

2015 Index

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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.

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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 Subpixel 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.,** Lemmettyinen, 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 Sunlight; *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*
- Dampert, 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*
- Dehmollaian, M.,** see Moghadasi, S.M., *TGRS July 2015 3897-3905*
- Del Moro, A.,** see Catapano, I., *TGRS Oct. 2015 5624-5633*
- Delbary, 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*
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- 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*
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- 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 Foufoula-Georgiou, E., Shrunken 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.**, Gerdig, 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*
- Enell, C.**, see McKay-Bukowski, D., *TGRS March 2015 1440-1451*
- Engen, G.**, see Said, F., *TGRS Dec. 2015 6632-6638*
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- 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* Juntila, 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 Muellerschoon, 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 Pauciullo, 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
- Forootan, 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* Marstetic, 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* Upala, 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
- Gerding, 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 Guarneri, 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
- Heggy, E.**, *see* Normand, J.C.L., *TGRS Dec. 2015* 6356-6371
- Heinilä, 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* Lavalle, 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* Danuridjo, D., *TGRS March 2015* 1427-1439
- Hirose, A.**, *see* Shang, F., *TGRS Aug. 2015* 4536-4547
- Hirose, A.**, *see* Danuridjo, 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*
- Hoogeboom, P.**, *see* Fois, 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*
- Hyypä, 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*
- Ilattia, T.**, *see* McKay-Bukowski, D., *TGRS March 2015 1440-1451*
- Ilisei, A.**, and Bruzzone, L., A System for the Automatic Classification of Ice Sheet Subsurface Targets in Radar Sounder Data; *TGRS June 2015 3260-3277*
- Imaoka, K.**, *see* Okuyama, A., *TGRS Aug. 2015 4568-4577*

+ Check author entry for coauthors

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*

Inglaña, J., *see* Lassalle, P., *TGRS Oct. 2015 5473-5485*

Ioana, C., *see* Angelil, 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*

Jaruwatanaadirok, 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 Intraglacier 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 Ziyuan-1-02C; *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.**, Weihermuller, 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* Upala, 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*
- Kallel, 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 HighSurface 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 (ISRD) 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 SurfaceTemperature 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., Albregtsen, 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., Possenti, 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* 1181-1194
- 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
- Lemmetynen, J.**, *see* Cohen, J., *TGRS Dec. 2015* 6593-6607
- Lenhard, K.**, Baumgartner, A., and Schwarzmairer, T., Independent Laboratory Characterization of NEO HySpex Imaging Spectrometers VNIR-1600 and SWIR-320m-e; *TGRS April 2015* 1828-1841
- 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 Stolk, 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., Hyppa, 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 Simple 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* 4832-4861
- 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* 4945-504
- 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-Guilalba, 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.**, Samie-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 Dadhwali, 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
- Mandie, 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
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- Marcellin, M.W.**, see Blanes, I., *TGRS June 2015* 3361-3372
- Marcello, J.**, see Eugenio, F., *TGRS July 2015* 3539-3549
- Marcoionni, 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-Guijralba, 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): Prelaunch 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*
- Mekhaldi, 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 Zrnic, 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*
- Moghadasi, 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 Tabatabaeenejad, 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 Guarneri, 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., Mekhaldi, 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
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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, S., *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
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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

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- Obradovic, Z.,** see Das, D., *TGRS Dec. 2015* 6689-6702
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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
Oldenburg, D.W., see Song, L., *TGRS Feb. 2015* 1061-1072

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- 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
Olkkinen, 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 Marsecic, 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
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Ounis, A., see Daumard, F., *TGRS Sept. 2015* 5180-5196
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Oveisgharan, S., Saatchi, S., and Hensley, S., Sensitivity of Pol-InSAR Measurements to Vegetation Parameters; *TGRS Dec. 2015* 6561-6572
Ozsarc, S., and Akar, G.B., Atmospheric Effects Removal for the Infrared Image Sequences; *TGRS Sept. 2015* 4899-4909

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- Pablos, M.,** see Piles, M., *TGRS Aug. 2015* 4700-4711
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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
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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
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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* Batani, 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
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- 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
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- 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
- Pullainen, J.**, *see* Cohen, J., *TGRS Dec. 2015* 6593-6607

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- Qian, J.**, *see* Ahmad, F., *TGRS March 2015* 1549-1557
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- 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
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- Quidu, I.**, *see* Karoui, I., *TGRS Nov. 2015* 6315

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- 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
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- 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., Gomenginger, 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
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- Reigber, A.**, *see* Deledalle, C., *TGRS April 2015* 2021-2038
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- Restaino, R.**, *see* Vivone, G., *TGRS May 2015* 2565-2586
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- 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*
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- 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*
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- 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.,** Gruber, 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 Gruber, 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 Super-cooled 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*
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- Roussi, C.,** see Atwood, D.K., *TGRS Nov. 2015 5972-5982*
- Rovira-Garcia, A.,** Juan, J.M., Sanz, J., and Gonzalez-Casado, G., A Worldwide 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*
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- 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*
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- Saatchi, S.,** see Truong-Loi, M., *TGRS April 2015 1718-1727*
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- 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*
- 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*
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- Scarino, B.R.,** see Doelling, D.R., *TGRS Aug. 2015 4520-4535*
- Scarpa, G.,** see Gaetano, R., *TGRS June 2015 2987-3004*
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- Schaepman, M.E.,** see Weyermann, J., *TGRS Nov. 2015 5814-5823*
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- Schindler, K.,** see Tokarczyk, P., *TGRS Jan. 2015 280-295*
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- Schistad Solberg, A.H.,** see Landmark, K., *TGRS Nov. 2015 6252-6273*
- Schlafper, D.,** Richter, R., and Feingersh, T., Operational BRDF Effects Correction for Wide-Field-of-View Optical Scanners (BREFCOR); *TGRS April 2015 1855-1864*
- Schlafper, 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*
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- Schwarting, T.,** see Odrarri, 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*
- Serafini, 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*

- 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-Sharpening; *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 IPB on Multiple Scenes; *TGRS Nov. 2015* 6148-6162
- Simila, M.**, *see* Makynen, M., *TGRS Sept. 2015* 5036-5053
- Simoes, M.**, *see* Vivone, G., *TGRS April 2015* 1997-2010
- Simoes, 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
- Sobrino, 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., Pasquin, 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 Garcon, 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 Seep 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
- Tabatabaeenejad, 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 Chatelat, 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

Verdolina, L., *see* Gaetano, R., *TGRS June 2015* 2987-3004

Vereecken, H., *see* Jonard, F., *TGRS June 2015* 3095-3109

Verhoeft, 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.I.**, 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 Matasci, G., *TGRS July 2015* 3550-3564
- von Lerber, A.**, Moisseev, 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 Ultrastable 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

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- 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 Aguilil, 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
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- 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
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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

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*

PollInSAR 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*

Elitist 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. *Okuyama, 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 Mis-pointing. *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
- Intercalibration 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. *Ebtahaj, 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 Mis-pointing. *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 Now-casting 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 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
- Classification of Alaska Spring Thaw Characteristics Using Satellite L-Band Radar Remote Sensing. *Du, J., +, TGRS Jan. 2015* 542-556
- Intercalibration 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 Intraglacier Average Temperature. *Jezek, 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 Reconstruction 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 Multi-scale 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 Aqua-MODIS 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. *Pagliaroni, 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 Multi-scale 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-Guajalba, 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. *Khlopakov, 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-Guajalba, 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). *Batene, 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. *Marsevic, 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. *Taherout, 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*

Ecology

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. *Danudirdjo, 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*

PollnSAR 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. *Jezek, 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. *Yuksel, 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*

Elicit 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 Tensor 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. *Oveisgharan, 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 Sunlight. *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). *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*

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. *Orfí, 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 Aquamodis 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. *Simoes, 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. *Marsetic, 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-Sharpening. *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. *Khlopakov, 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)(In)SAR 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* 3870-3884
- 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 the 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. *Danudirdjo, 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 Intraglacier 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*

Multiangle 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. *Pagliaroni, 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. *Orana, 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. *Tabatabaeenejad, 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). *Batemi, 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 IPB 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 Pan-sharpening. *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*

Multiangle 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. *Malleeswara 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**
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- 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. *Pagliaroni, D.W., +, TGRS May 2015 2426-2439*
- Elitist 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**
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- 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. *Vongsy, 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 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 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. *Khlopennov, 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*
- Multiangle 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 PoISAR 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, I., +, 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. *Xióng, 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. *Xióng, 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

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- 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

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- 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. *Ebtihaj, 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

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- 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

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

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- 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

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- 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-IR 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*

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Kalman filters

Dynamical Approach for Real-Time Monitoring of Agricultural Crops. *Vincente-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 Subsurface 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. *Yuksel, 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 Semophysical 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. *Orfilla, 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 \mathcal{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. *Orfilla, 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*

PollInSAR 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 Multitemissions. *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 Multitemissions. *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. *Marsevic, 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 Co-variability 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. *Rodriguez-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 Convolved 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*

Ocultations

- 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 Sunlight. *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. *Orfilla, 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. *Orfia, 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 Sunlight. *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. *Khlopov, 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*

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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-Guigelba, 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 Sunlight. *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-Guigelba, 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 Relational 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 Ultrastable 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. *Pagliaroni, 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. *Pagliaroni, 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*
- Radar 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 \mathcal{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*
- PollInSAR 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 \mathcal{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. *Basic, N., +, TGRS March 2015 1236-1247*
- Polarimetric SAR Speckle Filtering and the Extended Sigma Filter. *Lee, J., +, TGRS March 2015 1150-1160*
- PollInSAR Coherence Region Modeling and Inversion: The Best Normal Matrix Approximation Solution. *Cui, Y., +, TGRS Feb. 2015 1048-1060*
- Representation and Spatially Adaptive Segmentation for PoISAR Images Based on Wedgelet Analysis. *Liu, B., +, TGRS Sept. 2015 4797-4809*
- Sensitivity of Pol-InSAR Measurements to Vegetation Parameters. *Oveisgharan, 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. *Basic, 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-Lebelleur, 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 (ISRD) 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. *Jezek, 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*

- Shrunken 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. *Makinen, 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. *Ebtihaj, 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 Ziyuan1-02C. *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 Intercalibration 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 HighSurface 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. *Marsetic, 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). *Bateni, S.M., +, TGRS Jan. 2015* 173-189
- Characterizing the Aerosol and Surface Reflectance Over Australia Using ATSR. *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 (ISRD) 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-Sharpening. *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-IR 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. *Khlopakov, 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 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*
- 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. *Makinen, 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*
- 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*
- 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. *Viente-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. *Danudirdjo, 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*
- Multiantenna BSAR Imaging Based on BeiDou-2 Navigation Satellite System: Experiments and Preliminary Results. *Zeng, T., +, TGRS Oct. 2015 5760-5773*
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- 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*
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Rocks

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Rotational-vibrational energy transfer

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Salinity (geophysical)

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Sea ice

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Comparison of SSM/I and AMSR-E Sea Ice Concentrations With ASPeCt Ship Observations Around Antarctica. *Beitsch, A., +, TGRS April 2015 1985-1996*

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Sea level

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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*

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

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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

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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

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- Non-Invasive Forest Litter Characterization Using Full-Wave Inversion of Microwave Radar Data. *Andre, F., +, TGRS Feb. 2015 828-840*
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- 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*
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- 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. *Pagliaroni, 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*
- Multiantenna 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. *Deladelle, 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. *Basic, N., +, TGRS March 2015 1236-1247*
- Polarimetric SAR Speckle Filtering and the Extended Sigma Filter. *Lee, J., +, TGRS March 2015 1150-1160*
- PollInSAR 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 for 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 (NW).** *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*

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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

Shrunken Locally Linear Embedding for Passive Microwave Retrieval of Precipitation. *Ebtihaj, 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. *Yuksel, 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*

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HY-2A Radar Altimeter Ultrastable Oscillator Drift Estimation Using Reconstruction 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*

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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

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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*

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

Trees (mathematics)

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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*

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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 (ISRD) Present in Radiometric Products of Geostationary Ocean Color Imager (GOCI). *Kim, W., +, TGRS Oct. 2015 5458-5472*

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

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- 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 5117-5122*
 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. *Junntila, 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. *Tabatabaeenejad, 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. *Oveisgharan, 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-Guijala, 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. *Junntila, 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. *Skrunes, 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*