

# 2005 Index

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This index covers all technical items — papers, correspondence, reviews, etc. — that appeared in this periodical during 2005, and items from previous years that were commented upon or corrected in 2005. 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. Subject cross-references are included to assist in finding items of interest. Note that the item title is found only under the primary entry in the Author Index.

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- terra MODIS on-orbit spatial charactn. and perform. *Xiaoxiong Xiong*, +, *T-GRS Feb 05* 355-365
- validation of ASTER/TIR standard atmospheric correction using water surfaces. *Tonooka, H.*, +, *T-GRS Dec 05* 2769-2777
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- Chemical variables measurement; cf.** Moisture measurement

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**Eddy currents**

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**Eigenvalues and eigenfunctions**

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**Elastic waves; cf.** Seismic waves**Electric control equipment; cf.** Electric sensing devices**Electric current; cf.** Eddy currents**Electric sensing devices**

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 24-GHz automotive radars, pass. microwave Earth rem. sens. satellites, interf. *Gasiewski, A.J.*, +, *T-GRS Jul 05 1692-1693*

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**Frequency division multiplexing; cf.** OFDM modulation**Frequency-domain analysis; cf.** Time-frequency analysis**Frequency modulation; cf.** Frequency shift keying**Frequency shift keying**

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**Fuels**

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**Fuzzy sets**

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**Gamma distributions**

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- polarimetric synthetic aperture Radar images, fuzzy clustering and EM clustering, unsupervised class. *Kersten, P.R.*, +, *T-GRS Mar 05* 519-527
- random forest framework for class. of hyperspectral data. *Ham, J.*, +, *T-GRS Mar 05* 492-501
- rem. sens. class., stat. self-organizing learning syst. *Hoi-Ming Chi*, +, *T-GRS Aug 05* 1890-1900
- rem. sens. image archives, syst. eval., inform. mining. *Daschiel, H.*, +, *T-GRS Jan 05* 188-199
- rem. sens. images, SVM-based probab. dens. estim., partially Supervised class. *Mantero, P.*, +, *T-GRS Mar 05* 559-570
- SAR imagery, efficient texture anal. *Kandaswamy, U.*, +, *T-GRS Sep 05* 2075-2083
- SAR imagery, inform.-theoretic heterog. meas. *Aiazzi, B.*, +, *T-GRS Mar 05* 619-624
- scene class., visual grammar, learning bayesian classifiers. *Aksoy, S.*, +, *T-GRS Mar 05* 581-589
- spatial and spectral inform. by of unsupervised extr. and class. for homogenous objs. applied, multispectral and hyperspectral data, integrat. *Jimenez, L.O.*, +, *T-GRS Apr 05* 844-851
- study of fifteen yrs. of satellite image class. expts., results and implications. *Wilkinson, G.G.*, *T-GRS Mar 05* 433-440
- superv. image classification by contextual AdaBoost based on posteriors in neighborhoods. *Nishii, R.*, +, *T-GRS Nov 05* 2547-2554
- SVM for EM subsurface sens., class. approach. *Massa, A.*, +, *T-GRS Sep 05* 2084-2093
- symm. props. of geophys. media, compact polarimetry. *Souyris, J.-C.*, +, *T-GRS Mar 05* 634-646
- vegetation stress detect., generic wavelet-based hyperspectral class. applied. *Kempeneers, P.*, +, *T-GRS Mar 05* 610-614
- wavelet domain stat. hyperspectral soil texture class. *Xudong Zhang*, +, *T-GRS Mar 05* 615-618
- Image coding**  
digital elevation maps for fast and efficient search and retrieval, lossless wavelet-based compress. *Boucheron, L.E.*, +, *T-GRS May 05* 1210-1214
- hyperspectral imagery, quality criteria benchmark. *Christophe, E.*, +, *T-GRS Sep 05* 2103-2114
- Image color analysis**  
hyperspectral data, segmented PCT for color representation and class., fusion. *Tsagaris, V.*, +, *T-GRS Oct 05* 2365-2375
- Image databases**  
rem. sens. image archives, syst. eval., inform. mining. *Daschiel, H.*, +, *T-GRS Jan 05* 188-199
- Image edge analysis**  
estim. ocean wave group params. from radar images, wavelet-based algm. *Niedermeier, A.*, +, *T-GRS Feb 05* 327-336
- perfectly conducting objs. by multiview expt. data, shape reconstruction. *Soldovieri, F.*, +, *T-GRS Jan 05* 65-71
- Image enhancement**  
hyperspectral resolu. enhanc., high-resolu. multispectral imagery, arbitrary response fns. *Eismann, M.T.*, +, *T-GRS Mar 05* 455-465
- multilook imagery for multispectral thermal imager, resolu. enhanc. *Galbraith, A.E.*, +, *T-GRS Sep 05* 1964-1977
- Image matching**  
Amazon basin-wide SAR mosaics, SRTM DEM data, automated georeferencing and orthorectification. *Yongwei Sheng*, +, *T-GRS Aug 05* 1929-1940
- appl., rem. sens., automatic image registration. *Bentoutou, Y.*, +, *T-GRS Sep 05* 2127-2137
- ASTER geometric performance. *Iwasaki, A.*, +, *T-GRS Dec 05* 2700-2706
- Image processing**  
3D seismic data, fault surface detect. *Gibson, D.*, +, *T-GRS Sep 05* 2094-2102
- fusion methods, comparative anal. *Zhijun Wang*, +, *T-GRS Jun 05* 1391-1402
- kernel RX-algm. *Heesung Kwon*, +, *T-GRS Feb 05* 388-397
- littoral zone from AVIRIS, LASH, QuickBird imagery, rem. bathymetry. *Adler-Golden, S.M.*, +, *T-GRS Feb 05* 337-347
- sens. spectral response, image fusion methods, appl., wavelet-based methods, introduction. *Otazu, X.*, +, *T-GRS Oct 05* 2376-2385
- urban true orthorectification, comprehensive study. *Guoqing Zhou*, +, *T-GRS Sep 05* 2138-2147
- vertex component anal., fast algm., unmix hyperspectral data. *Nascimento, J.M.P.*, +, *T-GRS Apr 05* 898-910
- wildland fire detect., multispectral imagery, hybrid contextual approach. *Ying Li*, +, *T-GRS Sep 05* 2115-2126
- Image processing; cf.** Image coding; Image color analysis; Image enhancement; Image recognition; Image reconstruction; Image registration; Image resolution; Image sampling; Image segmentation; Radar imaging
- Image recognition**  
invariant recogn. of 3D hyperspectral textures, multiband correl. models. *Miaohong Shi*, +, *T-GRS May 05* 1201-1209
- stereoscopic airborne Radar images, rect. building extr. *Simonetto, E.*, +, *T-GRS Oct 05* 2386-2395
- Image recognition; cf.** Image classification; Image matching
- Image reconstruction**  
3D multipass SAR focusing. *Fornaro, G.*, +, *T-GRS Apr 05* 702-714
- HYDROS, spatial resolu. and proc. tradeoffs. *Long, D.G.*, +, *T-GRS Jan 05* 3-12
- multilook imagery for multispectral thermal imager, resolu. enhanc. *Galbraith, A.E.*, +, *T-GRS Sep 05* 1964-1977
- perfectly conducting objs. by multiview expt. data, shape reconstruction. *Soldovieri, F.*, +, *T-GRS Jan 05* 65-71
- SMOS L1 processor, MIRAS end-to-end calib. *Corbella, I.*, +, *T-GRS May 05* 1126-1134
- Image registration**  
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- fiducials and unsurveyed landmarks, geolocation tools, vehicular-based landmine search. *Kansal, S.*, +, *T-GRS Jun 05* 1432-1439
- multilook imagery for multispectral thermal imager, resolu. enhanc. *Galbraith, A.E.*, +, *T-GRS Sep 05* 1964-1977
- terra MODIS on-orbit spatial charactn. and perform. *Xiaoxiong Xiong*, +, *T-GRS Feb 05* 355-365
- Image representations**  
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- hyperspectral data, segmented PCT for color representation and class., fusion. *Tsagaris, V.*, +, *T-GRS Oct 05* 2365-2375
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- Image resolution**  
AIRS radiances, MODIS, optimal cloud-clearing. *Jun Li*, +, *T-GRS Jun 05* 1266-1278
- class. of multiresolution rem. sens. data, bayesian approach. *Storvik, G.*, +, *T-GRS Mar 05* 539-547
- design goals and solutions for display of hyperspectral images. *Jacobson, N.P.*, +, *T-GRS Nov 05* 2684-2692
- extended objs., high-resolu. SAR images, CFAR detect. *di Bisceglie, M.*, +, *T-GRS Apr 05* 833-843
- HYDROS, spatial resolu. and proc. tradeoffs. *Long, D.G.*, +, *T-GRS Jan 05* 3-12
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- multilook imagery for multispectral thermal imager, resolu. enhanc. *Galbraith, A.E.*, +, *T-GRS Sep 05* 1964-1977

- study of fifteen yrs. of satellite image class. expts., results and implications. *Wilkinson, G.G.*, *T-GRS Mar 05* 433-440
- unmixing hyperspectral data, ICA play, role. *Nascimento, J.M.P.*, +, *T-GRS Jan 05* 175-187
- Image sampling**
- multilook imagery for multispectral thermal imager, resolu. enhanc. *Galbraith, A.E.*, +, *T-GRS Sep 05* 1964-1977
- subsampling, MODIS level-3 stats. of cloud opt. thickness and effective rad., impact. *Oreopoulos, L.*, *T-GRS Feb 05* 366-373
- Image segmentation**
- identify good tracer clouds from seq. of satellite images, approach. *Mandal, A.K.*, +, *T-GRS Apr 05* 813-818
- MAP estim., rem. sens. image segm., unified framework. *Farag, A.A.*, +, *T-GRS Jul 05* 1617-1634
- multiscale region-based class. of vector-valued images, hierarchical Markovian model. *Katartzis, A.*, +, *T-GRS Mar 05* 548-558
- precise detect. of upwelling and filaments, rem. sens. imagery, automatic tool. *Marcello, J.*, +, *T-GRS Jul 05* 1605-1616
- region adjacency graph for fusion of SAR and opt. data, radargrammetric appls., Markov random field. *Tupin, F.*, +, *T-GRS Aug 05* 1920-1928
- rem. sens. images, tree-struct. MRF model, supervised segm. *Poggi, G.*, +, *T-GRS Aug 05* 1901-1911
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- scene class., visual grammar, learning bayesian classifiers. *Aksoy, S.*, +, *T-GRS Mar 05* 581-589
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- synthetic aperture Radar sea ice imagery, Markov random field model, unsupervised segm. *Huawu Deng*, +, *T-GRS Mar 05* 528-538
- Image sensors**
- aerosol opt. depth retrieval, NASA Stennis Space Center. *Chylek, P.*, +, *T-GRS Sep 05* 1978-1983
- bare soil/vegetation ratio, SPOT VEGETATION and HRVIR, estim. and monitoring. *Mercier, G.*, +, *T-GRS Feb 05* 348-354
- multilook imagery for multispectral thermal imager, resolu. enhanc. *Galbraith, A.E.*, +, *T-GRS Sep 05* 1964-1977
- sens. spectral response, image fusion methods, appl., wavelet-based methods, introduction. *Otazu, X.*, +, *T-GRS Oct 05* 2376-2385
- Image sequence analysis**
- detecting man-made objs. and changes, imagery, cluster-based approach. *Carlotto, M.J.*, *T-GRS Feb 05* 374-387
- identify good tracer clouds from seq. of satellite images, approach. *Mandal, A.K.*, +, *T-GRS Apr 05* 813-818
- Image texture analysis**
- automated class. of sea ice image data, multisensor approach. *Bogdanov, A.V.*, +, *T-GRS Jul 05* 1648-1664
- invariant recogn. of 3D hyperspectral textures, multiband correl. models. *Miaohong Shi*, +, *T-GRS May 05* 1201-1209
- SAR imagery, efficient texture anal. *Kandaswamy, U.*, +, *T-GRS Sep 05* 2075-2083
- SAR imagery, inform.-theoretic heterog. meas. *Aiazzi, B.*, +, *T-GRS Mar 05* 619-624
- synthetic aperture Radar sea ice imagery, Markov random field model, unsupervised segm. *Huawu Deng*, +, *T-GRS Mar 05* 528-538
- Imaging; cf.** Infrared imaging; Microwave imaging; Millimeter wave imaging; Radar imaging
- Indexing**
- leaf area index estimation of boreal forest using ENVISAT ASAR. *Manninen, T.*, +, *T-GRS Nov 05* 2627-2635
- Inference mechanisms; cf.** Spatial reasoning; Temporal reasoning
- Information analysis; cf.** Classification; Indexing
- Information retrieval**
- exploration and understanding of Earth obs. images, human-centered concepts. *Datcu, M.*, +, *T-GRS Mar 05* 601-609
- rem. sens. image archives, syst. eval., inform. mining. *Daschiel, H.*, +, *T-GRS Jan 05* 188-199
- Information science; cf.** Information retrieval
- Information theory; cf.** Encoding
- Infrared detectors**
- neural-network technique for the retrieval of atmospheric temperature and moisture profiles. *Blackwell, W.J.*, *T-GRS Nov 05* 2535-2546
- Infrared imaging**
- aerosol opt. depth retrieval, NASA Stennis Space Center. *Chylek, P.*, +, *T-GRS Sep 05* 1978-1983
- AIRS radiances, MODIS, optimal cloud-clearing. *Jun Li*, +, *T-GRS Jun 05* 1266-1278
- bare soil/vegetation ratio, SPOT VEGETATION and HRVIR, estim. and monitoring. *Mercier, G.*, +, *T-GRS Feb 05* 348-354
- cloud stats. meas., IR cloud imager (ICI). *Thurairajah, B.*, +, *T-GRS Sep 05* 2000-2007
- combined modeling and multispectral/multiresolution rem. sens. approach for disaggregation of surface soil moisture. *Merlin, O.*, +, *T-GRS Sep 05* 2036-2050
- full-spectrum spectral imaging syst. anal. model. *Kerekes, J.P.*, +, *T-GRS Mar 05* 571-580
- littoral zone from AVIRIS, LASH, QuickBird imagery, rem. bathymetry. *Adler-Golden, S.M.*, +, *T-GRS Feb 05* 337-347
- mid- and thermal IR data from Multispectral Thermal Imager (MTI), automated high-altitude validation site, Lake Tahoe CA/NV, USA, in-flight validation. *Hook, S.J.*, +, *T-GRS Sep 05* 1991-1999
- modeling MTI EO syst. sensitivity and resolu. *Cooke, B.J.*, +, *T-GRS Sep 05* 1950-1963
- multilook imagery for multispectral thermal imager, resolu. enhanc. *Galbraith, A.E.*, +, *T-GRS Sep 05* 1964-1977
- multispectral thermal imager, mission and appls. overview. *Szymanski, J.J.*, +, *T-GRS Sep 05* 1943-1949
- multispectral thermal imager (MTI) surface temp. retrieval algm., 3 sites, perform. *Rodger, A.P.*, +, *T-GRS Mar 05* 658-665
- retrieve land-surface temp. from MSG/SEVIRI, emissivity maps. *Peres, L.F.*, +, *T-GRS Aug 05* 1834-1844
- spatial resolu., satellite aerosol opt. depth retrieval, effect. *Henderson, B.G.*, +, *T-GRS Sep 05* 1984-1990
- wildland fire detect., multispectral imagery, hybrid contextual approach. *Ying Li*, +, *T-GRS Sep 05* 2115-2126
- Infrared sources**
- atmospheric correction of aster thermal infrared imagery using the WVS method. *Tonooka, H.*, *T-GRS Dec 05* 2778-2792
- calibration of ASTER thermal infrared bands. *Tonooka, H.*, +, *T-GRS Dec 05* 2733-2746
- correction of stray light and filter scratch blurring for ASTER imagery. *Iwasaki, A.*, +, *T-GRS Dec 05* 2763-2768
- inflight stray light analysis for ASTER thermal infrared bands. *Tonooka, H.*, *T-GRS Dec 05* 2752-2762
- validation of a crosstalk correction algorithm for ASTER/SWIR. *Iwasaki, A.*, +, *T-GRS Dec 05* 2747-2751
- Infrared spectroscopy**
- field radiance spectra, Fraunhofer line principle, detecting solar-induced chlorophyll fluoresc. *Liangyun Liu*, +, *T-GRS Apr 05* 827-832
- Inorganic compounds; cf.** Chlorine compounds
- Instruments; cf.** Spectrometers
- Integral equations**
- mixed-pot. time-domain integral eqns. for half-space environments, fast soln. *Bagci, H.*, +, *T-GRS Feb 05* 269-279
- Interactive systems**
- rem. sens. image archives, syst. eval., inform. mining. *Daschiel, H.*, +, *T-GRS Jan 05* 188-199
- Interference**
- 24-GHz automotive Radars, pass. microwave Earth rem. sens. Satellites, interf. *Kerr, Y.H.*, +, *T-GRS Jul 05* 1691-1692
- 24-GHz automotive radars, pass. microwave Earth rem. sens. satellites, interf. *Gasiewski, A.J.*, +, *T-GRS Jul 05* 1692-1693
- Interference (signal); cf.** Crosstalk; Electromagnetic interference
- Interference suppression**
- over-the-horizon radar, adaptive time-freq. anal., transient interf. excision. *Xin Guo*, +, *T-GRS Apr 05* 722-735
- Interferometry**
- correlation and total power radiometer front-ends using noise waves. *Corbella, I.*, +, *T-GRS Nov 05* 2452-2459
- earth observ. image and DEM information aggregation for realistic 3-D visualization of natural landscapes. *Maire, C.*, +, *T-GRS Nov 05* 2676-2683
- sea surface velocity vector retrieval using dual-beam interferometry. *Toporkov, J.V.*, +, *T-GRS Nov 05* 2494-2502
- wetland characteristics in semiarid environments (Central Spain), multisensor approach. *Schmid, T.*, +, *T-GRS Nov 05* 2516-2525
- Interpolation**
- merging high- and low-resolu. DEMs from TOPSAR and SRTM, predict.-error filter. *Sang-Ho Yun*, +, *T-GRS Jul 05* 1682-1690

over-the-horizon radar, adaptive time-freq. anal., transient interf. excision.  
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#### Inverse problems

microwave-based precip. retrieval, Bayesian algm. *Di Michele, S., +, T-GRS Apr 05 778-791*  
microwave radiometer spatial resolu. enhanc. *Migliaccio, M., +, T-GRS May 05 1159-1169*  
mixed-pot. time-domain integral eqns. for half-space environments, fast soln. *Bagci, H., +, T-GRS Feb 05 269-279*  
perfectly conducting objs. by multiview expt. data, shape reconstruction. *Soldovieri, F., +, T-GRS Jan 05 65-71*  
regularized inversion methods, synthetic aperture imaging radiometry, comp. *Picard, B., +, T-GRS Feb 05 218-224*  
surface props. of ice sheets from satellite microwave data, inversion. *Flach, J.D., +, T-GRS Apr 05 743-752*

#### Ionospheric electromagnetic propagation

tomography, GNSS refls. *Pallares, J.M., +, T-GRS Feb 05 321-326*

#### Iterative methods

class. of multiresolution rem. sens. data, bayesian approach. *Storvik, G., +, T-GRS Mar 05 539-547*  
inexact-Newton method for short-range microwave imaging. *Estatico, C., +, T-GRS Nov 05 2593-2605*  
resolu. of equiv. dipole polarizabilities insitu, optimizing receiver configurations. *Smith, J.T., +, T-GRS Jul 05 1490-1498*

**Iterative methods; cf.** Newton method

## K

#### Knowledge acquisition

bare soil/vegetation ratio, SPOT VEGETATION and HRVIR, estim. and monitoring. *Mercier, G., +, T-GRS Feb 05 348-354*

**Knowledge engineering; cf.** Knowledge acquisition

**Knowledge representation; cf.** Belief networks

## L

#### Lamps

onboard calibration of the ASTER instrument. *Sakuma, F., +, T-GRS Dec 05 2715-2724*

#### Laser radar

gravity wave momentum flux, spectrosc. imaging, estim. *Jing Tang, +, T-GRS Jan 05 103-109*  
spatial and temporal stabil. of airborne laser swath mapping data, feature space. *Luzum, B.J., +, T-GRS Jun 05 1403-1420*

**Learning (artificial intelligence); cf.** Unsupervised learning

#### Learning systems

automatic CRP mapping, nonparametric machine learning approaches. *Xiaomu Song, +, T-GRS Apr 05 888-897*  
dyn. clusters, image time-series for spatio-temporal reasoning, modeling trajectory. *Heas, P., +, T-GRS Jul 05 1635-1647*  
MAP estim., rem. sens. image segm., unified framework. *Farag, A.A., +, T-GRS Jul 05 1617-1634*  
rem. sens. class., stat. self-organizing learning syst. *Hoi-Ming Chi, +, T-GRS Aug 05 1890-1900*

**Light; cf.** Stray light

#### Lightning

lightning and DSD params., correl. *Saylor, J.R., +, T-GRS Aug 05 1806-1815*

**Light scattering; cf.** Rayleigh scattering

**Light sources; cf.** Infrared sources

**Linear algebra; cf.** Eigenvalues and eigenfunctions

**Liquids; cf.** Water

**Luminescence; cf.** Fluorescence

## M

#### Machine vision

exploration and understanding of Earth obs. images, human-centered concepts. *Datcu, M., +, T-GRS Mar 05 601-609*  
scene class., visual grammar, learning bayesian classifiers. *Aksoy, S., +, T-GRS Mar 05 581-589*

#### Magnetic storms

October/November 2003 storms, EGNOS test bed ionos. corrections. *Hernandez-Pajares, M., +, T-GRS Oct 05 2283-2293*

#### Magnetic susceptibility

planetary exploration, small EM sens. *Haoping Huang, +, T-GRS Jul 05 1499-1506*

#### Magnetic transducers

planetary exploration, small EM sens. *Haoping Huang, +, T-GRS Jul 05 1499-1506*

**Magnetism; cf.** Magnetic susceptibility

#### Marine pollution

FARIMA-based technique for oil slick and low-wind areas discrimination in sea SAR imagery. *Bertacca, M., +, T-GRS Nov 05 2484-2493*

#### Markov processes

class. of multiresolution rem. sens. data, bayesian approach. *Storvik, G., +, T-GRS Mar 05 539-547*  
labeling terrain, hyperspectral imaging, Bayesian MRF framework. *Neher, R., +, T-GRS Jun 05 1363-1374*  
multiscale region-based class. of vector-valued images, hierarchical Markovian model. *Katartzis, A., +, T-GRS Mar 05 548-558*  
operational map-guided classification of SAR sea ice imagery. *Maillard, P., +, T-GRS Dec 05 2940-2951*  
random field clustering of large rem. sens. images, initialization. *Tran, T.N., +, T-GRS Aug 05 1912-1919*  
rem. sens. images, tree-struct. MRF model, supervised segm. *Poggi, G., +, T-GRS Aug 05 1901-1911*  
superv. image classification by contextual AdaBoost based on posteriors in neighborhoods. *Nishii, R., +, T-GRS Nov 05 2547-2554*  
synthetic aperture Radar sea ice imagery, Markov random field model, unsupervised segm. *Huawu Deng, +, T-GRS Mar 05 528-538*

**Markov processes; cf.** Hidden Markov models

**Materials; cf.** Dielectric materials; Sand

**Mathematical analysis; cf.** Differential equations; Eigenvalues and eigenfunctions; Integral equations; Inverse problems

**Mathematics; cf.** Estimation theory; Probability; Statistics

#### Matrices

Gaussian beam by periodic array of circ. cylinders, 2D scatt. *Yang, J., +, T-GRS Feb 05 280-285*

**Matrix algebra; cf.** Covariance matrices

**Matrix decomposition; cf.** Singular value decomposition

#### Maximum likelihood estimation

hyperspectral resolu. enhanc., high-resolu. multispectral imagery, arbitrary response fns. *Eismann, M.T., +, T-GRS Mar 05 455-465*  
labeling terrain, hyperspectral imaging, Bayesian MRF framework. *Neher, R., +, T-GRS Jun 05 1363-1374*  
lin. mixture model and depend., point spread fn., residual term. *Settle, J.J., T-GRS Feb 05 398-401*  
MAP estim., rem. sens. image segm., unified framework. *Farag, A.A., +, T-GRS Jul 05 1617-1634*  
orthogonal subspace projection (OSP). *Chein-I Chang, T-GRS Mar 05 502-518*  
SeaWinds, sea ice mapping method. *Anderson, H.S., +, T-GRS Mar 05 647-657*  
simultaneously unwrap, geocode, fuse SAR interferograms from different viewing geometries, 1 DEM, max.-likelihood estimator. *Eineder, M., +, T-GRS Jan 05 24-36*  
wavelet domain stat. hyperspectral soil texture class. *Xudong Zhang, +, T-GRS Mar 05 615-618*

#### Maxwell equations

GPR simul., dispers. media, discontinuous galerkin time-domain method. *Tiao Lu, +, T-GRS Jan 05 72-80*  
migration vel. anal. and prestack migration of common-transmitter GPR data. *Hui Zhou, +, T-GRS Jan 05 86-91*

#### Measurement

analytical calibration approach for microwave polarimetric radiometers. *Pham, H., +, T-GRS Nov 05 2443-2451*  
direct comparison of field and laboratory goniometer meas. *Dangel, S., +, T-GRS Nov 05 2666-2675*  
method to derive smoke emission rates from MODIS fire radiative energy measurements. *Ichoku, C., +, T-GRS Nov 05 2636-2649*

**Measurement; cf.** Noise measurement; Polarimetry; Radiometry

#### Measurement errors

hydros radiometer-only soil moisture products, observing syst. simul. expt. *Crow, W.T., +, T-GRS Jun 05 1289-1303*  
reflectivity of calib. targets, errors resulting. *Randa, J., +, T-GRS Jan 05 50-58*

**Mechanical variables control; cf.** Velocity control

**Mechanical variables measurement; cf.** Stress measurement

**Meetings**

- 2004 International Geoscience and Remote Sensing Symposium, IGARSS'04 (special section). *T-GRS Nov 05* 2407-2408, 2418-2572
- 2004 International Geoscience and Remote Sensing Symposium, IGARSS'04 (special section intro.). *Davis, C.H., +, T-GRS Nov 05* 2407-2408
- 8th Specialist Meeting on Microwave Radiometry and Remote Sensing Applications, MicroRad04 (special section). *T-GRS May 05* 919, 925-1179
- 8th Specialist Meeting on Microwave Radiometry and Remote Sensing Applications, MicroRad04 (special section intro.). *Pierdicca, N., +, T-GRS May 05* 919-923

**Melting**

- monitoring of melting refreezing cycles of snow with microwave radiometers, microwave alpine snow melting experiment. *Macelloni, G., +, T-GRS Nov 05* 2431-2442

**Melt processing**

- surface roughness and morphology of first-year sea ice melt ponds. *Scharien, R.K., +, T-GRS Dec 05* 2927-2939

**Meteorological radar**

- constrained iter. tech., embedded neural net. for dual-polariz. radar correction of rain path atten. *Vulpiani, G., +, T-GRS Oct 05* 2305-2314
- GPM dual-freq. retrieval, systs. approach. *Rose, C.R., +, T-GRS Aug 05* 1816-1826
- hydrometeor class. syst., dual-polariz. radar meas. *Lim, S., +, T-GRS Apr 05* 792-801
- IWRAP, Imaging Wind and Rain Airborne Profiler for rem. sens. of ocean and atmos. boundary layer, tropical cyclones. *Fernandez, D.E., +, T-GRS Aug 05* 1775-1787
- onboard processor and adaptive scanning controller for Second-Generation Precipitation Radar. *Fischman, M.A., +, T-GRS Apr 05* 802-812

**Meteorology**

- advanced microwave sounding unit, NOAA operational hydrol. products derived. *Ferraro, R.R., +, T-GRS May 05* 1036-1049
- cloud stats. meas., IR cloud imager (ICI). *Thurairajah, B., +, T-GRS Sep 05* 2000-2007
- constrained iter. tech., embedded neural net. for dual-polariz. radar correction of rain path atten. *Vulpiani, G., +, T-GRS Oct 05* 2305-2314
- hydrometeor class. syst., dual-polariz. radar meas. *Lim, S., +, T-GRS Apr 05* 792-801
- remotely sensed precip. regimes, MODIS/AMSR-E blended data techs., improved charactn. *Turk, F.J., +, T-GRS May 05* 1059-1069

**Meteorology; cf.** Meteorological radar; Storms; Weather forecasting; Weather modification

**Meters; cf.** Goniometers; Radiometers

**Microwave devices**

- surface roughness and morphology of first-year sea ice melt ponds. *Scharien, R.K., +, T-GRS Dec 05* 2927-2939

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- exploitation of the a priori info. through a microwave imaging procedure. *Benedetti, M., +, T-GRS Nov 05* 2584-2592
- HYDROS, spatial resoln. and proc. tradeoffs. *Long, D.G., +, T-GRS Jan 05* 3-12
- radiometer spatial resoln. enhanc. *Migliaccio, M., +, T-GRS May 05* 1159-1169
- regularized inversion methods, synthetic aperture imaging radiometry, comp. *Picard, B., +, T-GRS Feb 05* 218-224
- SMOS L1 processor, MIRAS end-to-end calib. *Corbella, I., +, T-GRS May 05* 1126-1134
- temp., water vap., cloud water profiles from advanced microwave sounding unit (AMSU), 1D variational retrieval algm. *Quanhua Liu, +, T-GRS May 05* 1087-1095

**Microwave measurements**

- 2 microwave land emissivity parameterizations suitable for AMSU obs. *Karbou, F., T-GRS Aug 05* 1788-1795
- 3D polarized reversed Monte Carlo radiative transfer model for Millimeter/submillimeter pass. rem. sens., cloudy atmos. *Davis, C., +, T-GRS May 05* 1096-1101
- 3D spilling breaker crest, low-grazing-angle microwave scatt. *Zhiqin Zhao, +, T-GRS Feb 05* 286-294
- accurate S-params. meas. and permitt. reconstruction, tool. *Gorriti, A.G., +, T-GRS Aug 05* 1727-1735
- advanced microwave sounding unit, NOAA operational hydrol. products derived. *Ferraro, R.R., +, T-GRS May 05* 1036-1049

- air-sea interact. params., ocean surface microwave emission, 10 and 37 GHz, effects. *Aziz, M.A., +, T-GRS Aug 05* 1763-1774
- ang. distrib. models, anisotropic correction factors, mixed clear-scene types. *Bertrand, C., +, T-GRS Jan 05* 92-102
- antenna pattern freq. depend., aperture synthesis microwave radiometers, impact. *Camps, A., +, T-GRS Oct 05* 2218-2224
- beam-filling effect correction, subpixel cloud fraction, neural net. *Lafont, D., +, T-GRS May 05* 1070-1077
- Bradley-Terry model, quantify assoc., remotely sensed images. *Stein, A., +, T-GRS Apr 05* 852-856
- brightness temp. distribs., quasiopt. radiometer syst., 90 GHz, fully polarimetric meas. *Suess, H., +, T-GRS May 05* 1170-1179
- broadband microwave radiometer tech., X-band for rain and drop size distrib. estim. *Meneghini, R., T-GRS May 05* 990-999
- calc. complex effective permitt. of aq. electrolyte soln., microwave freq., empirical formula. *Xiaoqing Yang, +, T-GRS Feb 05* 315-320
- combined modeling and multispectral/multiresolution rem. sens. approach for disaggregation of surface soil moisture. *Merlin, O., +, T-GRS Sep 05* 2036-2050
- disordered mixture, pseudorandom simul., num. modeling. *Jylha, L., +, T-GRS Jan 05* 59-64
- erg surfaces, Sahara desert, microwave backscatt. modeling. *Stephen, H., +, T-GRS Feb 05* 238-247
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- foam-covered water surface, L-band, emissivity. *Camps, A., +, T-GRS May 05* 925-937
- full-spectrum spectral imaging syst. anal. model. *Kerekes, J.P., +, T-GRS Mar 05* 571-580
- gravity-capillary spectrum params. by of microwave radiometric techs., retrieval. *Kuzmin, A.V., +, T-GRS May 05* 983-989
- half-width of 22-GHz water vap. line, retrievals of temp. and water vap. profiles, 12-channel microwave radiometer, effect. *Liljegren, J.C., +, T-GRS May 05* 1102-1108
- hydros radiometer-only soil moisture products, observing syst. simul. expt. *Crow, W.T., +, T-GRS Jun 05* 1289-1303
- HYDROS, spatial resoln. and proc. tradeoffs. *Long, D.G., +, T-GRS Jan 05* 3-12
- integrat. in situ and multiscale pass. microwave data for estim. of subgrid scale snow water equiv. distrib. and variability. *Derksen, C., +, T-GRS May 05* 960-972
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- maritime pine forest suitable for discrete microwave models, forest geometric description. *Saleh, K., +, T-GRS Sep 05* 2024-2035
- melt and freeze stages of melt cycle, SSM/I channel ratios, differentiation. *Ashcraft, I.S., +, T-GRS Jun 05* 1317-1323
- microwave-based precip. retrieval, Bayesian algm. *Di Michele, S., +, T-GRS Apr 05* 778-791
- MM5 integr. water vap., microwave radiometer, GPS, radiosonde meas., comp. *Memmo, A., +, T-GRS May 05* 1050-1058
- model predict., meas. of gal. background noise, L-band, comp. *Le Vine, D.M., +, T-GRS Sep 05* 2018-2023
- multispectral thermal imager (MTI) surface temp. retrieval algm., 3 sites, perform. *Rodger, A.P., +, T-GRS Mar 05* 658-665
- ocean-like surface thermal emission and refl., Voronovich's small slope approx. *Johnson, J.T., T-GRS Feb 05* 306-314
- pass. microwave ice conc. algm. retrievals, AVHRR imagery, arctic peripheral seas, comp. *Meier, W.N., T-GRS Jun 05* 1324-1337
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- RFI, AMSR-E land obs., global survey and stats. *Njoku, E.G., +, T-GRS May 05* 938-947
- river surface currents, coherent microwave systs., meas. *Plant, W.J., +, T-GRS Jun 05* 1242-1257



- sea surface salinity and soil moisture retrieval algms., different auxiliary datasets, 2D L-band aperture synthesis interferometric radiometers. *Camps, A., +, T-GRS May 05 1189-1200*
- slant wet delays meas. by microwave radiometry, correl. *Nilsson, T., +, T-GRS May 05 1028-1035*
- SMOS L1 processor, MIRAS end-to-end calib. *Corbella, I., +, T-GRS May 05 1126-1134*
- SMOS REFLEX 2003, L-band emissivity charactn. of vineyards. *Vall-llossera, M., +, T-GRS May 05 973-982*
- soil moisture retrieval from tau-omega microwave emission model, sensitivity anal. *Davenport, I.J., +, T-GRS Jun 05 1304-1316*
- soil moisture retrievals from airborne L-band radiometer meas., SMEX02, param. sensitivity. *Crosson, W.L., +, T-GRS Jul 05 1517-1528*
- soil water under growing clover grass, l-band radiometer meas. *Schwank, M., +, T-GRS Oct 05 2225-2237*
- space, l-band radiometers measuring salinity. *Skou, N., +, T-GRS Oct 05 2210-2217*
- starting long-term stratos. obs., RAMAS, Summit, Greenland. *Golchert, S.H.W., +, T-GRS May 05 1022-1027*
- stratos. ozone and ClO meas., Balloon-Borne submillimeter limb sounder. *Ochiai, S., +, T-GRS Jun 05 1258-1265*
- stratos. water vap. meas., 183 GHz, airborne radiometer. *Vasic, V., +, T-GRS Jul 05 1563-1570*
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- temp. depend. of line-coupling params. of microwave O band, uncertainties. *Boukabara, S.A., +, T-GRS May 05 1109-1114*
- tropical precip. inferred from TRMM microwave imager data, spatial scales. *Smith, D.F., +, T-GRS Jul 05 1542-1551*
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- semantics-enabled framework for knowledge discovery from earth observation data archives. *Durbha, S.S., +, T-GRS Nov 05 2536-2572*
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- stationary foliage-observed targets by polarimetric mm-wave Radar, detect. *Nashashibi, A.Y., +, T-GRS Jan 05 13-23*
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- advances in techniques for analysis of remotely sensed data (special section intro.). *Richards, J.A., +, T-GRS Mar 05 411-413*
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- parameterized multifrequency-polarization surface emission model. *Shi, J., +, T-GRS Dec 05 2831-2841*
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- Modulation; cf. OFDM modulation**
- Moisture**
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- model predict., meas. of gal. background noise, L-band, comp. *Le Vine, D.M., +, T-GRS Sep 05 2018-2023*
- multiple scatt., phase signature of wet subsurface structs., effect. *Lasne, Y., +, T-GRS Aug 05 1716-1726*
- temp., water vap., cloud water profiles from advanced microwave sounding unit (AMSU), 1D variational retrieval algm. *Quanhua Liu, +, T-GRS May 05 1087-1095*
- Moisture measurement**
- AIRS radiances, MODIS, optimal cloud-clearing. *Jun Li, +, T-GRS Jun 05 1266-1278*
- fuel moisture content by inversion of radiative transfer models, simulate equiv. water thickness and dry matter content, estim. *Riano, D., +, T-GRS Apr 05 819-826*
- hydros radiometer-only soil moisture products, observing syst. simul. expt. *Crow, W.T., +, T-GRS Jun 05 1289-1303*
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- melt and freeze stages of melt cycle, SSM/I channel ratios, differentiation. *Ashcraft, I.S., +, T-GRS Jun 05 1317-1323*
- neural-network technique for the retrieval of atmospheric temperature and moisture profiles. *Blackwell, W.J., T-GRS Nov 05 2535-2546*
- polarimetric scanning radiometer C- and X-band microwave observations during SMEX03. *Jackson, T.J., +, T-GRS Nov 05 2418-2430*
- regularized inversion methods, synthetic aperture imaging radiometry, comp. *Picard, B., +, T-GRS Feb 05 218-224*
- simplistic incidence angle approach to retrieve the soil moisture and surface roughness at X-band. *Singh, D., T-GRS Nov 05 2606-2611*
- soil moisture retrieval from tau-omega microwave emission model, sensitivity anal. *Davenport, I.J., +, T-GRS Jun 05 1304-1316*
- soil moisture retrievals from airborne L-band radiometer meas., SMEX02, param. sensitivity. *Crosson, W.L., +, T-GRS Jul 05 1517-1528*
- Moisture measurement; cf. Humidity measurement**
- Moment methods**
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- Monte Carlo methods**
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- direct and inverse radiative transfer solns. for vis. and near-IR hyperspectral imagery. *Miesch, C., +, T-GRS Jul 05 1552-1562*
- land surface temp. retrieval, Bayesian estim. *Morgan, J.A., T-GRS Jun 05 1279-1288*
- longwave EM response of nonhomogeneous media, comput. *Martin-Herrero, J., +, T-GRS Jul 05 1479-1489*
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- hyperspectral image data, seqs. of extended morph. transforms., dimensionality reduction and class. *Plaza, A., +, T-GRS Mar 05 466-479*
- Multilayer perceptrons**
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- hyperspectral data, segmented PCT for color representation and class., fusion. *Tsagaris, V., +, T-GRS Oct 05 2365-2375*
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- spectral response, image fusion methods, appl., wavelet-based methods, introduction. *Otazu, X., +, T-GRS Oct 05 2376-2385*

## N

**Natural sciences; cf. Chemistry; Geology****Neural nets**

- neural-network technique for the retrieval of atmospheric temperature and moisture profiles. *Blackwell, W.J., T-GRS Nov 05 2535-2546*
- soft computing approach for rainfall retrieval from the TRMM microwave imager. *Sarma, D.K., +, T-GRS Dec 05 2879-2885*

**Neural nets; cf. Self-organizing feature maps**

**Neural networks**

- automated class. of sea ice image data, multisensor approach. *Bogdanov, A.V.*, +, *T-GRS Jul 05 1648-1664*
- beam-filling effect correction, subpixel cloud fraction, neural net. *Lafont, D.*, +, *T-GRS May 05 1070-1077*
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- hyperspectral data from urban areas, extended morph. profiles, class. *Benediktsson, J.A.*, +, *T-GRS Mar 05 480-491*
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- rem. sens. class., stat. self-organizing learning syst. *Hoi-Ming Chi*, +, *T-GRS Aug 05 1890-1900*

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- cylindrical Layer, inhomog. impedance boundary, 1D profile inversion. *Yapar, A.*, +, *T-GRS Oct 05 2192-2199*

**Newton methods**

- inexact-Newton method for short-range microwave imaging. *Estatico, C.*, +, *T-GRS Nov 05 2593-2605*

**Noise measurement**

- correlation and total power radiometer front-ends using noise waves. *Corbella, I.*, +, *T-GRS Nov 05 2452-2459*
- radiometric performance evaluation of ASTER VNIR, SWIR, and TIR. *Arai, K.*, +, *T-GRS Dec 05 2725-2732*

**Nonelectric sensing devices; cf. Optical sensors****Numerical analysis; cf. Convergence of numerical methods; Error analysis; Interpolation; Iterative methods; Monte Carlo methods****O****Object detection**

- detecting man-made objs. and changes, imagery, cluster-based approach. *Carlotto, M.J.*, *T-GRS Feb 05 374-387*
- earth observ. image and DEM information aggregation for realistic 3-D visualization of natural landscapes. *Maire, C.*, +, *T-GRS Nov 05 2676-2683*
- extended objs., high-resoln. SAR images, CFAR detect. *di Bisceglie, M.*, +, *T-GRS Apr 05 833-843*
- frequency-selective detection of nuclear quadrupole resonance signals. *Jakobsson, A.*, +, *T-GRS Nov 05 2659-2665*
- orthogonal subspace projection (OSP). *Chein-I Chang*, *T-GRS Mar 05 502-518*
- perfectly conducting objs. by multiview expt. data, shape reconstruction. *Soldovieri, F.*, +, *T-GRS Jan 05 65-71*
- spatial and spectral inform. by of unsupervised extr. and class. for homogenous objs. applied, multispectral and hyperspectral data, integrat. *Jimenez, L.O.*, +, *T-GRS Apr 05 844-851*
- stationary foliage-obscured targets by polarimetric mm-wave Radar, detect. *Nashashibi, A.Y.*, +, *T-GRS Jan 05 13-23*
- vegetation stress detect., generic wavelet-based hyperspectral class. applied. *Kempeneers, P.*, +, *T-GRS Mar 05 610-614*

**Object detection; cf. Buried object detection****Ocean**

- critical examination of the residual cloud contamination and diurnal sampling effects on MODIS estimates of aerosol over ocean. *Kaufman, Y.J.*, +, *T-GRS Dec 05 2886-2897*
- geometrical optics model for bistatic GPS scattering from the ocean surface. *Thompson, D.R.*, +, *T-GRS Dec 05 2810-2821*

**Oceanography**

- wetland characteristics in semiarid environments (Central Spain), multisensor approach. *Schmid, T.*, +, *T-GRS Nov 05 2516-2525*

**Oceanography; cf. Ocean waves****Ocean waves**

- analysis of seawinds-based rain retrieval in severe weather events. *Allen, J.R.*, +, *T-GRS Dec 05 2870-2878*
- sea surface velocity vector retrieval using dual-beam interferometry. *Toporkov, J.V.*, +, *T-GRS Nov 05 2494-2502*

**OFDM modulation**

- kernel orthogonal subspace projection for hyperspectral signal classification. *Kwon, H.*, +, *T-GRS Dec 05 2952-2962*

**Oil pollution**

- FARIMA-based technique for oil slick and low-wind areas discrimination in sea SAR imagery. *Bertacca, M.*, +, *T-GRS Nov 05 2484-2493*

**Optical instruments; cf. Optical sensors****Optical properties; cf. Reflectivity****Optical reflection**

- calib. targets, errors resulting. *Randa, J.*, +, *T-GRS Jan 05 50-58*
- directional and spectral signatures of light reflectance by snow, meas. *Peltoniemi, J.I.*, +, *T-GRS Oct 05 2294-2304*
- hydrometeor class. syst., dual-polariz. radar meas. *Lim, S.*, +, *T-GRS Apr 05 792-801*
- MODIS leaf area index algm. retrievals, broadleaf forests, anal. and optim. *Shabanov, N.V.*, +, *T-GRS Aug 05 1855-1865*
- natural snow, reflective props. *Kokhanovsky, A.A.*, +, *T-GRS Jul 05 1529-1535*
- raindrop size distrib. from spaceborne Radar obs., estim. *Chandrasekar, V.*, +, *T-GRS May 05 1078-1086*

**Optical refraction**

- GLI by ground obs. data, vicarious calib. *Yoshida, M.*, +, *T-GRS Oct 05 2167-2176*

**Optical resolving power; cf. Image resolution****Optical scattering**

- natural snow, reflective props. *Kokhanovsky, A.A.*, +, *T-GRS Jul 05 1529-1535*

**Optical sensors**

- ASTER DEM performance. *Fujisada, H.*, +, *T-GRS Dec 05 2707-2714*
- radiometric uniformity and stability of test sites used for the calibration of earth observation sensors. *Bannari, A.*, +, *T-GRS Dec 05 2918-2926*

**Optical spectroscopy**

- field radiance spectra, Fraunhofer line principle, detecting solar-induced chlorophyll fluoresc. *Liangyun Liu*, +, *T-GRS Apr 05 827-832*

**Optical transfer functions**

- lin. mixture model and depend., point spread fn., residual term. *Settle, J.J.*, *T-GRS Feb 05 398-401*

**Optimization; cf. Genetic algorithms; Simulated annealing****Optimization methods**

- different reconstruction techs. of permit. from S-params., comp. *Gorriti, A.G.*, +, *T-GRS Sep 05 2051-2057*

**Oxygen**

- space, l-band radiometers measuring salinity. *Skou, N.*, +, *T-GRS Oct 05 2210-2217*
- temp. depend. of line-coupling params. of microwave O band, uncertainties. *Boukabara, S.-A.*, +, *T-GRS May 05 1109-1114*

**Ozone**

- starting long-term stratos. obs., RAMAS, Summit, Greenland. *Golchert, S.H.W.*, +, *T-GRS May 05 1022-1027*
- stratos. ozone and ClO meas., Balloon-Borne submillimeter limb sounder. *Ochiai, S.*, +, *T-GRS Jun 05 1258-1265*

**P****Parameter estimation**

- Bradley-Terry model, quantify assoc., remotely sensed images. *Stein, A.*, +, *T-GRS Apr 05 852-856*
- extended objs., high-resoln. SAR images, CFAR detect. *di Bisceglie, M.*, +, *T-GRS Apr 05 833-843*

**Parameter estimation; cf. Maximum likelihood estimation****Pattern classification; cf. Image classification****Pattern matching**

- fast data-derived fundamental spheroidal excitation models with application to UXO discrimination. *Sun, K.*, +, *T-GRS Nov 05 2573-2583*

**Pattern matching; cf. Image matching****Pattern recognition; cf. Feature extraction; Image recognition; Object detection; Pattern matching****Perceptrons; cf. Multilayer perceptrons****Performance evaluation**

- ASTER DEM performance. *Fujisada, H.*, +, *T-GRS Dec 05 2707-2714*
- ASTER geometric performance. *Iwasaki, A.*, +, *T-GRS Dec 05 2700-2706*
- exploitation of the a priori info. through a microwave imaging procedure. *Benedetti, M.*, +, *T-GRS Nov 05 2584-2592*
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**Permeability measurement**

- accurate S-params. meas. and permit. reconstruction, tool. *Gorriti, A.G.*, +, *T-GRS Aug 05 1727-1735*

**Permittivity**

calc. complex effective permitt. of aq. electrolyte soln., microwave freq., empirical formula. *Xiaoqing Yang*, +, *T-GRS Feb 05* 315-320  
 different reconstruction techs. of permitt. from S-params., comp. *Gorriti, A.G.*, +, *T-GRS Sep 05* 2051-2057  
 disordered mixture, pseudorandom simul., num. modeling. *Jylha, L.*, +, *T-GRS Jan 05* 59-64  
 estimating soil dielec. const. via scatt. meas. along specular direction. *Ceraldi, E.*, +, *T-GRS Feb 05* 295-305  
 longwave EM response of nonhomogeneous media, comput. *Martin-Herrero, J.*, +, *T-GRS Jul 05* 1479-1489  
 migration vel. anal. and prestack migration of common-transmitter GPR data. *Hui Zhou*, +, *T-GRS Jan 05* 86-91

**Permittivity measurement**

accurate S-params. meas. and permitt. reconstruction, tool. *Gorriti, A.G.*, +, *T-GRS Aug 05* 1727-1735

**Photochemistry; cf.** Photosynthesis**Photoelectric devices; cf.** Image sensors**Photosynthesis**

field radiance spectra, Fraunhofer line principle, detecting solar-induced chlorophyll fluoresc. *Liangyun Liu*, +, *T-GRS Apr 05* 827-832

**Piecewise polynomial approximation**

GPR simul., dispers. media, discontinuous galerkin time-domain method. *Tiao Lu*, +, *T-GRS Jan 05* 72-80

**Planets; cf.** Earth**Polarimetry**

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 constrained iter. tech., embedded neural net. for dual-polariz. radar correction of rain path atten. *Vulpiani, G.*, +, *T-GRS Oct 05* 2305-2314  
 stand age retrieval in production forest stands in New Zealand using C- and L-band polarimetric radar. *McNeill, S.*, +, *T-GRS Nov 05* 2503-2515

**Polarimetry; cf.** Radar polarimetry**Polarization**

bidirectional polarized reflectance model of soil. *Taixia, W.*, +, *T-GRS Dec 05* 2854-2859  
 leaf area index estimation of boreal forest using ENVISAT ASAR. *Manninen, T.*, +, *T-GRS Nov 05* 2627-2635  
 modeling microwave emissions of erg surfaces in the Sahara Desert. *Stephen, H.*, +, *T-GRS Dec 05* 2822-2830  
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 resoln. of equiv. dipole polarizabilities insitu, optimizing receiver configurations. *Smith, J.T.*, +, *T-GRS Jul 05* 1490-1498

**Polimetry**

polarimetric scanning radiometer C- and X-band microwave observations during SMEX03. *Jackson, T.J.*, +, *T-GRS Nov 05* 2418-2430

**Pollution; cf.** Air pollution; Water pollution**Principal component analysis**

design goals and solutions for display of hyperspectral images. *Jacobson, N.P.*, +, *T-GRS Nov 05* 2684-2692

**Probability**

estimated SAR look cross spectra acquired, ocean, noise model. *Schulz-Stellenfleh, J.*, +, *T-GRS Jul 05* 1443-1452  
 MAP estim., rem. sens. image segm., unified framework. *Farag, A.A.*, +, *T-GRS Jul 05* 1617-1634  
 polarimetric SAR image decomp., 4-component scatt. model. *Yamaguchi, Y.*, +, *T-GRS Aug 05* 1699-1706  
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**Programmable logic arrays; cf.** Field programmable gate arrays**Q****Quadtrees**

multiscale region-based class. of vector-valued images, hierarchical Markovian model. *Katartzis, A.*, +, *T-GRS Mar 05* 548-558

**Quantization (signal); cf.** Vector quantization**R**

**Radar; cf.** Airborne radar; Doppler radar; Meteorological radar; Radar detection; Radar polarimetry; Radar signal processing; Radar tracking; Spaceborne radar; Synthetic aperture radar

**Radar clutter**

airborne SAR, Radon transform, ambiguity-free Doppler centroid estim. tech. *Young-Kyun Kong*, +, *T-GRS Apr 05* 715-721  
 ionos. sporadic-E clutter, arctic environ. for assess. of HF surface-wave radar surveillance. *Thayaparan, T.*, +, *T-GRS May 05* 1180-1188

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**Remote sensing; cf.** Vegetation mapping

**Renewable energy sources; cf.** Bioenergy conversion; Wind power

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**Satellite navigation; cf.** Global Positioning System

#### Satellites

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**Transmitters; cf.** Transceivers

**Tree data structures; cf.** Quadtrees

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**Troposphere; cf.** Atmospheric boundary layer

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