960*
- An Ocean Wind Doppler Model Based on the Generalized Curvature Ocean Surface Scattering Model. *Said, F.*, +, *TGRS Dec. 2015 6632-6638*
- Analysis of Multistatic Pixel Correlation in SAR. *Duersch, M.I.*, +, *TGRS Jan. 2015 362-374*
- Analysis of X-Band SAR Sea-Clutter Distributions at Different Grazing Angles. *Fiche, A.*, +, *TGRS Aug. 2015 4650-4660*
- Anisotropic Phase Unwrapping for Synthetic Aperture Radar Interferometry. *Danudirdjo, D.*, +, *TGRS July 2015 4116-4126*
- Automatic Estimation of Oil Seep Locations in Synthetic Aperture Radar Images. *Suresh, G.*, +, *TGRS Aug. 2015 4218-4230*
- Automatic Optical-to-SAR Image Registration by Iterative Line Extraction and Voronoi Integrated Spectral Point Matching. *Sui, H.*, +, *TGRS Nov. 2015 6058-6072*
- Averaged Stokes Vector Based Polarimetric SAR Data Interpretation. *Shang, F.*, +, *TGRS Aug. 2015 4536-4547*
- Building Change Detection in Multitemporal Very High Resolution SAR Images. *Marin, C.*, +, *TGRS May 2015 2664-2682*
- CAESAR: An Approach Based on Covariance Matrix Decomposition to Improve Multibaseline-Multitemporal Interferometric SAR Processing. *Fornaro, G.*, +, *TGRS April 2015 2050-2065*
- Calibration of SAR Polarimetric Images by Means of a Covariance Matching Approach. *Villa, A.*, +, *TGRS Feb. 2015 674-686*
- Capabilities of BIOMASS Tomography for Investigating Tropical Forests. *Ho Tong Minh, D.*, +, *TGRS Feb. 2015 965-975*
- Characterization and Correction of Multilook Effects on Eigendecomposition Parameters in PolSAR Images. *Yahia, M.*, +, *TGRS Sept. 2015 5237-5246*
- Characterization of Facade Regularities in High-Resolution SAR Images. *Auer, S.*, +, *TGRS May 2015 2727-2737*
- Classification of Alaska Spring Thaw Characteristics Using Satellite L-Band Radar Remote Sensing. *Du, J.*, +, *TGRS Jan. 2015 542-556*
- Comparing Near-Coincident C- and X-Band SAR Acquisitions of Marine Oil Spills. *Skrunes, S.*, +, *TGRS April 2015 1958-1975*
- Coprime Synthetic Aperture Radar (CopSAR): A New Acquisition Mode for Maritime Surveillance. *Di Martino, G.*, +, *TGRS June 2015 3110-3123*
- Correcting Distortion of Polarimetric SAR Data Induced by Ionospheric Scintillation. *Kim, J.S.*, +, *TGRS Dec. 2015 6319-6335*
- Correction to "Algorithm for Sea Surface Wind Retrieval From TerraSAR-X and TanDEM-X Data" [May 14 2928-2939]. *Li, X.*, +, *TGRS Jan. 2015 578*
- Corrections to "Estimation of Forest Biomass From Two-Level Model Inversion of Single-Pass InSAR Data" {Sep 15 5083-5099}. *Soja, M.J.*, +, *TGRS Oct. 2015 5795*

- Cubic Phase Distortion and Irregular Degradation on SAR Imaging Due to the Ionosphere. *Wang, C.*, +, *TGRS June 2015 3442-3451*
- Deformation Parameter Estimation in Low Coherence Areas Using a Multisatellite InSAR Approach. *Morishita, Y.*, +, *TGRS Aug. 2015 4275-4283*
- Detection and Imaging of Ground Moving Targets With Real SAR Data. *Yang, J.*, +, *TGRS Feb. 2015 920-932*
- Detection of Moving Ships Based on a Combination of Magnitude and Phase in Along-Track Interferometric SAR—Part I: SIMP Metric and Its Performance. *Gao, G.*, +, *TGRS July 2015 3565-3581*
- Detection of Moving Ships Based on a Combination of Magnitude and Phase in Along-Track Interferometric SAR—Part II: Statistical Modeling and CFAR Detection. *Gao, G.*, +, *TGRS July 2015 3582-3599*
- Doppler-Related Distortions in TOPS SAR Images. *Rodriguez-Cassola, M.*, +, *TGRS Jan. 2015 25-35*
- Emulating Sentinel-1 Doppler Radial Ice Drift Measurements Using Envisat ASAR Data. *Kramer, T.*, +, *TGRS Dec. 2015 6407-6418*
- Estimating Forest Biomass From TerraSAR-X Stripmap Radargrammetry. *Solberg, S.*, +, *TGRS Jan. 2015 154-161*
- Estimation of Forest Biomass From Two-Level Model Inversion of Single-Pass InSAR Data. *Soja, M.J.*, +, *TGRS Sept. 2015 5083-5099*
- Experimental Results and Algorithm Analysis of DEM Generation Using Bistatic SAR Interferometry With Stationary Receiver. *Zeng, T.*, +, *TGRS Nov. 2015 5835-5852*
- Extraction of Structural and Dynamic Properties of Forests From Polarimetric-Interferometric SAR Data Affected by Temporal Decorrelation. *Lavalle, M.*, +, *TGRS Sept. 2015 4752-4767*
- Fast Statistically Homogeneous Pixel Selection for Covariance Matrix Estimation for Multitemporal InSAR. *Jiang, M.*, +, *TGRS March 2015 1213-1224*
- Flooding Water Depth Estimation With High-Resolution SAR. *Iervolino, P.*, +, *TGRS May 2015 2295-2307*
- Focused SAR Image Formation of Moving Targets Based on Doppler Parameter Estimation. *Noviello, C.*, +, *TGRS June 2015 3460-3470*
- Focused Synthetic Aperture Radar Processing of Ice-Sounding Data Collected Over the East Antarctic Ice Sheet via the Modified Range Migration Algorithm Using Curvelets. *Lang, S.*, +, *TGRS Aug. 2015 4496-4509*
- Forest Height Estimation by Means of Pol-InSAR Data Inversion: The Role of the Vertical Wavenumber. *Kugler, F.*, +, *TGRS Oct. 2015 5294-5311*
- Future Ocean Scatterometry: On the Use of Cross-Polar Scattering to Observe Very High Winds. *Fois, F.*, +, *TGRS Sept. 2015 5009-5020*
- Generalized Frequency Scaling and Backprojection for LFM-CW SAR Processing. *Zaugg, E.C.*, +, *TGRS July 2015 3600-3614*
- Geodetic Network Design for InSAR. *Mahapatra, P.S.*, +, *TGRS July 2015 3669-3680*
- Geometry-Information-Aided Efficient Radial Velocity Estimation for Moving Target Imaging and Location Based on Radon Transform. *Zhang, X.*, +, *TGRS Feb. 2015 1105-1117*
- Ground Moving Target Trajectory Reconstruction in Single-Channel Circular SAR. *Poisson, J.*, +, *TGRS April 2015 1976-1984*
- Hierarchical Conditional Random Fields Model for Semisupervised SAR Image Segmentation. *Zhang, P.*, +, *TGRS Sept. 2015 4933-4951*
- High-Resolution InSAR Building Layovers Detection and Exploitation. *Rossi, C.*, +, *TGRS Dec. 2015 6457-6468*
- Imaging of Oil-Well Perforations Using UWB Synthetic Aperture Radar. *Oloumi, D.*, +, *TGRS Aug. 2015 4510-4520*
- Implementation of the OFDM Chirp Waveform on MIMO SAR Systems. *Wang, J.*, +, *TGRS Sept. 2015 5218-5228*
- Improved EMCF-SBAS Processing Chain Based on Advanced Techniques for the Noise-Filtering and Selection of Small Baseline Multi-Look DInSAR Interferograms. *Pepe, A.*, +, *TGRS Aug. 2015 4394-4417*
- InSAR Assessment of Surface Deformations in Urban Coastal Terrains Associated With Groundwater Dynamics. *Normand, J.C.L.*, +, *TGRS Dec. 2015 6356-6371*
- InSAR Image Regularization and DEM Error Correction With Fractal Surface Scattering Model. *Danudirdjo, D.*, +, *TGRS March 2015 1427-1439*
- Interferometric Phase Image Estimation via Sparse Coding in the Complex Domain. *Hongxing, H.*, +, *TGRS May 2015 2587-2602*
- Interval Edge Estimation in SAR Images. *Dias, L.*, +, *TGRS Feb. 2015 851-861*
- Invariant Rules for Multipolarization SAR Change Detection. *Carotenuto, V.*, +, *TGRS June 2015 3294-3311*
- ISAR Imaging of Nonuniformly Rotating Target Based on a Fast Parameter Estimation Algorithm of Cubic Phase Signal. *Zheng, J.*, +, *TGRS Sept. 2015 4727-4740*
- Microwave Backscatter From Arctic Lake Ice and Polarimetric Implications. *Atwood, D.K.*, +, *TGRS Nov. 2015 5972-5982*
- MIMO SAR OFDM Chirp Waveform Diversity Design With Random Matrix Modulation. *Wang, W.*, *TGRS March 2015 1615-1625*
- Moving Target Tracking in Single- and Multichannel SAR. *Henke, D.*, +, *TGRS June 2015 3146-3159*
- Multiangle BSAR Imaging Based on BeiDou-2 Navigation Satellite System: Experiments and Preliminary Results. *Zeng, T.*, +, *TGRS Oct. 2015 5760-5773*
- Multichannel Phase Unwrapping: Problem Topology and Dual-Level Parallel Computational Model. *Imperatore, P.*, +, *TGRS Oct. 2015 5774-5793*
- Multitemporal Fluctuations in L-Band Backscatter From a Japanese Forest. *Watanabe, M.*, +, *TGRS Nov. 2015 5799-5813*
- NL-SAR: A Unified Nonlocal Framework for Resolution-Preserving (Pol)(In)SAR Denoising. *Deledalle, C.*, +, *TGRS April 2015 2021-2038*
- OFDM Synthetic Aperture Radar Imaging With Sufficient Cyclic Prefix. *Zhang, T.*, +, *TGRS Jan. 2015 394-404*
- On Detectability of a Ship's Kelvin Wake in Simulated SAR Images of Rough Sea Surface. *Zilman, G.*, +, *TGRS Feb. 2015 609-619*
- Optimization of the Degree of Polarization for Enhanced Ship Detection Using Polarimetric RADARSAT-2. *Touzi, R.*, +, *TGRS Oct. 2015 5403-5424*
- Paddy-Rice Monitoring Using TanDEM-X. *Rossi, C.*, +, *TGRS Feb. 2015 900-910*
- Parallel Branch-Cut Algorithm Based on Simulated Annealing for Large-Scale Phase Unwrapping. *Huang, Q.*, +, *TGRS July 2015 3833-3846*
- Performance Evaluation of a GLRT Moving Target Detector for TerraSAR-X Along-Track Interferometric Data. *Budillon, A.*, +, *TGRS June 2015 3350-3360*
- Phase Inconsistencies and Multiple Scattering in SAR Interferometry. *De Zan, F.*, +, *TGRS Dec. 2015 6608-6616*
- Phase Offset Calculation for Airborne InSAR DEM Generation Without Corner Reflectors. *Perna, S.*, +, *TGRS May 2015 2713-2726*
- Polarimetric Incoherent Target Decomposition by Means of Independent Component Analysis. *Besic, N.*, +, *TGRS March 2015 1236-1247*
- Polarimetric SAR Speckle Filtering and the Extended Sigma Filter. *Lee, J.*, +, *TGRS March 2015 1150-1160*
- PolInSAR Coherence Region Modeling and Inversion: The Best Normal Matrix Approximation Solution. *Cui, Y.*, +, *TGRS Feb. 2015 1048-1060*
- Precise Focusing of Airborne SAR Data With Wide Apertures Large Trajectory Deviations: A Chirp Modulated Back-Projection Approach. *Meng, D.*, +, *TGRS May 2015 2510-2519*
- Precise Three-Dimensional Stereo Localization of Corner Reflectors and Persistent Scatterers With TerraSAR-X. *Gisinger, C.*, +, *TGRS April 2015 1782-1802*
- Processing of Monostatic SAR Data With General Configurations. *Tang, S.*, +, *TGRS Dec. 2015 6529-6546*
- Quantization Effects in TanDEM-X Data. *Martone, M.*, +, *TGRS Feb. 2015 583-597*
- Reconstruction of Coherent Pairs of Synthetic Aperture Radar Data Acquired in Interrupted Mode. *Pinheiro, M.*, +, *TGRS April 2015 1876-1893*
- Representation and Spatially Adaptive Segmentation for PolSAR Images Based on Wedgelet Analysis. *Liu, B.*, +, *TGRS Sept. 2015 4797-4809*
- Robust Clutter Suppression and Moving Target Imaging Approach for Multichannel in Azimuth High-Resolution and Wide-Swath Synthetic Aperture Radar. *Zhang, S.*, +, *TGRS Feb. 2015 687-709*
- SAR Altimeter Backscattered Waveform Model. *Ray, C.*, +, *TGRS Feb. 2015 911-919*
- SAR Image Change Detection Based on Iterative Label-Information Composite Kernel Supervised by Anisotropic Texture. *Jia, L.*, +, *TGRS July 2015 3960-3973*
- SAR-SIFT: A SIFT-Like Algorithm for SAR Images. *Dellinger, F.*, +, *TGRS Jan. 2015 453-466*
- Scattering Centers Detection and Tracking in Refocused Spaceborne SAR Images for Infrastructure Monitoring. *Anghel, A.*, +, *TGRS Aug. 2015 4379-4393*
- Semiparametric Statistical Stripmap Synthetic Aperture Autofocusing. *Marston, T.M.*, +, *TGRS April 2015 2086-2095*
- Sensitivity of Pol-InSAR Measurements to Vegetation Parameters. *Oveisgharan, S.*, +, *TGRS Dec. 2015 6561-6572*
- Sentinel-1A: Analysis of FDBAQ Performance on Real Data. *Guccione, P.*, +, *TGRS Dec. 2015 6804-6812*

- Signature Morphology Effects of Squint Angle for Arbitrarily Moving Surface Targets in Spotlight Synthetic Aperture Radar. *Garren, D.A.*, *TGRS Nov. 2015 6241-6251*
- Simulation of ISAR Imaging for a Space Target and Reconstruction Under Sparse Sampling via Compressed Sensing. *Wang, F.*, +, *TGRS June 2015 3432-3441*
- Simulation of the SuperSAR Multi-Azimuth Synthetic Aperture Radar Imaging System for Precise Measurement of Three-Dimensional Earth Surface Displacement. *Jung, H.*, +, *TGRS Nov. 2015 6196-6206*
- Soil Moisture Estimation Under Tropical Forests Using UHF Radar Polarimetry. *Truong-Loi, M.*, +, *TGRS April 2015 1718-1727*
- Spaceborne MIMO Synthetic Aperture Radar for Multimodal Operation. *Kim, J.*, +, *TGRS May 2015 2453-2466*
- Sparse Regularization of Interferometric Phase and Amplitude for InSAR Image Formation Based on Bayesian Representation. *Xu, G.*, +, *TGRS April 2015 2123-2136*
- Spatial Decorrelation in GNSS-Based SAR Coherent Change Detection. *Zhang, Q.*, +, *TGRS Jan. 2015 219-228*
- Statistical Tests for a Ship Detector Based on the Polarimetric Notch Filter. *Marino, A.*, +, *TGRS Aug. 2015 4578-4595*
- Subaperture Approach Based on Azimuth-Dependent Range Cell Migration Correction and Azimuth Focusing Parameter Equalization for Maneuvering High-Squint-Mode SAR. *Zeng, T.*, +, *TGRS Dec. 2015 6718-6734*
- Synergistic Use of Satellite Observations and Numerical Weather Model to Study Atmospheric Occluded Fronts. *Li, X.*, +, *TGRS Sept. 2015 5269-5279*
- Temporal Decorrelation in L-, C-, and X-band Satellite Radar Interferometry for Pasture on Drained Peat Soils. *Morishita, Y.*, +, *TGRS Feb. 2015 1096-1104*
- Temporal Filtering of InSAR Data Using Statistical Parameters From NWP Models. *Gong, W.*, +, *TGRS July 2015 4033-4044*
- Temporal Stability of X-Band Single-Pass InSAR Heights in a Spruce Forest: Effects of Acquisition Properties and Season. *Solberg, S.*, +, *TGRS March 2015 1607-1614*
- Tensorial Independent Component Analysis-Based Feature Extraction for Polarimetric SAR Data Classification. *Tao, M.*, +, *TGRS May 2015 2481-2495*
- The Characteristics of the Multipath Scattering and the Application of Geometry Extraction in High-Resolution SAR Images. *Zhang, Y.*, +, *TGRS Aug. 2015 4687-4699*
- The Impact of System Effects on Estimates of Faraday Rotation From Synthetic Aperture Radar Measurements. *Quegan, S.*, +, *TGRS Aug. 2015 4284-4298*
- The Interaction Between Faraday Rotation and System Effects in Synthetic Aperture Radar Measurements of Backscatter and Biomass. *Quegan, S.*, +, *TGRS Aug. 2015 4299-4312*
- Theory of Two-Dimensional Signature Morphology for Arbitrarily Moving Surface Targets in Squinted Spotlight Synthetic Aperture Radar. *Garren, D.A.*, *TGRS Sept. 2015 4997-5008*
- Three-Dimensional Scattering Center Extraction Based on Wide Aperture Data at a Single Elevation. *Zhou, J.*, +, *TGRS March 2015 1638-1655*
- Topography Retrieval From Single-Pass POLSAR Data Based on the Polarization-Dependent Intensity Ratio. *Li, Y.*, +, *TGRS June 2015 3160-3177*
- Two-Stage Change Detection for Synthetic Aperture Radar. *Cha, M.*, +, *TGRS Dec. 2015 6547-6560*
- UAVSAR Polarimetric Calibration. *Fore, A.G.*, +, *TGRS June 2015 3481-3491*
- Ultrawideband Synthetic Aperture Radar for Respiratory Motion Detection. *Chen, T.*, +, *TGRS July 2015 3749-3763*
- Uncertainty Assessment of the Estimated Atmospheric Delay Obtained by a Numerical Weather Model (NMW). *Mateus, P.*, +, *TGRS Dec. 2015 6710-6717*
- Urban Land Use Information Extraction Using the Ultrahigh-Resolution Chinese Airborne SAR Imagery. *Wu, W.*, +, *TGRS Oct. 2015 5583-5599*
- X-Band Interferometric SAR Observations of Baltic Fast Ice. *Berg, A.*, +, *TGRS March 2015 1248-1256*
- Synthetic aperture sonar**
- Contributions to Automatic Target Recognition Systems for Underwater Mine Classification. *Fei, T.*, +, *TGRS Jan. 2015 505-518*
- Sand Ripple Characterization Using an Extended Synthetic Aperture Sonar Model and Parallel Sampling Method. *Chen, C.*, +, *TGRS Oct. 2015 5547-5559*
- Semiparametric Statistical Stripmap Synthetic Aperture Autofocusing. *Marston, T.M.*, +, *TGRS April 2015 2086-2095*
- T**
- Target tracking**
- Knowledge-Based Multitarget Ship Tracking for HF Surface Wave Radar Systems. *Vivone, G.*, +, *TGRS July 2015 3931-3949*
- Multiple Extended Target Tracking for Through-Wall Radars. *Gennarelli, G.*, +, *TGRS Dec. 2015 6482-6494*
- Radon-Linear Canonical Ambiguity Function-Based Detection and Estimation Method for Marine Target With Micromotion. *Chen, X.*, +, *TGRS April 2015 2225-2240*
- Three-Dimensional Scattering Center Extraction Based on Wide Aperture Data at a Single Elevation. *Zhou, J.*, +, *TGRS March 2015 1638-1655*
- Temperature distribution**
- Error Characterization of Coupled Land Surface-Radiative Transfer Models for Snow Microwave Radiance Assimilation. *Kwon, Y.*, +, *TGRS Sept. 2015 5247-5268*
- Temperature measurement**
- Atmospheric Effects Removal for the Infrared Image Sequences. *Ozsarac, S.*, +, *TGRS Sept. 2015 4899-4909*
- Design and Characterization of a Peltier-Cold Calibration Target for a 110-GHz Radiometer. *Fernandez, S.*, +, *TGRS Jan. 2015 344-351*
- Temperature sensors**
- Terra and Aqua MODIS Thermal Emissive Bands On-Orbit Calibration and Performance. *Xiong, X.*, +, *TGRS Oct. 2015 5709-5721*
- Tensors**
- Compressive Hyperspectral Imaging via Sparse Tensor and Nonlinear Compressed Sensing. *Yang, S.*, +, *TGRS Nov. 2015 5943-5957*
- Tensorial Independent Component Analysis-Based Feature Extraction for Polarimetric SAR Data Classification. *Tao, M.*, +, *TGRS May 2015 2481-2495*
- Terahertz wave detectors**
- Minimum-Entropy-Based Adaptive Focusing Algorithm for Image Reconstruction of Terahertz Single-Frequency Holography With Improved Depth of Focus. *Sun, Z.*, +, *TGRS Jan. 2015 519-526*
- Terahertz wave imaging**
- Minimum-Entropy-Based Adaptive Focusing Algorithm for Image Reconstruction of Terahertz Single-Frequency Holography With Improved Depth of Focus. *Sun, Z.*, +, *TGRS Jan. 2015 519-526*
- Terrain mapping**
- A Multivariate Empirical Mode Decomposition-Based Approach to Pan-sharpening. *Abdullah, S.M.U.*, +, *TGRS July 2015 3974-3984*
- A WTLS-Based Method for Remote Sensing Imagery Registration. *Wu, T.*, +, *TGRS Jan. 2015 102-116*
- Automated Generation of a Digital Elevation Model Over Steep Terrain in Antarctica From High-Resolution Satellite Imagery. *Lee, C.*, +, *TGRS March 2015 1186-1194*
- Doppler-Related Distortions in TOPS SAR Images. *Rodriguez-Cassola, M.*, +, *TGRS Jan. 2015 25-35*
- Estimating Forest Biomass From TerraSAR-X Stripmap Radargrammetry. *Solberg, S.*, +, *TGRS Jan. 2015 154-161*
- Extraction of Vehicle Groups in Airborne Lidar Point Clouds With Two-Level Point Processes. *Borcs, A.*, +, *TGRS March 2015 1475-1489*
- Fast Subpixel Mapping Algorithms for Subpixel Resolution Change Detection. *Wang, Q.*, +, *TGRS April 2015 1692-1706*
- Indicator Cokriging-Based Subpixel Mapping Without Prior Spatial Structure Information. *Wang, Q.*, +, *TGRS Jan. 2015 309-323*
- InSAR Assessment of Surface Deformations in Urban Coastal Terrains Associated With Groundwater Dynamics. *Normand, J.C.L.*, +, *TGRS Dec. 2015 6356-6371*
- Iterative Hyperspectral Image Classification Using Spectral-Spatial Relational Features. *Guccione, P.*, +, *TGRS July 2015 3615-3627*
- Normalization of TanDEM-X DSM Data in Urban Environments With Morphological Filters. *Geiss, C.*, +, *TGRS Aug. 2015 4348-4362*
- On the Feasibility of Characterizing Soil Properties From AVIRIS Data. *Dutta, D.*, +, *TGRS Sept. 2015 5133-5147*
- Paddy-Rice Monitoring Using TanDEM-X. *Rossi, C.*, +, *TGRS Feb. 2015 900-910*
- Retrieval of Atmospheric Aerosol and Surface Properties Over Land Using Satellite Observations. *Shi, G.*, +, *TGRS Feb. 2015 1039-1047*
- RPC Estimation via ℓ_1 -Norm-Regularized Least Squares (L1LS). *Long, T.*, +, *TGRS Aug. 2015 4554-4567*
- Spatiotemporal Data Fusion Using Temporal High-Pass Modulation and Edge Primitives. *Malleswara Rao, J.*, +, *TGRS Nov. 2015 5853-5860*

- Temporal Decorrelation in L-, C-, and X-band Satellite Radar Interferometry for Pasture on Drained Peat Soils. *Morishita, Y.*, +, *TGRS Feb. 2015 1096-1104*
- Temporal Stability of X-Band Single-Pass InSAR Heights in a Spruce Forest: Effects of Acquisition Properties and Season. *Solberg, S.*, +, *TGRS March 2015 1607-1614*
- Topography Retrieval From Single-Pass POLSAR Data Based on the Polarization-Dependent Intensity Ratio. *Li, Y.*, +, *TGRS June 2015 3160-3177*
- Terrestrial electricity**
- Wideband Frequency Domain Method of Soil Dielectric Property Measurements. *Bobrov, P.P.*, +, *TGRS May 2015 2366-2372*
- Thermometers**
- Design and Characterization of a Peltier-Cold Calibration Target for a 110-GHz Radiometer. *Fernandez, S.*, +, *TGRS Jan. 2015 344-351*
- Thunderstorms**
- Shrunk Locally Linear Embedding for Passive Microwave Retrieval of Precipitation. *Ebtehaj, A.M.*, +, *TGRS July 2015 3720-3736*
- Time series**
- A Bayesian Method for Upsizing Single Disdrometer Drop Size Counts for Rain Physics Studies and Areal Applications. *Jameson, A.R.*, *TGRS Jan. 2015 335-343*
- A Framework for Consistent Estimation of Leaf Area Index, Fraction of Absorbed Photosynthetically Active Radiation, and Surface Albedo from MODIS Time-Series Data. *Xiao, Z.*, +, *TGRS June 2015 3178-3197*
- Accurate Estimation of Atmospheric Water Vapor Using GNSS Observations and Surface Meteorological Data. *Alshawaf, F.*, +, *TGRS July 2015 3764-3771*
- An Adaptive Semisupervised Approach to the Detection of User-Defined Recurrent Changes in Image Time Series. *Zanotta, D.C.*, +, *TGRS July 2015 3707-3719*
- Correcting Incompatible DN Values and Geometric Errors in Nighttime Lights Time-Series Images. *Zhao, N.*, +, *TGRS April 2015 2039-2049*
- Deformation Parameter Estimation in Low Coherence Areas Using a Multisatellite InSAR Approach. *Morishita, Y.*, +, *TGRS Aug. 2015 4275-4283*
- Emulating Sentinel-1 Doppler Radial Ice Drift Measurements Using Envisat ASAR Data. *Kramer, T.*, +, *TGRS Dec. 2015 6407-6418*
- Improved EMCF-SBAS Processing Chain Based on Advanced Techniques for the Noise-Filtering and Selection of Small Baseline Multi-Look DInSAR Interferograms. *Pepe, A.*, +, *TGRS Aug. 2015 4394-4417*
- Multiple-Instance Hidden Markov Models With Applications to Landmine Detection. *Yukse, S.E.*, +, *TGRS Dec. 2015 6766-6775*
- Retrieval of Tephra Size Spectra and Mass Flow Rate From C-Band Radar During the 2010 Eyjafjallajökull Eruption, Iceland. *Mereu, L.*, +, *TGRS Oct. 2015 5644-5660*
- Time-frequency analysis**
- Implementation of the OFDM Chirp Waveform on MIMO SAR Systems. *Wang, J.*, +, *TGRS Sept. 2015 5218-5228*
- Including Antenna Mispointing in a Semi-Analytical Model for Delay/Doppler Altimetry. *Halimi, A.*, +, *TGRS Feb. 2015 598-608*
- Time-of-arrival estimation**
- HY-2A Radar Altimeter Ultrastable Oscillator Drift Estimation Using Reconstructive Transponder With Its Validation By Multimission Cross Calibration. *Wan, J.*, +, *TGRS Sept. 2015 5229-5236*
- Tomography**
- CAESAR: An Approach Based on Covariance Matrix Decomposition to Improve Multibaseline-Multitemporal Interferometric SAR Processing. *Fornaro, G.*, +, *TGRS April 2015 2050-2065*
- Capabilities of BIOMASS Tomography for Investigating Tropical Forests. *Ho Tong Minh, D.*, +, *TGRS Feb. 2015 965-975*
- Robust Reconstruction of Building Facades for Large Areas Using Spaceborne TomoSAR Point Clouds. *Shahzad, M.*, +, *TGRS Feb. 2015 752-769*
- Topography (Earth)**
- Fine-Resolution Radar Altimeter Measurements on Land and Sea Ice. *Patel, A.*, +, *TGRS May 2015 2547-2564*
- Topology**
- Analysis of Oblique Aerial Images for Land Cover and Point Cloud Classification in an Urban Environment. *Rau, J.*, +, *TGRS March 2015 1304-1319*
- Total electron content (atmosphere)**
- Combination of Ground- and Space-Based Data to Establish a Global Ionospheric Grid Model. *Chen, P.*, +, *TGRS Feb. 2015 1073-1081*
- The Impact of System Effects on Estimates of Faraday Rotation From Synthetic Aperture Radar Measurements. *Quegan, S.*, +, *TGRS Aug. 2015 4284-4298*
- Town and country planning**
- Spatiotemporal Detection and Analysis of Urban Villages in Mega City Regions of China Using High-Resolution Remotely Sensed Imagery. *Huang, X.*, +, *TGRS July 2015 3639-3657*
- Transceivers**
- Efficient Near-Field Imaging for Single-Borehole Radar With Widely Separated Transceivers. *Yang, H.*, +, *TGRS Oct. 2015 5327-5337*
- Measuring the Variance of the Vertical Orbital Velocity Component by an Acoustic Wave Gauge With a Single Transceiver Antenna. *Titchenko, Y.A.*, +, *TGRS Aug. 2015 4340-4347*
- Transfer functions**
- Pansharping Based on Semiblind Deconvolution. *Vivone, G.*, +, *TGRS April 2015 1997-2010*
- Transforms**
- SAR-SIFT: A SIFT-Like Algorithm for SAR Images. *Dellinger, F.*, +, *TGRS Jan. 2015 453-466*
- Transient response**
- Including Antenna Mispointing in a Semi-Analytical Model for Delay/Doppler Altimetry. *Halimi, A.*, +, *TGRS Feb. 2015 598-608*
- Transmitters**
- Detection and Quantification of Three-Dimensional Hydraulic Fractures With Horizontal Borehole Resistivity Measurements. *Yang, K.*, +, *TGRS Aug. 2015 4605-4615*
- Transponders**
- HY-2A Radar Altimeter Ultrastable Oscillator Drift Estimation Using Reconstructive Transponder With Its Validation By Multimission Cross Calibration. *Wan, J.*, +, *TGRS Sept. 2015 5229-5236*
- Trees (mathematics)**
- Parallel Branch-Cut Algorithm Based on Simulated Annealing for Large-Scale Phase Unwrapping. *Huang, Q.*, +, *TGRS July 2015 3833-3846*
- Spectral-Spatial Classification for Hyperspectral Data Using Rotation Forests With Local Feature Extraction and Markov Random Fields. *Xia, J.*, +, *TGRS May 2015 2532-2546*
- Troposphere**
- An Imaging Compensation Algorithm for Correcting the Impact of Tropospheric Delay on Spaceborne High-Resolution SAR. *Yu, Z.*, +, *TGRS Sept. 2015 4825-4836*
- Atmospheric Boundary Layer Height Estimation Using a Kalman Filter and a Frequency-Modulated Continuous-Wave Radar. *Lange, D.*, +, *TGRS June 2015 3338-3349*
- Characteristics of the Trends in the Global Tropopause Estimated From COSMIC Radio Occultation Data. *Gao, P.*, +, *TGRS Dec. 2015 6813-6822*
- Intercalibration and Validation of Observations From ATMS and SAPHIR Microwave Sounders. *Moradi, I.*, +, *TGRS Nov. 2015 5915-5925*
- Retrieving Layer-Averaged Tropospheric Humidity From Advanced Technology Microwave Sounder Water Vapor Channels. *Moradi, I.*, +, *TGRS Dec. 2015 6675-6688*
- Tsunami**
- Tsunami-Wave Parameter Estimation Using GNSS-Based Sea Surface Height Measurement. *Yu, K.*, *TGRS May 2015 2603-2611*
- Turbulence**
- On Detectability of a Ship's Kelvin Wake in Simulated SAR Images of Rough Sea Surface. *Zilman, G.*, +, *TGRS Feb. 2015 609-619*

U

Ultra wideband radar

- Imaging of Oil-Well Perforations Using UWB Synthetic Aperture Radar. *Oloumi, D.*, +, *TGRS Aug. 2015 4510-4520*
- RFI Suppression Based on Phase-Coded Stepped-Frequency Waveform in Through-Wall Radar. *Li, T.*, +, *TGRS March 2015 1583-1591*
- Texture-Based Automatic Separation of Echoes from Distributed Moving Targets in UWB Radar Signals. *Sakamoto, T.*, +, *TGRS Jan. 2015 352-361*
- Ultrawideband Synthetic Aperture Radar for Respiratory Motion Detection. *Chen, T.*, +, *TGRS July 2015 3749-3763*

Uncertainty handling

- Contributions to Automatic Target Recognition Systems for Underwater Mine Classification. *Fei, T.*, +, *TGRS Jan. 2015 505-518*

Underwater acoustic propagation

- Measuring the Variance of the Vertical Orbital Velocity Component by an Acoustic Wave Gauge With a Single Transceiver Antenna. *Titchenko, Y.A.*, +, *TGRS Aug. 2015 4340-4347*

Underwater optics

- Automated Underwater Object Recognition by Means of Fluorescence LIDAR. *Matteoli, S.*, +, *TGRS Jan. 2015 375-393*
- Correction of Stray-Light-Driven Interslot Radiometric Discrepancy (ISR) Present in Radiometric Products of Geostationary Ocean Color Imager (GOCI). *Kim, W.*, +, *TGRS Oct. 2015 5458-5472*

Unsupervised learning

- Hierarchical Unsupervised Change Detection in Multitemporal Hyperspectral Images. *Liu, S.*, +, *TGRS Jan. 2015 244-260*

V**Vectors**

- Compressive Hyperspectral Imaging via Sparse Tensor and Nonlinear Compressed Sensing. *Yang, S.*, +, *TGRS Nov. 2015 5943-5957*
- Interferometric Phase Image Estimation via Sparse Coding in the Complex Domain. *Hongxing, H.*, +, *TGRS May 2015 2587-2602*
- Spectral Image Unmixing From Optimal Coded-Aperture Compressive Measurements. *Ramirez, A.*, +, *TGRS Jan. 2015 405-415*
- Temporal Orthogonal Projection Inversion for EMI Sensing of UXO. *Song, L.*, +, *TGRS Feb. 2015 1061-1072*

Vegetation

- In Situ* Calibration of Light Sensors for Long-Term Monitoring of Vegetation. *Jin, H.*, +, *TGRS June 2015 3405-3416*
- A Bayesian Network-Based Method to Alleviate the Ill-Posed Inverse Problem: A Case Study on Leaf Area Index and Canopy Water Content Retrieval. *Quan, X.*, +, *TGRS Dec. 2015 6507-6517*
- A Combined Active-Passive Soil Moisture Estimation Algorithm With Adaptive Regularization in Support of SMAP. *Akbar, R.*, +, *TGRS June 2015 3312-3324*
- A Modified Water-Cloud Model With Leaf Angle Parameters for Microwave Backscattering From Agricultural Fields. *Kweon, S.*, +, *TGRS May 2015 2802-2809*
- A Moving Weighted Harmonic Analysis Method for Reconstructing High-Quality SPOT VEGETATION NDVI Time-Series Data. *Yang, G.*, +, *TGRS Nov. 2015 6008-6021*
- A Multiscale and Hierarchical Feature Extraction Method for Terrestrial Laser Scanning Point Cloud Classification. *Wang, Z.*, +, *TGRS May 2015 2409-2425*
- A Semi-Empirical Model for Computing Land Surface Emissivity in the Microwave Region. *Ringerud, S.*, +, *TGRS April 2015 1935-1946*
- A Semiautomated Probabilistic Framework for Tree-Cover Delineation From 1-m NAIP Imagery Using a High-Performance Computing Architecture. *Basu, S.*, +, *TGRS Oct. 2015 5690-5708*
- Canopy Density Model: A New ALS-Derived Product to Generate Multi-layer Crown Cover Maps. *Ferraz, A.*, +, *TGRS Dec. 2015 6776-6790*
- Capabilities of BIOMASS Tomography for Investigating Tropical Forests. *Ho Tong Minh, D.*, +, *TGRS Feb. 2015 965-975*
- Estimating Effective Roughness Parameters of the L-MEB Model for Soil Moisture Retrieval Using Passive Microwave Observations From SMAPVEX12. *Martens, B.*, +, *TGRS July 2015 4091-4103*
- Estimating Forest Biomass From TerraSAR-X Stripmap Radargrammetry. *Solberg, S.*, +, *TGRS Jan. 2015 154-161*
- Estimation of Forest Biomass From Two-Level Model Inversion of Single-Pass InSAR Data. *Soja, M.J.*, +, *TGRS Sept. 2015 5083-5099*
- Forest Data Collection Using Terrestrial Image-Based Point Clouds From a Handheld Camera Compared to Terrestrial and Personal Laser Scanning. *Liang, X.*, +, *TGRS Sept. 2015 5117-5132*
- Forest Height Estimation by Means of Pol-InSAR Data Inversion: The Role of the Vertical Wavenumber. *Kugler, F.*, +, *TGRS Oct. 2015 5294-5311*
- Global Land Surface Backscatter at Ku-Band Using Merged Jason1, Envisat, and Jason2 Data Sets. *Yang, L.*, +, *TGRS Feb. 2015 784-794*
- Global Land Surface Fractional Vegetation Cover Estimation Using General Regression Neural Networks From MODIS Surface Reflectance. *Jia, K.*, +, *TGRS Sept. 2015 4787-4796*
- Impact of Diurnal Variation in Vegetation Water Content on Radar Backscatter From Maize During Water Stress. *van Emmerik, T.*, +, *TGRS July 2015 3855-3869*
- Linear Models for Airborne-Laser-Scanning-Based Operational Forest Inventory With Small Field Sample Size and Highly Correlated LiDAR Data. *Junttila, V.*, +, *TGRS Oct. 2015 5600-5612*

- Measurement and Correction of Atmospheric Effects at Different Altitudes for Remote Sensing of Sun-Induced Fluorescence in Oxygen Absorption Bands. *Daumard, F.*, +, *TGRS Sept. 2015 5180-5196*
- Modeling of the Permittivity of Holly Leaves in Frozen Environments. *Kou, X.*, +, *TGRS Nov. 2015 6048-6057*
- Multitemporal Fluctuations in L-Band Backscatter From a Japanese Forest. *Watanabe, M.*, +, *TGRS Nov. 2015 5799-5813*
- Non-Invasive Forest Litter Characterization Using Full-Wave Inversion of Microwave Radar Data. *Andre, F.*, +, *TGRS Feb. 2015 828-840*
- P-Band Radar Retrieval of Subsurface Soil Moisture Profile as a Second-Order Polynomial: First AirMOSS Results. *Tabatabaenejad, A.*, +, *TGRS Feb. 2015 645-658*
- Reliable Technology of Centimeter GPS/GLONASS Surveying in Forest Environments. *Bakula, M.*, +, *TGRS Feb. 2015 1029-1038*
- S2eteS: An End-to-End Modeling Tool for the Simulation of Sentinel-2 Image Products. *Segl, K.*, +, *TGRS Oct. 2015 5560-5571*
- Sensitivity of Aquarius Active and Passive Measurements Temporal Covariability to Land Surface Characteristics. *Piles, M.*, +, *TGRS Aug. 2015 4700-4711*
- Sensitivity of Pol-InSAR Measurements to Vegetation Parameters. *Oveisharan, S.*, +, *TGRS Dec. 2015 6561-6572*
- Soil Moisture Retrieval Using L-Band Radar Observations. *Narvekar, P.S.*, +, *TGRS June 2015 3492-3506*
- Temporal Decorrelation in L-, C-, and X-band Satellite Radar Interferometry for Pasture on Drained Peat Soils. *Morishita, Y.*, +, *TGRS Feb. 2015 1096-1104*
- The Effect of Boreal Forest Canopy in Satellite Snow Mapping—A Multi-sensor Analysis. *Cohen, J.*, +, *TGRS Dec. 2015 6593-6607*

Vegetation mapping

- In Situ* Calibration of Light Sensors for Long-Term Monitoring of Vegetation. *Jin, H.*, +, *TGRS June 2015 3405-3416*
- A Dense Medium Microwave Backscattering Model for the Remote Sensing of Oil Palm. *Teng, K.C.*, +, *TGRS June 2015 3250-3259*
- A Framework for Consistent Estimation of Leaf Area Index, Fraction of Absorbed Photosynthetically Active Radiation, and Surface Albedo from MODIS Time-Series Data. *Xiao, Z.*, +, *TGRS June 2015 3178-3197*
- A Moving Weighted Harmonic Analysis Method for Reconstructing High-Quality SPOT VEGETATION NDVI Time-Series Data. *Yang, G.*, +, *TGRS Nov. 2015 6008-6021*
- A Three-Dimensional Model-Based Approach to the Estimation of the Tree Top Height by Fusing Low-Density LiDAR Data and Very High Resolution Optical Images. *Paris, C.*, +, *TGRS Jan. 2015 467-480*
- Assessment of Multiple Scattering in the Reflectance of Semiarid Shrublands. *Wang, J.*, +, *TGRS Sept. 2015 4910-4921*
- Canopy Density Model: A New ALS-Derived Product to Generate Multi-layer Crown Cover Maps. *Ferraz, A.*, +, *TGRS Dec. 2015 6776-6790*
- Downscaling Satellite-Based Soil Moisture in Heterogeneous Regions Using High-Resolution Remote Sensing Products and Information Theory: A Synthetic Study. *Chakrabarti, S.*, +, *TGRS Jan. 2015 85-101*
- Dynamical Approach for Real-Time Monitoring of Agricultural Crops. *Vicente-Guijalba, F.*, +, *TGRS June 2015 3278-3293*
- Estimating Forest Biomass From TerraSAR-X Stripmap Radargrammetry. *Solberg, S.*, +, *TGRS Jan. 2015 154-161*
- Extraction of Structural and Dynamic Properties of Forests From Polarimetric-Interferometric SAR Data Affected by Temporal Decorrelation. *Lavalle, M.*, +, *TGRS Sept. 2015 4752-4767*
- Extraction of Vehicle Groups in Airborne Lidar Point Clouds With Two-Level Point Processes. *Borcs, A.*, +, *TGRS March 2015 1475-1489*
- Linear Models for Airborne-Laser-Scanning-Based Operational Forest Inventory With Small Field Sample Size and Highly Correlated LiDAR Data. *Junttila, V.*, +, *TGRS Oct. 2015 5600-5612*
- Missing Data and Regression Models for Spatial Images. *Zhang, J.*, +, *TGRS March 2015 1574-1582*
- Multiangle Backscattering Observations of Continental Surfaces in Ku-Band (13 GHz) From Satellites: Understanding the Signals, Particularly in Arid Regions. *Prigent, C.*, +, *TGRS March 2015 1364-1373*
- Multitemporal Fluctuations in L-Band Backscatter From a Japanese Forest. *Watanabe, M.*, +, *TGRS Nov. 2015 5799-5813*
- Nonparametric Image Registration of Airborne LiDAR, Hyperspectral and Photographic Imagery of Wooded Landscapes. *Lee, J.*, +, *TGRS Nov. 2015 6073-6084*
- Sensitivity of Aquarius Active and Passive Measurements Temporal Covariability to Land Surface Characteristics. *Piles, M.*, +, *TGRS Aug. 2015 4700-4711*

Temporal Decorrelation in L-, C-, and X-band Satellite Radar Interferometry for Pasture on Drained Peat Soils. *Morishita, Y.*, +, *TGRS Feb. 2015 1096-1104*

Temporal Stability of X-Band Single-Pass InSAR Heights in a Spruce Forest: Effects of Acquisition Properties and Season. *Solberg, S.*, +, *TGRS March 2015 1607-1614*

Vegetation Sensing Using GPS-Interferometric Reflectometry: Theoretical Effects of Canopy Parameters on Signal-to-Noise Ratio Data. *Chew, C.C.*, +, *TGRS May 2015 2755-2764*

Vehicles

Extraction of Vehicle Groups in Airborne Lidar Point Clouds With Two-Level Point Processes. *Borcs, A.*, +, *TGRS March 2015 1475-1489*

Velocity measurement

A Wavelet-Packet-Based Radar Waveform for High Resolution in Range and Velocity Detection. *Cao, S.*, +, *TGRS Jan. 2015 229-243*

Impact of Receiver Saturation on Surface Doppler Velocity Measurements From the EarthCARE Cloud Profiling Radar. *Battaglia, A.*, +, *TGRS March 2015 1205-1212*

VHF antennas

Coaxial-Fed Circular Dipole Array Antenna With Ferrite Loading for Thin Directional Borehole Radar Sonde. *Ebihara, S.*, +, *TGRS April 2015 1842-1854*

KAIRA: The Kilpisjärvi Atmospheric Imaging Receiver Array—System Overview and First Results. *McKay-Bukowski, D.*, +, *TGRS March 2015 1440-1451*

Video signal processing

Aerial Image Registration for Tracking. *Linger, M.E.*, +, *TGRS April 2015 2137-2145*

Visible spectra

CLARREO Reflected Solar Spectrometer: Restrictions for Instrument Sensitivity to Polarization. *Lukashin, C.*, +, *TGRS Dec. 2015 6703-6709*

The Radiometric Stability and Scaling of Collection 6 Terra- and Aqua-MODIS VIS, NIR, and SWIR Spectral Bands. *Doelling, D.R.*, +, *TGRS Aug. 2015 4520-4535*

Volcanology

Retrieval of Tephra Size Spectra and Mass Flow Rate From C-Band Radar During the 2010 Eyjafjallajökull Eruption, Iceland. *Mereu, L.*, +, *TGRS Oct. 2015 5644-5660*

Vortices

Simulation of Airborne Radiometric Detection of Wake Vortices. *Daniels, T.*, +, *TGRS Dec. 2015 6336-6343*

W

Wakes

On Detectability of a Ship's Kelvin Wake in Simulated SAR Images of Rough Sea Surface. *Zilman, G.*, +, *TGRS Feb. 2015 609-619*

Simulation of Airborne Radiometric Detection of Wake Vortices. *Daniels, T.*, +, *TGRS Dec. 2015 6336-6343*

Water

Impact of Diurnal Variation in Vegetation Water Content on Radar Backscatter From Maize During Water Stress. *van Emmerik, T.*, +, *TGRS July 2015 3855-3869*

Water pollution measurement

Comparing Near-Coincident C- and X-Band SAR Acquisitions of Marine Oil Spills. *Skrumnes, S.*, +, *TGRS April 2015 1958-1975*

Water quality

A Wavelet-Enhanced Inversion Method for Water Quality Retrieval From High Spectral Resolution Data for Complex Waters. *Ampe, E.M.*, +, *TGRS Feb. 2015 869-882*

Water resources

Evaluation of Precipitation Retrievals From Orbital Data Products of TRMM Over a Subtropical Basin in India. *Indu, J.*, +, *TGRS Dec. 2015 6429-6442*

Water storage

RES Signatures of Ice Bottom Near to Dome C (Antarctica). *Urbini, S.*, +, *TGRS March 2015 1558-1564*

Waveform analysis

Implementation of the OFDM Chirp Waveform on MIMO SAR Systems. *Wang, J.*, +, *TGRS Sept. 2015 5218-5228*

Wavelet transforms

A Self-Adaptive Wavelet-Based Algorithm for Wave Measurement Using Nautical Radar. *An, J.*, +, *TGRS Jan. 2015 567-577*

A Wavelet-Packet-Based Radar Waveform for High Resolution in Range and Velocity Detection. *Cao, S.*, +, *TGRS Jan. 2015 229-243*

Band-Specific Shearlet-Based Hyperspectral Image Noise Reduction. *Karami, A.*, +, *TGRS Sept. 2015 5054-5066*

Compressed-Domain Ship Detection on Spaceborne Optical Image Using Deep Neural Network and Extreme Learning Machine. *Tang, J.*, +, *TGRS March 2015 1174-1185*

Hyperspectral Image Classification Based on Three-Dimensional Scattering Wavelet Transform. *Tang, Y.Y.*, +, *TGRS May 2015 2467-2480*

Model-Based Fusion of Multi- and Hyperspectral Images Using PCA and Wavelets. *Palsson, F.*, +, *TGRS May 2015 2652-2663*

Spectral Image Unmixing From Optimal Coded-Aperture Compressive Measurements. *Ramirez, A.*, +, *TGRS Jan. 2015 405-415*

Spectral-Spatial Classification of Hyperspectral Data via Morphological Component Analysis-Based Image Separation. *Xue, Z.*, +, *TGRS Jan. 2015 70-84*

Spectral-Spatial Classification of Hyperspectral Images via Spatial Translation-Invariant Wavelet-Based Sparse Representation. *He, L.*, +, *TGRS May 2015 2696-2712*

Weather forecasting

A Method to Increase the Scanning Rate of Phased-Array Weather Radar. *Melnikov, V.M.*, +, *TGRS Oct. 2015 5634-5643*

A New Satellite-Based Indicator for Estimation of the Western North Pacific Tropical Cyclone Current Intensity. *Zhuge, X.*, +, *TGRS Oct. 2015 5661-5676*

Analysis of Interactions Among Two Tropical Depressions and Typhoons Tembin and Bolaven (2012) in Pacific Ocean by Using Satellite Cloud Images. *Liu, J.*, +, *TGRS March 2015 1394-1402*

Asymmetric Features of Oceanic Microwave Brightness Temperature in HighSurface Wind Speed Condition. *Kazumori, M.*, +, *TGRS Nov. 2015 5901-5914*

Calibration and Evaluation of Precipitable Water Vapor From MODIS Infrared Observations at Night. *Chang, L.*, +, *TGRS May 2015 2612-2620*

Estimation of Daily Surface Shortwave Net Radiation From the Combined MODIS Data. *Wang, D.*, +, *TGRS Oct. 2015 5519-5529*

Multi-GNSS Meteorology: Real-Time Retrieving of Atmospheric Water Vapor From BeiDou, Galileo, GLONASS, and GPS Observations. *Li, X.*, +, *TGRS Dec. 2015 6385-6393*

Real-Time GPS Precise Point Positioning-Based Precipitable Water Vapor Estimation for Rainfall Monitoring and Forecasting. *Shi, J.*, +, *TGRS June 2015 3452-3459*

Sensitivity of PAZ LEO Polarimetric GNSS Radio-Occultation Experiment to Precipitation Events. *Cardellach, E.*, +, *TGRS Jan. 2015 190-206*

Temporal Filtering of InSAR Data Using Statistical Parameters From NWP Models. *Gong, W.*, +, *TGRS July 2015 4033-4044*

Uncertainty Assessment of the Estimated Atmospheric Delay Obtained by a Numerical Weather Model (NMW). *Mateus, P.*, +, *TGRS Dec. 2015 6710-6717*

Weather Radar Data Interpolation Using a Kernel-Based Lagrangian Nowcasting Technique. *Ruzanski, E.*, +, *TGRS June 2015 3073-3083*

Web services

Regular Shape Similarity Index: A Novel Index for Accurate Extraction of Regular Objects From Remote Sensing Images. *Sun, Z.*, +, *TGRS July 2015 3737-3748*

Wetlands

Paddy-Rice Monitoring Using TanDEM-X. *Rossi, C.*, +, *TGRS Feb. 2015 900-910*

Wind

A Backscattering Model of Rainfall Over Rough Sea Surface for Synthetic Aperture Radar. *Xu, F.*, +, *TGRS June 2015 3042-3054*

A Simplified Formulation for Rough Surface Cross-Polarized Backscattering Under the Second-Order Small-Slope Approximation. *Guerin, C.*, +, *TGRS Nov. 2015 6308-6314*

An Ocean Wind Doppler Model Based on the Generalized Curvature Ocean Surface Scattering Model. *Said, F.*, +, *TGRS Dec. 2015 6632-6638*

ASCAT Wind Quality Control Near Rain. *Lin, W.*, +, *TGRS Aug. 2015 4165-4177*

Asymmetric Features of Oceanic Microwave Brightness Temperature in HighSurface Wind Speed Condition. *Kazumori, M.*, +, *TGRS Nov. 2015 5901-5914*

Future Ocean Scatterometry: On the Use of Cross-Polar Scattering to Observe Very High Winds. *Fois, F.*, +, *TGRS Sept. 2015 5009-5020*

Retrieval of Tephra Size Spectra and Mass Flow Rate From C-Band Radar During the 2010 Eyjafjallajökull Eruption, Iceland. *Mereu, L.*, +, *TGRS Oct. 2015 5644-5660*

Synergistic Use of Satellite Observations and Numerical Weather Model to Study Atmospheric Occluded Fronts. *Li, X., +, TGRS Sept. 2015 5269-5279*
Tropical Cyclone Winds Retrieved From C-Band Cross-Polarized Synthetic Aperture Radar. *Horstmann, J., +, TGRS May 2015 2887-2898*

Wind speed

Correction to “Algorithm for Sea Surface Wind Retrieval From TerraSAR-X and TanDEM-X Data” [May 14 2928-2939]. *Li, X., +, TGRS Jan. 2015 578*

X**X-ray diffraction**

Gaussian Processes for Estimating Wavelength Position of the Ferric Iron Crystal Field Feature at ~900 nm From Hyperspectral Imagery Acquired in the Short-Wave Infrared (1002–1355 nm). *Murphy, R.J., +, TGRS April 2015 1907-1920*