

# 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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- modeling MTI EO syst. sensitivity and resoln. *Cooke, B.J.*, +, *T-GRS Sep 05* 1950-1963
- model predict., meas. of gal. background noise, L-band, comp. *Le Vine, D.M.*, +, *T-GRS Sep 05* 2018-2023
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- GPR simul., dispers. media, discontinuous galerkin time-domain method. *Tiao Lu*, +, *T-GRS Jan 05 72-80*

**Digital signal processors**

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

**Discharges (electric); cf.** Lightning**Discrete Fourier transforms**

- mixed-pot. time-domain integral eqns. for half-space environments, fast soln. *Bagci, H.*, +, *T-GRS Feb 05 269-279*

**Discrete transforms; cf.** Discrete Fourier transforms**Disperse systems; cf.** Aerosols; Smoke**Doppler effect**

- airborne SAR, Radon transform, ambiguity-free Doppler centroid estim. tech. *Young-Kyun Kong*, +, *T-GRS Apr 05 715-721*  
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**Doppler measurement; cf.** Doppler radar**Doppler radar**

- bistatically refl. GPS sigs. from LEO for purpose of ocean rem. sens., detect. and Processing. *Gleason, S.*, +, *T-GRS Jun 05 1229-1241*  
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- radiometric uniformity and stability of test sites used for the calibration of earth observation sensors. *Bannari, A.*, +, *T-GRS Dec 05 2918-2926*  
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**Eddy currents**

- spheroidal anom. *Norton, S.J.*, +, *T-GRS Oct 05 2200-2209*

**Eigenvalues and eigenfunctions**

- eigenvector-based target decomp. theorems, radar polarimetry, stat. assess. *Lopez-Martinez, C.*, +, *T-GRS Sep 05 2058-2074*

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

- method to derive smoke emission rates from MODIS fire radiative energy measurements. *Ichoku, C.*, +, *T-GRS Nov 05 2636-2649*

**Electromagnetic compatibility**

- 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*

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- geometrical optics model for bistatic GPS scattering from the ocean surface. *Thompson, D.R.*, +, *T-GRS Dec 05 2810-2821*

**Electromagnetic fields**

- spheroidal anom. *Norton, S.J.*, +, *T-GRS Oct 05 2200-2209*

**Electromagnetic induction**

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

- spheroidal anom. *Norton, S.J.*, +, *T-GRS Oct 05 2200-2209*

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- physically complete EMI response by heterog. metallic obj., fast and accurate calc. *Shubitidze, F.*, +, *T-GRS Aug 05 1736-1750*

**Electromagnetic radiative interference**

- enhanced landmine detect., quadrupole reson., Kalman filtering. *Yingyi Tan*, +, *T-GRS Jul 05 1507-1516*

- RFI, AMSR-E land obs., global survey and stats. *Njoku, E.G.*, +, *T-GRS May 05 938-947*

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- ocean-like surface thermal emission and refl., Voronovich's small slope approx. *Johnson, J.T.*, *T-GRS Feb 05 306-314*

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- 3D spilling breaker crest, low-grazing-angle microwave scatt. *Zhiqin Zhao*, +, *T-GRS Feb 05 286-294*

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

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

- scatt. and emission from natural surfaces modeled by fractals, extended boundary condition method. *Franceschetti, G.*, +, *T-GRS May 05 1115-1125*

- spheroidal anom. *Norton, S.J.*, +, *T-GRS Oct 05 2200-2209*

**Electromagnetism; cf.** Electromagnetic induction; Maxwell equations**Electrooptic devices**

- modeling MTI EO syst. sensitivity and resoln. *Cooke, B.J.*, +, *T-GRS Sep 05 1950-1963*

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- method to derive smoke emission rates from MODIS fire radiative energy measurements. *Ichoku, C.*, +, *T-GRS Nov 05 2636-2649*

- modeling microwave emissions of erg surfaces in the Sahara Desert. *Stephen, H.*, +, *T-GRS Dec 05 2822-2830*

- parameterized multifrequency-polarization surface emission model. *Shi, J.*, +, *T-GRS Dec 05 2831-2841*

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- validation of ASTER/TIR standard atmospheric correction using water surfaces. *Tonooka, H.*, +, *T-GRS Dec 05 2769-2777*

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- subsurface wireless DAQ syst. *Goswami, J.C.*, +, *T-GRS Oct 05 2332-2339*

**Encoding; cf.** Image coding; Vector quantization**Engineering; cf.** Design engineering**Environmental factors**

- high- and low-resoln. satellite data, estim. pine forest productivity, Mediterranean coastal area, integrat. *Maselli, F.*, +, *T-GRS Jan 05 135-143*

- semiarid rangeland obs. from Landsat ETM+ data, biophys. charactn. and mgt. effects. *Hongliang Fang*, +, *T-GRS Jan 05 125-134*

- spatially complete global spectral surface albedos. *Moody, E.G.*, +, *T-GRS Jan 05 144-158*

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- analytical calibration approach for microwave polarimetric radiometers. *Pham, H.*, +, *T-GRS Nov 05 2443-2451*

- study of fifteen yrs. of satellite image class. expts., results and implications. *Wilkinson, G.G.*, *T-GRS Mar 05 433-440*

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- eigenvector-based target decomp. theorems, radar polarimetry, stat. assess. *Lopez-Martinez, C.*, +, *T-GRS Sep 05 2058-2074*

- leaf area index estimation of boreal forest using ENVISAT ASAR. *Manninen, T.*, +, *T-GRS Nov 05 2627-2635*

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 symm. props. of geophys. media, compact polarimetry. *Souyris, J.-C.*, +, *T-GRS Mar 05 634-646*

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

**Gamma distributions**

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**Gaussian processes**

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- microwave-based precip. retrieval, Bayesian algm. *Di Michele, S.*, +, *T-GRS Apr 05* 778-791
- multiscale region-based class. of vector-valued images, hierarchical Markovian model. *Katartzis, A.*, +, *T-GRS Mar 05* 548-558
- opt. and radar class. for mapping pasture type, Western Australia, integrat. *Hill, M.J.*, +, *T-GRS Jul 05* 1665-1681
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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
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- 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
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- 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
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- study of fifteen yrs. of satellite image class. expts., results and implications. *Wilkinson, G.G.*, *T-GRS Mar 05* 433-440
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- 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
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- 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
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- 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
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- Image reconstruction**
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- HYDROS, spatial resolu. and proc. tradeoffs. *Long, D.G.*, +, *T-GRS Jan 05* 3-12
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- terra MODIS on-orbit spatial charactn. and perform. *Xiaoxiong Xiong*, +, *T-GRS Feb 05* 355-365
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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
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- 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
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- 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
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- 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
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- Image sequence analysis**
- detecting man-made objs. and changes, imagery, cluster-based approach. *Carlotto, M.J.*, *T-GRS Feb 05* 374-387
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- 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
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- 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, inflight 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
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- atmospheric correction of aster thermal infrared imagery using the WVS method. *Tonooka, H.*, *T-GRS Dec 05* 2778-2792
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- 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**
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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

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#### Iterative methods

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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*  
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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*  
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#### Maxwell equations

GPR simul., dispers. media, discontinuous galerkin time-domain method. *Tiao Lu, +, T-GRS Jan 05 72-80*  
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#### 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
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### Temperature; cf. Atmospheric temperature

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**Terrestrial atmosphere; cf.** Atmospheric composition; Atmospheric movements; Atmospheric temperature; Clouds; Meteorology

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**Thermal variables measurement; cf.** Temperature measurement

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**Transforms; cf.** Fourier transforms; Hough transforms; Radon transforms; Wavelet transforms

**Transient analysis**

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**Transmitters; cf.** Transceivers

**Tree data structures; cf.** Quadtrees

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**Trees (mathematics); cf.** Quadtrees

**Troposphere; cf.** Atmospheric boundary layer

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