

## KEYWORDS INDEX

**Volume XXIX, Part B7**

**ISPRS COMMISSION VII**

<b>3D . . . . .</b>	<b>116</b>
<b>3D GIS . . . . .</b>	<b>504</b>
<b>Absolute location . . . . .</b>	<b>926</b>
<b>Accuracy . . . . .</b>	<b>150</b>
<b>Acquaculture . . . . .</b>	<b>886</b>
<b>Adjustment . . . . .</b>	<b>295</b>
<b>Aerial photography . . . . .</b>	<b>771</b>
<b>Aerial space information . . . . .</b>	<b>668</b>
<b>Africa . . . . .</b>	<b>175</b>
<b>Aggregates . . . . .</b>	<b>583</b>
<b>Agricultural land use . . . . .</b>	<b>159, 1002</b>
<b>Agriculture . . . . .</b>	<b>422, 675, 844</b>
<b>Airborne imaging spectrometer . . . . .</b>	<b>836</b>
<b>Albedo . . . . .</b>	<b>317</b>
<b>Algae concentration . . . . .</b>	<b>307</b>
<b>Algae photosynthetic activity . . . . .</b>	<b>878</b>
<b>Alpine tundra . . . . .</b>	<b>317, 914</b>
<b>Amazon region . . . . .</b>	<b>159, 461, 760</b>
<b>Analysis of covariance . . . . .</b>	<b>516</b>
<b>Analysis of results . . . . .</b>	<b>730</b>
<b>Analytical . . . . .</b>	<b>109</b>
<b>Angular effect . . . . .</b>	<b>699</b>
<b>APAR estimation . . . . .</b>	<b>691</b>
<b>Applications . . . . .</b>	<b>675</b>
<b>Archaeological . . . . .</b>	<b>48</b>
<b>Area estimation . . . . .</b>	<b>284</b>
<b>Artificial intelligence . . . . .</b>	<b>810, 1015</b>
<b>Assessment . . . . .</b>	<b>53, 166</b>
<b>Atmospheric correction . . . . .</b>	<b>142, 340</b>
<b>Atmospheric remote sensing . . . . .</b>	<b>538</b>
<b>Au biogeochemical effects . . . . .</b>	<b>62</b>
<b>AVHRR . . . . .</b>	<b>101, 315, 357, 376, 764, 1009</b>
<b>AVHRR LAC . . . . .</b>	<b>277</b>
<b>AVIRIS . . . . .</b>	<b>72, 705</b>
<b>Back propagation algorithm . . . . .</b>	<b>964</b>
<b>Backpercolation . . . . .</b>	<b>1002</b>
<b>Basin scale . . . . .</b>	<b>803</b>
<b>Basin soil loss . . . . .</b>	<b>153</b>
<b>Bidirectional Reflectance distribution . . . . .</b>	<b>26</b>
<b>Biomass . . . . .</b>	<b>277</b>
<b>Block . . . . .</b>	<b>401</b>
<b>Bottom sediment . . . . .</b>	<b>307</b>
<b>Boundary . . . . .</b>	<b>363</b>
<b>Brazil . . . . .</b>	<b>159, 768</b>
<b>Cairo . . . . .</b>	<b>619</b>
<b>Canada . . . . .</b>	<b>768</b>
<b>Canopy . . . . .</b>	<b>376</b>
<b>Canopy simulation . . . . .</b>	<b>26</b>
<b>Cartographic . . . . .</b>	<b>592, 626</b>
<b>Cartographic database . . . . .</b>	<b>668</b>
<b>Category proportion . . . . .</b>	<b>588</b>
<b>Cattle raising management . . . . .</b>	<b>235</b>
<b>Change detection . . . . .</b>	<b>147, 260, 494, 619</b>
<b>Chauraenet . . . . .</b>	<b>566</b>
<b>China . . . . .</b>	<b>395</b>

Chlorophyll . . . . .	878
Chlorophyll a . . . . .	436
Chlorophyll density . . . . .	439
City-district-renewal . . . . .	957
Classification . . . . .	153, 209, 260, 265, 352, 418, 730, 996, 1002, 1015
Classification into maximum proportion . . . . .	588
Classification of leaves . . . . .	525
Classification, nearest neighbor . . . . .	671
Climate factors . . . . .	486
Cloud classification . . . . .	908, 1009
Cloud coverage . . . . .	986
Co-occurrence matrix . . . . .	601
CO <sub>2</sub> fixation . . . . .	439
Coal resources . . . . .	35
Coastal lagoon . . . . .	367
Colonization . . . . .	159
Color infrared . . . . .	771
Color infrared photography . . . . .	848
Computer processing . . . . .	35
Cone penetrometer . . . . .	583
Costa Rica . . . . .	768
Crop breeding . . . . .	516
Crop inventory . . . . .	848
Crown closure . . . . .	836
Cuprite mining . . . . .	72
Current character . . . . .	307
 Data acquisition . . . . .	730
Data preprocessing . . . . .	716
Databases . . . . .	153
Debris flow . . . . .	381
Deccan trap basaltic flows . . . . .	429
Deforestation . . . . .	159, 764
DEM . . . . .	153, 182, 317
Density slicing . . . . .	886
Depressions . . . . .	771
Detection . . . . .	271
Developing countries . . . . .	738
Digital image . . . . .	182
Digital image processing . . . . .	788
Digital map data . . . . .	671
Digital processing . . . . .	792
Digital terrain data . . . . .	914
Diluvium fans . . . . .	401
Disaster environment . . . . .	426
Disaster risk map . . . . .	754
Displacement analysis . . . . .	478
Dissolved organic matter . . . . .	878
DMSP . . . . .	177
Double sampling technique . . . . .	277
DTM . . . . .	754
Dual . . . . .	566
Dynamic force factor . . . . .	153
Dynamic monitoring of grassland . . . . .	40
 Ecologic environment . . . . .	307
Economic . . . . .	109, 626
Egypt . . . . .	619, 848, 873
Energy formation . . . . .	525
Enhancement . . . . .	265
Environment . . . . .	147, 520, 548, 803, 844
Estimation of mixing ratio . . . . .	986
Evapotranspiration . . . . .	150, 422, 914
Evidential reasoning . . . . .	80
Evolution . . . . .	548
Expert systems . . . . .	527, 810, 816, 969, 977, 982, 1015

<b>Feasibility</b>	376
<b>Feature detection</b>	926
<b>Feature extraction</b>	254, 592, 996
<b>Features</b>	334
<b>Field</b>	363
<b>Filter</b>	566
<b>Fire</b>	363
<b>Fire monitoring</b>	357
<b>Fishery</b>	66
<b>Fitness test</b>	588
<b>Flooding</b>	235
<b>Floristic classification</b>	570
<b>Fluorescence</b>	897
<b>Fluorescence spectra</b>	631
<b>FMT</b>	716
<b>Foliar chemical concentrations</b>	705
<b>Forest applications</b>	990 ✓
<b>Forest background</b>	836 ✓
<b>Forest fire</b>	357 ✓
<b>Forest ground data collection</b>	705 ✓
<b>Forest management</b>	643, 856 ✓
<b>Forest stand parameters</b>	661 ✓
<b>Forestry</b>	635, 661 ✓
<b>Forests</b>	363, 452
<b>Fourier analysis</b>	329
<b>Fuzzy classification</b>	964
<b>Fuzzy logic</b>	908
<b>Gaber transforms</b>	1009
<b>Geographical problems</b>	799
<b>Geological remote sensing</b>	35
<b>Geology</b>	873
<b>Geometric rectification</b>	977
<b>Geophysical data</b>	395
<b>Geoprocessing</b>	792
<b>Geostatistic</b>	175
<b>Geosystem</b>	792
<b>Germany, Heidelberg</b>	201
<b>GIS</b>	53, 95, 109, 126, 172, 197, 302, 334, 422, 643, 744, 779, 788, 792, 803, 816, 865, 935, 990, 996
<b>GIS application</b>	13, 570
<b>GIS/LIS</b>	1
<b>Global</b>	486
<b>Global environmental problem</b>	439
<b>Global monitoring</b>	177, 302, 779, 1019
<b>Gold deposit</b>	62
<b>Grassland</b>	150
<b>Grassland of Inner Mongolia</b>	40
<b>Grassland productivity models</b>	40
<b>Gray-level difference vector (GLDV)</b>	1009
<b>Grazing lands</b>	295
<b>Greening planning</b>	409
<b>Grey system</b>	137
<b>Ground water exploration and modeling</b>	429
<b>Ground water recharge structural</b>	241
<b>Growth estimation</b>	189
<b>Growth models</b>	189
<b>GVI</b>	177, 486
<b>High resolution</b>	126
<b>High resolution images</b>	935
<b>Hill forest</b>	271
<b>Histogram</b>	295
<b>History</b>	683
<b>Hot spot</b>	357
<b>Human activities</b>	166

<b>Human settlement</b>	<b>48, 109, 246, 620, 957</b>
<b>Hydrology</b>	<b>106, 150, 235, 415, 538, 901</b>
<b>Iconographie</b>	<b>548</b>
<b>Image analysis</b>	<b>106, 121, 265, 352, 520, 643, 683</b>
<b>Image classification</b>	<b>72, 935</b>
<b>Image enhancement</b>	<b>716</b>
<b>Image intercomparison</b>	<b>699</b>
<b>Image interpretation</b>	<b>8, 106, 246, 281, 302, 320, 352, 381, 415,</b> <b>527, 542, 583, 592, 626, 683, 750, 810</b>
<b>Image processing</b>	<b>18, 121, 201, 254, 260, 329, 592, 873</b>
<b>Image transformations</b>	<b>730</b>
<b>Images 3D</b>	<b>320</b>
<b>Income</b>	<b>613</b>
<b>Indicator Kringing</b>	<b>72</b>
<b>Indonesia</b>	<b>886</b>
<b>Indore</b>	<b>389</b>
<b>Information content</b>	<b>457</b>
<b>Information technology</b>	<b>844</b>
<b>Informational system</b>	<b>409</b>
<b>Inhomogeneous &amp; non-Lambertian surface</b>	<b>919</b>
<b>International cooperation</b>	<b>844</b>
<b>Interpretation</b>	<b>265, 452, 525, 668</b>
<b>Interpretation of remote sensing data</b>	<b>957</b>
<b>Introduction</b>	<b>730</b>
<b>Inverse problem solving</b>	<b>986</b>
<b>IR</b>	<b>750</b>
<b>Irrigation</b>	<b>132</b>
<b>Italy</b>	<b>803</b>
<b>Knowledge base</b>	<b>982</b>
<b>Knowledge based systems</b>	<b>990</b>
<b>Knowledge representation</b>	<b>816</b>
<b>Lagoon</b>	<b>548</b>
<b>Land applications</b>	<b>1, 246, 260, 418</b>
<b>Land area</b>	<b>142</b>
<b>Land cover</b>	<b>646</b>
<b>Land cover classification</b>	<b>570, 601</b>
<b>Land disaster</b>	<b>754</b>
<b>Land planning</b>	<b>803</b>
<b>Land use</b>	<b>295, 507, 646, 675</b>
<b>Land use discrepancy</b>	<b>507</b>
<b>Land use planning</b>	<b>197, 228</b>
<b>Landdegradation</b>	<b>53</b>
<b>Landfill covers</b>	<b>771</b>
<b>Landforms</b>	<b>583</b>
<b>Landsat</b>	<b>116, 121, 147, 260, 302, 418, 542, 619, 750, 873, 901, 914</b>
<b>Landsat 5 TM</b>	<b>95</b>
<b>Landsat classification</b>	<b>643</b>
<b>Landsat data</b>	<b>87, 254, 367</b>
<b>Landsat images</b>	<b>401</b>
<b>Landsat TM</b>	<b>132, 147, 201, 223, 317, 405, 643,</b> <b>699, 764, 865, 873, 914, 949, 1002</b>
<b>Landsat TM data</b>	<b>575</b>
<b>Landsat TM image interpretation</b>	<b>35</b>
<b>Landslides</b>	<b>478, 754</b>
<b>Leaf area index</b>	<b>223</b>
<b>Lidar</b>	<b>878, 897</b>
<b>LIF lidar</b>	<b>436</b>
<b>Louisiana</b>	<b>583</b>
<b>Madagascar</b>	<b>295</b>
<b>Mapping</b>	<b>158, 265, 302, 429, 750</b>
<b>Mapping, single photo</b>	<b>446</b>
<b>Maximum likelihood</b>	<b>575</b>

Method . . . . .	525
Methodology . . . . .	803
Mexico . . . . .	367, 613
Mineral activities . . . . .	325
Mixed pixel . . . . .	986
Mixel . . . . .	588
Model analysis . . . . .	334
Modeling . . . . .	80
Models . . . . .	197
Monitoring . . . . .	329, 376, 478, 499, 619, 844
Monte Carlo ray tracing . . . . .	26
Mosaics . . . . .	209
MSS . . . . .	147
Multisensor data . . . . .	494
Multisensor images . . . . .	699
Multisource data . . . . .	80
Multispectral . . . . .	18, 48, 126, 527, 683, 901, 1002
Multispectral data . . . . .	429
Multitemporal . . . . .	147, 738, 1002
Multitemporal analysis . . . . .	507
Multitemporal land use classification . . . . .	865
Multitemporal satellite imagery . . . . .	494
Municipal environmental planning . . . . .	201
National forest . . . . .	643
National forest inventory . . . . .	671
Natural hazard . . . . .	381
Navigation . . . . .	363
NDVI . . . . .	691
Nearest-neighbor analysis . . . . .	516
Neotectonic . . . . .	401
Net radiation . . . . .	914
Neural network application . . . . .	570
Neural networks . . . . .	209, 601, 964, 1002, 1015 177, 908
NOAA . . . . .	
NOAA data . . . . .	499
NOAA global vegetation index . . . . .	166
Non-renewable resources . . . . .	1019
NVI data . . . . .	329
Object orientated processing . . . . .	969
Ocean water chlorophyll . . . . .	230
Oil pollutions . . . . .	561
Open skies . . . . .	257
Optical properties . . . . .	709
Optical remote sensing . . . . .	189
Optical transfer operator . . . . .	919
Pantanal . . . . .	235
Paraiba Valley . . . . .	325
Pattern recognition . . . . .	260, 996
Peaceful application . . . . .	257
Peatlands . . . . .	452
Peneides . . . . .	620
Percent soil cover . . . . .	223
Percent vegetation cover . . . . .	201
Photogrammetry . . . . .	257, 478, 620, 626
Photometric function . . . . .	446
Photopedology . . . . .	320
Photosynthetic activity . . . . .	897
Phytomass . . . . .	223
Phytoplankton . . . . .	878, 897
Polarization . . . . .	722
Pollution monitoring . . . . .	281
Population estimation . . . . .	935
Post classification . . . . .	80

Potential vegetation . . . . .	166
Precipitation . . . . .	538
Predicting . . . . .	499
Predicting model . . . . .	137
Primary productivity . . . . .	439
Probability . . . . .	334
Processing . . . . .	668
Production estimation . . . . .	40
Query language . . . . .	816
Radar . . . . .	527, 661, 722, 768, 810
Radiative transfer theory . . . . .	182
Radiogeography . . . . .	525
Radiometric . . . . .	446
Radiothermal . . . . .	363
Raman scattering . . . . .	561
Rangeland . . . . .	277
Recent glacier variation . . . . .	87
Rectification . . . . .	620
Red tide . . . . .	405
Reflectance . . . . .	516, 836
Reflectance models . . . . .	691
Regional planning . . . . .	13, 228, 494
Regions . . . . .	197
Registration . . . . .	177
Regression models . . . . .	935
Relationship . . . . .	486
Remote sensing . . . . .	40, 53, 62, 101, 126, 137, 153, 158, 159, 172, 177, 182, 228, 230, 235, 241, 254, 257, 295, 315, 325, 367, 389, 395, 405, 409, 426, 452, 461, 520, 527, 542, 548, 561, 620, 631, 635, 675, 683, 716, 738, 744, 760, 771, 792, 799, 803, 848, 856, 930, 977, 982
Remote sensing applications . . . . .	8, 48, 66, 95, 106, 121, 150, 246, 302, 352, 415, 418, 538, 570, 810, 901, 1002
Renewable natural resources . . . . .	175
Renewable resources . . . . .	150, 158, 246, 254, 260, 302, 542, 635, 738, 744, 1015, 1019
Resolution . . . . .	848
Reverse problem . . . . .	919
Rock mass . . . . .	401
Roughness length . . . . .	8
Rugged terrain . . . . .	340
Rule-based . . . . .	969
Runoff forecasting . . . . .	901
Salinity . . . . .	334, 561
Sampling . . . . .	284, 635
SAR . . . . .	436, 661
Satellite image processing . . . . .	848
Satellite images . . . . .	452, 507, 620, 671
Satellite remote sensing . . . . .	844
Scattering . . . . .	722
Seismicity . . . . .	401
Seismology . . . . .	389
Semi-arid regions . . . . .	320, 418
Sensitivity analysis . . . . .	691
Sensors . . . . .	257
Sharpening . . . . .	566
Simulation . . . . .	865
Sinai . . . . .	873
SIR-B . . . . .	661
Site disturbance . . . . .	271
Slope stability . . . . .	754
Smoke detection . . . . .	357
Smoothing . . . . .	566

Snow . . . . .	901
Snowpack . . . . .	121
Socioeconomic . . . . .	613
Soil boundaries . . . . .	418
Soil composition . . . . .	709
Soil erosion . . . . .	137, 172, 788, 865
Soil mapping . . . . .	320
Soil moisture . . . . .	101
Soil salinity . . . . .	783
Soils . . . . .	709
Southern Patagonia icefield . . . . .	87
Space imagery . . . . .	352, 415
Spatial . . . . .	126
Spatial feature . . . . .	601
Spatial gray-level . . . . .	1009
Spatial heterogeneity . . . . .	516
Spatial re-classification . . . . .	646
Spatial searching . . . . .	969
Spatial variability . . . . .	930
Spatio-time . . . . .	548
Spectral . . . . .	18
Spectral classification . . . . .	783
Spectral correlation . . . . .	783
Spectral effect . . . . .	699
Spectral measurement . . . . .	35
Spectral vegetation indices . . . . .	223
Spits coastal . . . . .	548
SPOT . . . . .	271, 418, 457, 542, 592, 613, 699, 716, 873, 942
SPOT data . . . . .	575
SPOT HRV . . . . .	949
SPOT multispectral data . . . . .	159
Stability . . . . .	395
Standards . . . . .	996
Stereoscopic . . . . .	116
Strong earthquake . . . . .	499
Structural analysis . . . . .	175, 389
Structure . . . . .	525
Subset band selection . . . . .	284
Surface temperature . . . . .	142
Swedish ISY activities . . . . .	856
System design . . . . .	982
Target identification . . . . .	926
Tasselled cap . . . . .	457
Tectonic . . . . .	389
Tectonics . . . . .	116
Temperature . . . . .	376, 561
Temporal effect . . . . .	699
Terminology . . . . .	779
Terraces . . . . .	583
Terrain analysis . . . . .	583
Territory . . . . .	48
Texture . . . . .	942
Texture analysis . . . . .	601, 1009
Thematic . . . . .	1, 542, 626
Thematic mapping . . . . .	137
Thematic maps . . . . .	367
Theory . . . . .	18
Thermal . . . . .	150, 281, 750
Thermal anomaly . . . . .	499
Thermal environment monitoring . . . . .	132
Thermal infrared . . . . .	771
Thrust system . . . . .	35
TM . . . . .	619
Topographic effect . . . . .	182, 340
Topographic effect correction . . . . .	182

<b>Town planning</b>	957
<b>Triticum aestivum</b>	516
<b>Tropical</b>	367
<b>Tropical forest</b>	760, 764, 768
<b>Underground slide surface</b>	478
<b>Underlayer factor</b>	153
<b>Understanding</b>	668
<b>Unsupervised classification</b>	886
<b>Urban</b>	613, 619, 930
<b>Urban area</b>	201, 575, 646, 969
<b>Urban development</b>	494
<b>Urban environment</b>	949
<b>Urban expansion</b>	575
<b>Urban land use</b>	575
<b>Urban pattern</b>	942
<b>Urban structure</b>	926
<b>Urbanization</b>	109
<b>User service</b>	844
<b>Value system</b>	620
<b>Vector</b>	363
<b>Vegetation</b>	126, 166, 315, 376, 439, 486, 722
<b>Vegetation conservation</b>	504
<b>Vegetation indices</b>	201, 315, 709, 949
<b>Venezuela</b>	768
<b>Video camera</b>	520
<b>Visualization</b>	964
<b>Water</b>	561, 631
<b>Water applications</b>	106, 281, 307, 415
<b>Water depth</b>	307
<b>Water logging</b>	783
<b>Water management</b>	803
<b>Water management application</b>	538
<b>Water ponding</b>	132
<b>Water quality</b>	95, 367, 461
<b>WDVI</b>	691
<b>Xinjiang</b>	121
<b>Zonality</b>	315