TABLE OF CONTENTS

Volume 1

Forest Change Detection Using Multi-temporal Remotely Sensed Data in Phuluang Wildlife Sanctuary, Northeast, Thailand ................................................................. 1
Charat Mongkolsawat

Comparison of the Minnaert Constant for Different Forest Types Using Multitemporal SPOT/HRV Data ........................................................................................................ 10
Takuhiko Murakami

A Topographic Correction Approach by Using Spatial Context ........................................ 16
Wei Huang

Analysis of Changes in the Status of Forest in Nepal Over the Last 25 Years .................. 22
Santosh Tripathi

Estimating Timber Volume in a Multi-Age Eucalyptus Plantation Using Temporal Landsat ETM+ Imagery .............................................................. 23
Pranab Baruah

Burn Scar Delineation from Landsat Imagery Using Modified Chan-Vese Model .......... 31
Chaomin Shen

Biomass Extraction Using Eo-1 Hyperion Imaging Spectrometer and ALI Multi-Spectral Data for Pasoh Forest Reserve ................................................................. 40
Nor Azlina Abdullah

Linear Mixture Modeling Applied to Ikonos Data for Mangrove Mapping ..................... 41
Kanniah Kasturi

Estimation of Leaf Area Index in a Varying Age Eucalyptus Globulus Plantation from Landsat ETM+ Imagery .............................................................. 51
Pranab Baruah

Application of Remote Sensing and GIS for Tsunami Warning System ...................... 52
Kanjana Koedkurang

Tsunami Disaster Assessment of Ports in India by Using QuickBird Images ................. 59
Katsutoshi Kozai

Flood Detection of Tsunami Affected Areas Using Multispectral Images ....................... 64
Siti Yuhaniz

Utilization of Parabolic Water Wave Transformation Model for Simulation Tsunami Wave Pattern from Quickbird Data ......................................................... 73
Maged Marghany

Reconnaissance Survey of Tsunami Damage in Thailand Using Satellite Images and GPS ...................................................................................................................... 74
Fumio Yamazaki
Tsunami Disasters Monitoring in Thailand by Using Geo-Informatics Technology ........................... 75
Thanakorn Sanguantrakool

The Assessment of the Damage from Indian Ocean Tsunami on the Coastal Morphology of the Andaman Seacoast of Thailand by Remote Sensing ................................................................. 85
Absornsuda Siripong

Satellite Remote Sensing Imagery for Tsunami Relief Operation and Damage Assessment ................................................................................................. 92
Leong Keong Kwoh

Terra/ASTER Urgent Observation of Earthquake and Tsunami Damaged Area in North Sumatra, Indonesia and Data Analysis by Using NDXI ............................................................. 97
Yasushi Arakawa

Tsunami Disaster Damage Detection and Assessment Using High Resolution Satellite Data, GIS and GPS – Case study in Sri Lanka .......................................................... 104
Magsud Mehdiyev

Mapping Tsunami-Affected Coastal Aquaculture Areas in Northern Sumatra Using High Resolution Satellite Imagery .................................................................................. 116
Leong Keong Kwoh, Soo Chin Liew

Improvement of Water Balance for Revival of Spring in Kumagaya City ........................................ 121
Yamato Yamaura

Estimation of Flood Hazard and Rice Field Damage Using GIS and Temporal TERRA MODIS Images .......................................................... 122
Narong Pleerux

System Development of Remote Sensing and GIS for Field Study and Education ......................... 132
Makoto Hanayama

Research on the Making Factor of the HeatIsland in the Early-Morning of Kumagaya .......................................................... 136
Yohei Shiraki

Urban Prediction for Kathmandu Integrating GIS and RS Techniques ........................................... 143
Sudarshan Karki

Development of Agricultural GIS Development on Shonai Area in Northeast Japan Using Satellite Data ........................................................................................................................................ 144
Genya Saito

Sediment Detection by Means of Atmospherically Corrected MODIS Data ........................................ 148
Stefan Dieball

Determination of Water Quality Parameters Using Simulated MERIS Data and Matrix Inversion Method .................................................................................................................. N/A
Chih-Hua Chang

Subcatchment Extraction And Run off Simulation Utilizing Remote Sensing Data .......................... 157
Keigo Arai

Variations of Low Cloud Properties by Aerosols and Precipitation Viewed from Satellites .......................................................... 164
Kazuaki Kawamoto

Validation and Using for Study Seasonal Variation of SeaWiFS-derived Chlorophyll-a and NOAA/AVHRR-derived Sea Surface Temperature in Gulf of Tonkin ......................... 169
Tran Van Dien
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital River Basin and its Application to the Reservoir Induced Seismic Risk Assessment</td>
<td>271</td>
</tr>
<tr>
<td>Qiuwen Zhang</td>
<td></td>
</tr>
<tr>
<td>Application of GIS &amp; Remote Sensing in Tsunami Mapping in Car Nicobar Islands</td>
<td>277</td>
</tr>
<tr>
<td>Arun Kumar</td>
<td></td>
</tr>
<tr>
<td>Using Remote Sensing Technology for Detection of Electromagnetic Earthquake Precursors</td>
<td>283</td>
</tr>
<tr>
<td>Bahram Safaee</td>
<td></td>
</tr>
<tr>
<td>Geosar: A New Radar Mapping Technology for Tropical Environments</td>
<td>293</td>
</tr>
<tr>
<td>Ian J. Tapley</td>
<td></td>
</tr>
<tr>
<td>Knowledge-Based Classification of Land Cover Using GIS and Remote Sensing</td>
<td>295</td>
</tr>
<tr>
<td>Ammatzia Peled</td>
<td></td>
</tr>
<tr>
<td>Land Cover Classification Using Data Mining Strategy</td>
<td>296</td>
</tr>
<tr>
<td>Guo-jin He</td>
<td></td>
</tr>
<tr>
<td>Model Helicopter Photogrammetry: A Flexible Device for On-Line Data Collection and Processing</td>
<td>301</td>
</tr>
<tr>
<td>Armin Gruen</td>
<td></td>
</tr>
<tr>
<td>The Exploitation of Projective Geometry in Photogrammetry</td>
<td>302</td>
</tr>
<tr>
<td>Jen-Jer Jaw</td>
<td></td>
</tr>
<tr>
<td>Geometric Correction of High Resolution Satellite Data – Effect of the Distribution, Accuracy and Number of GCP</td>
<td>303</td>
</tr>
<tr>
<td>Thilantha Dammalage</td>
<td></td>
</tr>
<tr>
<td>Analysis and Application of SPOT 5 Dimap Metadata</td>
<td>314</td>
</tr>
<tr>
<td>Qin Yan</td>
<td></td>
</tr>
<tr>
<td>Towards Innovative Problem Solving Methodologies for Less Developed Countries in Asia</td>
<td>320</td>
</tr>
<tr>
<td>Norman Kerle</td>
<td></td>
</tr>
<tr>
<td>Procedure for Developing and Sharing Educational Materials on Remote Sensing</td>
<td>326</td>
</tr>
<tr>
<td>Kohei Cho</td>
<td></td>
</tr>
<tr>
<td>An Innovative System for Low Cost Airborne Video Imaging</td>
<td>333</td>
</tr>
<tr>
<td>Paul Dare</td>
<td></td>
</tr>
<tr>
<td>A Satellite Sensor Based Global Map of Irrigated Areas and Products</td>
<td>340</td>
</tr>
<tr>
<td>C.M Biradar</td>
<td></td>
</tr>
<tr>
<td>Using Penman-Monteith Method to Estimate Potential Evapotranspiration in China Taipei with Using AVHRR and MODIS Satellites Images Data</td>
<td>345</td>
</tr>
<tr>
<td>Kuo Chen Min</td>
<td></td>
</tr>
<tr>
<td>Accuracy Assessment of Different Remote Sensing Algorithms for the Estimation of Actual Evapotranspiration</td>
<td>355</td>
</tr>
<tr>
<td>Santosh Tripathi</td>
<td></td>
</tr>
<tr>
<td>Application of Multi Temporal Satellite Data for the study of Water Resource problems in Udaipur Basin, South Rajasthan, India</td>
<td>356</td>
</tr>
<tr>
<td>Narpat Singh Rathore</td>
<td></td>
</tr>
<tr>
<td>Assembly, Management and Analysis of the Spatial and Temporal Data Relating to the Water Quality for the Saigon River, Red River, Huong River and Mekong Delta Systems, Vietnam</td>
<td>N/A</td>
</tr>
<tr>
<td>David Fraser</td>
<td></td>
</tr>
</tbody>
</table>
Remotely Investigation on Rice Canopy Development by Using Hyperspectral Reflectance Data Associated With Biomass and Grain Production ................................................................. 364
Muhammad Evri

Estimation of Soil Nitrogen Status with Canopy Reflectance Spectra in Rice .................................................. N/A
XUE Li-Hong

Multi-temporal RADARSAT for Crop Monitoring .................................................................................................. 365
Surassawadee Phoompanich

Use of GIS in Prediction of Soil Electrical Conductivity for Water Management against Soil Salinity .................................................. 372
Tomoko Nakagawa

The Role of RS and GIS for Agriculture in Mongolia .......................................................................................... 381
Gendaram Sarantuya

Damage Detection Based on Object-oriented Segmentation and Classification from High-resolution Satellite Images for the 2003 Boumerdes, Algeria Earthquake ...................................................................................................................................... 385
Ken-ichi Kouchi

Application of Remote Sensing and GIS Techniques for Flood Vulnerability and Mitigation Planning in Munshiganj District of Bangladesh .................................................................................. 391
Kulapromote Prathumchai

Numerical Simulation of the Next Tsunami along Malacca Straits: Study Case of Singaporean Coastaline .......................................................................................................................... N/A
Maged Marghany

Processing of FORMOSAT-2 Imagery For Site Surveillance .............................................................................. 401
Cheng-Chien Liu

New Methods of Active Fire Detection Using MODIS Data ................................................................................ 411
Soo Chin Liew

Study of Change in Urban Land Use ...................................................................................................................... 416
Jagat Raj Paudel

Combination of Adeos II–GLI and Modis 250m Data for Land Cover Mapping of Indochina Peninsula .......................................................... 417
Nguyen Thanh Hoan

Land Cover Classification Using IKONOS Data ........................................................................................................ 425
Mitsuharu Tokunaga

Sara Sheshangosht

Analysis of the Land Cover Change in Large Irrigated Districts in the Yellow River Basin Using Time Series of Landsat and AVHRR .......................................................................... 427
Masayuki Matsuoka

Capability of IRS-PAN Images for Land Use Mapping (Case Study: Yazd City, Iran) ........................................ 432
Mehdi Tazeh

Monitoring and Discrimination for Sky Conditions Using Multi-temporal Whole Sky Imageries .......................................................... 433
Megumi Yamashita

Spatial and Temporal Distribution of High Chlorophyll and Sediment in Southeast Asian Waters .......................................................... 438
Varis Ransibrahmanakul
Monitoring Schistosomiasis Based on Remote Sensing Technology .......................................................... 439
  Tong Tang

Estimation of Precipitable Water Distribution over Land Using NOAA/AVHRR Data and GPS-derived Precipitable Water ........................................................................................................ 450
  Shin Akatsuka

The Temporal and Spatial Variation of Environmental Ecological Parameters in Southern Part of Vietnam Sea Water from Modis Image Series .......................................................... 457
  Tong Phuoc Hoang Son

Conceptual Analysis on Ricesat ........................................................................................................... N/A
  Guo Huadong

Microwave Radiometry of Rice Fields ............................................................................................... 463
  Alexander Chukhlantsev

The Application of ENVISAT ASAR Data for Rice Growth Monitoring Based on Semi-Empirical Backscattering Model ...................................................................................... 468
  Jinsong Chen

Rice Monitoring in Asia Using SAR data ......................................................................................... N/A
  Thuy Le Toan

The Primary Thoughts on the System Parameter Selection of Ricesat ........................................... N/A
  Shao Yun

GIS-based Complan Redress System for Water Supply ..................................................................... 476
  Anjana Vyasl

An Initial Establishment Sustainable Development Map by Using Geographical Information System: A Case Study in Dong Ha Town, Quang Tri Province ...................................................... 477
  Le Trinh Hai

A Spatial Decision Support System for Evaluation Various Land Uses in Built Up Urban Area .............. 483
  M. Taleai

Principal - Agent Theory Approach for Determination of Appropriate Activity Model for Cadastral Formation Updating in Nepal ................................................................................... 493
  Dev Raj Paudyal

Multicriteria GIS Analysis for Peri-Urban Agriculture: A Case Study of Hanoi Province, Vietnam ............................................................................................................................... 503
  Rajesh Bahadur Thapa

Site Selection of Thermal Power Plant Using GIS ............................................................................. 509
  Sara Beheshtifar

Integration GIS And Environment Information System for Environment Management in Central Key Economic Zone of Vietnam .......................................................................................... 516
  Long Bui Ta

Analysis and Application of the Hierarchical Metadata Framework of ISO 19115 Standard ......................................................................................................................... 526
  Hsiung-Peng Liao

A Study on Monitoring Method about Urban Commercial Area ...................................................... 535
  Ryomei Onishi

E_Land for eGov ................................................................................................................................. N/A
  Mai Cong Nguyen
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-Information Analysis and Activity Modeling for Context-based Personal Services</td>
<td>539</td>
</tr>
<tr>
<td>Hiroki Matsuda</td>
<td></td>
</tr>
<tr>
<td>Introduction to Agricultural and Rural Information System (ARIS)</td>
<td>545</td>
</tr>
<tr>
<td>Thanh Xuan Nguyen</td>
<td></td>
</tr>
<tr>
<td>Spatial Modelling of Urban Land Use and Scenarios for Global Change Impact Studies</td>
<td>549</td>
</tr>
<tr>
<td>K. S. Rajan</td>
<td></td>
</tr>
<tr>
<td>Drought Assessment Using GIS Technology in the Nam Choien Watershed, NE Thailand</td>
<td>550</td>
</tr>
<tr>
<td>Rasamee Suwanwerakamton</td>
<td></td>
</tr>
<tr>
<td>Integration of GIS and RS as a tool for land use planning in a watershed</td>
<td>559</td>
</tr>
<tr>
<td>Vu Anh Tuan</td>
<td></td>
</tr>
<tr>
<td>Application of Satellite and GIS Data for Change Detection of Land-Cover/Land-Use in Coastal Zone of Vietnam</td>
<td>565</td>
</tr>
<tr>
<td>Lai Anh Khoi</td>
<td></td>
</tr>
<tr>
<td>Ejria Saleh</td>
<td></td>
</tr>
<tr>
<td>Using the Satellite Altimetry Data to Reveal Perspective Areas of The Neon Flying Squid Fishery</td>
<td>576</td>
</tr>
<tr>
<td>Eugene Samko</td>
<td></td>
</tr>
<tr>
<td>Geomorphological Features of Kuala Terengganu Spit From Ikonos Imagery and Aerial Photographs Using Segmentation Method</td>
<td>577</td>
</tr>
<tr>
<td>Chalabi Aicha</td>
<td></td>
</tr>
<tr>
<td>Monitoring Algae Bloom in Vietnam Waters from Ocean Color Satellite Data</td>
<td>584</td>
</tr>
<tr>
<td>Tran Van Dien</td>
<td></td>
</tr>
<tr>
<td>Application of Remote Sensing in of Ocean Wave Data Collection for Engineering Purpose</td>
<td>590</td>
</tr>
<tr>
<td>Omar Bin Yaakob</td>
<td></td>
</tr>
<tr>
<td>Object-Based Extraction of Buildings from Very High Resolution Satellite Image: A Case Study of Ho Chi Minh City, Viet Nam</td>
<td>598</td>
</tr>
<tr>
<td>Tuong Thuy Vu</td>
<td></td>
</tr>
<tr>
<td>Urban Multi-Hazard Risk Analysis Using GIS and Remote Sensing: A Case Study from Kohima Town, Nagaland, India</td>
<td>603</td>
</tr>
<tr>
<td>Cees Van Westen</td>
<td></td>
</tr>
<tr>
<td>Spatial Modeling for University Campus Planning</td>
<td>612</td>
</tr>
<tr>
<td>Watinee Thavarntam</td>
<td></td>
</tr>
<tr>
<td>Contextual Classification Applied to Change Detection in a Suburb of Hanoi</td>
<td>622</td>
</tr>
<tr>
<td>Pham Van Cu</td>
<td></td>
</tr>
<tr>
<td>Study of Using SAR/InSAR and DETEDLevel-2 DEM for Land Subsidence Investigation in Bangkok Area</td>
<td>623</td>
</tr>
<tr>
<td>Thongthit Chayakula</td>
<td></td>
</tr>
<tr>
<td>Practical Use to Satsuma Mandarin Cultivation of the Red Edge Wavelength of Leaves</td>
<td>624</td>
</tr>
<tr>
<td>Ryuji Hyodo</td>
<td></td>
</tr>
</tbody>
</table>
Making a Land Use Map and Estimation of Agricultural Biomass Distribution in Northeast Thailand
Shigeo Ogawa

Land Moisture Estimation at Agricultural Land Using MODIS Data Based on NDSI, NDVI, and NDWI Indices
Dede Dirgahayu

Seasonal and Long-Term Analysis of Land Cover/Use Change in Barotze Floodplain, Zambia
Kei Mizuno

Estimation of Area of Paddy Field Using Vegetation and Soil Indices Derived from MODIS Data - A Case of Heilongjiang Province, China
Satoshi Uchida

Projecting Food Demand and Supply: Using Economic and GIS Model
Kenji Sugimoto

Use of Optical and Radar Satellite Data in Rice Cropping Systems Mapping and Rice Area Estimation in Nueva Ecija, Philippines
Magsud Mehdiyev

A Study on Pasture Land Degradation in Mongolia Using RS
Maidarjav Ganzorig

Estimation of the Farmland Water State from Temperature Range Analysis of MODIS LST data in Mekong River Basin
Atsushi Rikimaru

Using Fourier Analysis and Wavelet Transforms in Landuse Classification
Santosh Tripathi

Establishing The DEM of Waisanding Offshore Sandbar By Airborne Lidar
Wei-Chen Hsu

Analysis of LIDAR Systematic Errors and Strip Adjustment
Yi-Hsing Tseng

Development of Portable Aerosol LIDars
Wei Gong

Geometric Correction of QuickBird Image by Using Airborne LIDAR Data
Wei-Chen Hsu

Corner Features for Unifying Coordinate Systems of Multiple LIDAR Stations
Jaan-Rong Tsay

Land Cover Land Use Classification Using Multi-Sensor, Multi-Temporal Satellite Data; Mekong Delta, South Vietnam
Jagath Rajapaksha

Volume 2

Application of Multitemporal Interferometric SAR Data for Land Cover Mapping in Mongolia
Damdinsuren Amarsaikhan

Alkaline Ion Concentrations in Salt-Effect Agricultural Soil in the Coastal Area of the Red River Delta, Northern Vietnam
An Application of GIS in Soil Study
Dinh Thai Hung
Salinity Mapping Using Geopedologic and SoilLine Approach .................................................. 700
Dhruba Pika Shrestha

A Multi-Sensor Approach for Desertification Monitoring in the Coastal Areas of Vietnam ................................................................. 706
Hoang Viet Anh

An Efficient Optimum Size Determination of Artificial Neural Network for Satellite Image Classification ........................................................................... 707
Joel Bandibas

Semi-Supervised Technique to Retrieve Irrigated Crops from Landsat ETM+ Imagery for Small Fields and Mixed Cropping Systems of South Asia .............................................. 708
Nilantha Gamage Sri Lanka

Determining the Most Suitable Classifier (Algorithm) of Supervised Classification of Satellite Images for Land Use Mapping........................................................................ 709
Seyed Zeynalabedin Hosseini

Study on Extraction of Agricultural Crop Information by Hyperspectral Data A Key Study of Shunyi Area, Beijing ................................................................. 710
Liang Liu

GIS Application for Spatial Economic Valuation in Rural Thailand............................................ 717
Surassawadee Phoompanich

A Study on the Sharing of Socio-Economic GIS Data Among Regions........................................... 718
Ho-Yong Kim

FARMNET-AGIS Application of an Automatic Wireless Declaration and Monitoring System for Perished or Diseased Animal Collection Vehicles in Taiwan ........................................................................ 725
Chun-Jung Hsu

Mapping Nitrogen Concentrations in Shallow Groundwater Under Intensive Farming in Northern Vietnam .................................................................................. 731
Mai Van Trinh

On-Line Land Portal System Using AerialPhotographs and Cadastral Data................................. 741
Tong Lim

Estimation of Solar Radiation and Photosynthesis Active Radiation Using Automatic Capturing Digital Fisheye Camera ................................................................. 750
Koki Iwao

Detecting of a Warm Slope Zone in Mountain Forests from Landsat ETM+ Data and Dems ................................................................. 755
Choen Kim

Grid-Based Aerosol Remote Sensing Over Land Using Dark Target Algorithm from MODIS Data............................................................................................................. 756
Jiakui Tang

Maximum Cross Correlation (MCC) Methodfor Extracting Advective Current Fields in Southern Part of Coastal Water of Vietnam........................................................................ 762
Tong Phuoc Hoang Son

Advanced Technology For Assessment of Soil Hydrological Regimes Using Microwave Multichannel Passive (Radiometric) and Active (SAR) Microwave Measurements ............................................................................ 767
Sergey Golovachev
GPS Radio Holography: Application to Remote Sensing of the Atmospheric and Ionospheric Processes
Pavelyev Alexander

The Development of Radiophysical Methods for the Polarization (Including Stereo) Images Acquisition in Millimeter Range Related to Problems of Objects Recognition, Navigation, Emergency Management, Security Control and Antiterroristic Activity
Sergey Golovachev

Terrain Change Detection Using SAR Interferometry
Van Anh Tran

3D Panoramic Mosaiciking in 3D Image Mosaicking for Far-Range Urban Area Visualization
Jaechoon Chon

RazakSAT – Technology Advent in High Resolution Imaging System for Small Satellite
Norhan Mat Yusoff

Destriping Hyperion Imagery Using Spline Interpolation
Fuan Tsai

Application of Feature Selection and Classifier Ensembles for the Classification of Hyperspectral Data
Yasser Maghsoudi

Frequency Analysis for Hyper-spectral Images and Its Application in Edge Extraction
Huy Cuong Do

Spatial-Spectral Contextual Image Analysis of Hyperspectral Data to Aid in the Characterisation of Hydrothermal Alteration In Epithermal Gold Deposits
Freek Van der Meer

Pure and Mixed Pixel Separation to Improve Classification Accuracy of The Hyperspectral Imagery
Barat Mojaradi

Fusion of Rotation-Invariant Texture Features for Scene Recognition
Yindi Zhao

A Generic Line Based Model For Georeferencing of High Resolution Satellite Imagery
Farhad Samadzadegan

Reconstruction of 3D Building Structures From IKONOS Images Through Monoscopic Line and Shadow Analysis
Tae-Yoon Lee

Very High Resolution Satellite Image Triangulation
Chinh Ke

Super-Resolution Mapping Using Hopfield Neural Network With Panchromatic Image
Nguyen Quang Minh

Development of Data Integration and Information Fusion Infrastructure for Earth Observation
Mikio Takagi
Image Fusion on the basis of multi-resolution analysis grey modulation .................................................. 870
Hui Lin

Fusion of LIDAR Data and Large-scale Vector Maps for Building Reconstruction .......................... 871
Liang-Chien Chen

Fusion of DEM And Satellite Imagery for Surface Area Calculation: Development of an Algorithm and a Tool For GRASS GIS ................................................................. 878
Junichi Susaki

Fusion of LIDAR Point Clouds and Large Scale Vector Maps for the Reconstruction of 3-D Road Models ................................................................................................. 887
Liang-Chien Chen

Using Satellite Data and GIS for Determination of Forest Fire ....................................................... 895
Apinan Kantirach

Extraction of Parameters from Remote Sensing Data For Environmental Indicies For Urban Sustainability .............................................................. 906
Junichi Susaki

Identification of Air Pollution Potential Areas and Its Temporal and Spatial Pattern of the City of Colombo – Applying GIS and RS .......................................................... 916
Lasantha Manawadu

Measuring Ground Subsidence in Shanghai Using Permanent Scatterer InSAR Technique .................. 927
Peter Damoah-Afari

Spatial and Temporal Changes of the Urban Heat Island in Bangkok Metropolitan Region (BMR) .............................................................................................................. 937
Lasantha Manawadu

Study of Landscape Fragmentation to Characterize of Urban Sprawl ............................................ 938
Mona Lacoul

Spatial Database of the Northern Area of Yellow River for Research of Sediment Discharge .................. 943
Jun Byungdug

Registration of 3rd Dimension: the Context of Nepalese Cadastre ..................................................... 951
Rabin K. Sharma

Integrating Imagery Data into Spatial Databases ............................................................................. 956
Qian Liu Usa

Data Creation and Analysis for Ground water using Spatial Information Technique ............................. 964
Hisao Ito

Local and Regional Access to Global data .......................................................................................... 968
Børre Pedersen

A study on an efficient making method of detailed urban dataset by spatial integration of yellow-page data and digital maps for urban analysis ................................................. 969
Yuki Akiyama

Web-based Thematic Map Service in OpenGIS Environment ............................................................ 979
Jung-Hong

The development of web portal for supporting geospatial data sets of Tsunami impact areas .................. 989
Sanphet Chunithipaian
A New Insight to GIS Using Mapviewer And Spatial Data .......................................................... 995  
Bhupendra Singh Purawat

Preliminary Analysis for Constructing Geocoder Service in China Taipei .................. 1003  
Hui-Ting Huang

Research and development data management system by using geospatial information for Archaeological studies ............................................................ 1011  
Yoshinori Iwamoto

Improvement of DEM Quality Derived by Interferometric SAR Using Multiple Baseline Data Pairs ................................................................. 1019  
Shoji Takeuchi

Automatic Generalization of Digital Building Models ......................................................... 1025  
Jiann-Yeou Rau

Dem Generation Using Sar Interferometry Technique Based On Ers Sar Images ........ 1031  
Le Van Trung

Effect of Speckle Reduction Filter and Multi-Window Image Matching on Stereo SAR ........................................................................................................ 1037  
Shoji Takeuchi

Building Reconstruction From LIDAR Data Using Iterative Regularization Approach ........................................................................................................ 1043  
Tee-Ann Teo

Integrated System ADS/GPS/INS For Direct Georeferencing ............................................. 1050  
Chinh Ke

Total Precipitable Water Estimated from Split Window Algorithms Using Meteorological Satellite Data ............................................................... 1058  
Kwang-Mog Lee

Thai-German Technical Cooperation - Remote Sensing for Environmental Geology and Regional Planning .......................................................... N/A  
Hans Friedrich Kuehn

Satellite Based Oil Spill and Ship Detection Service from National Towards Pan-European Multi-User Services ......................................................... 1067  
Børre Pedersen

Investigation of Urban Temperature Changes Using Multitemporal Thermal Infrared Images ................................................................................................ 1074  
Damdinsuren Amarsaikhan

Objects Detection in Traffic Scenes with Background Occlusion by Using Multiple Laser Range Scanners ............................................................... 1078  
Kazuyoshi Iwata

An Achievements and Limitations Evaluation on M3RS Measurement System ............. 1083  
Mingsen Lin

Combining Multiple Laser Range Scanners asnd Sensor-Networks for Real Time People Detection and Its Application to an Energy Saving System For Air Conditioning Control .......................................................... 1091  
Kyoichiro Katabira

Space Instrument Technologies and Current Programs Alcatel Alenia Space, European Leader in Space Solution and Earth Observation Technologies .......... 1097  
Eric Zammit
Near Equatorial Orbiting of Razaksat for Rapid Imaging Area in the Equatorial Region
Aida Hayati Mohd Hassan ................................................................. 1098

Development of Walking Observation System to Log Personal Migratory Behaviors
Masaki Saito .................................................................................... 1099

Automatic 3-D Line-based Matching and Spatial Similarity Transformation
Jen-Jer Jaw ...................................................................................... 1105

Laser Scanner Measurement for Monitoring Landslide Displacement
Tomoya Sakai .................................................................................. 1115

The Use of PCA for Moving Objects Tracking on the Image Sequence
Yun-Te Su ......................................................................................... 1122

An Estimation Method of Rice Growth With a Chromaticity Diagram Using
by Digital Camera
Onodera Kazumoto ........................................................................... 1126

Terrain Change Detection Using Ground-based LiDAR Data
Kuo-Hsin Hsiao ............................................................................... 1132

A Removal Method of Path Radiance Using Multivariate Analysis
Kim Jong-Hwan .............................................................................. 1138

Digital Image-In-Image Watermarking of Remote Sensing Image
J Panvavaporn ................................................................................. 1145

A Hierarchical Approach to Automated Registration of High Resolution Satellite Imagery for Change Detection
Chunsun Zhang .............................................................................. 1151

Development of 3D Structure Measurement System Using Laser Scanning Data and CCD Sensor
Kazuyuki Honma .............................................................................. 1157

Study on the Grasp of Forestry Situation Using IKONOS Data and Airborne LiDAR Data
Yuka Takahashi ............................................................................... 1162

Development of a Web-based MODIS Products Distribution System
Vivarad Phonekeo .......................................................................... 1168

Updating Topographic Map Using SPOT 5 Satellite Imagery
Chu Hai Tung ................................................................................... 1173

Yuri Gulyaev ................................................................................... 1180

Speckle Filtering of NASA/JPL POLSAR C and L-band Data with Structural Feature and Scattering Property Preservation
Timo Bretscheide ............................................................................ 1181

Availability of QuickBird for land resource management in northern Laos
Yukiyo Yamamoto .......................................................................... 1182

Potential Applications of THEOS Satellite
Monchaya Piboon ........................................................................... 1187

Correction of IKONOS and QuickBird data for orthophoto generation
Ireneusz Ewiak ................................................................................. 1194
Singularity Mitigation in Automated DEMExtraction from IKONOS Images through Voxel Coloring and Global Optimization ................................................................. 1201
Taejung Kim

Fusion of LIDAR Data and High Resolution Images for Forest Canopy Modeling ................................................................. 1210
Liang-Chien Chen

A new initiative of research and applications: Cloud-prone and Rainy areas Remote Sensing (CARRS) ........................................................................................................... 1217
Limin Yang

Land Management Training Centre: Journey of Surveying and Mapping Studies in Nepal ................................................................. 1218
Shree Prakash Mahara

Space Technology Applications In Nepal: Potential For Development ................................................................................................. 1225
Sudarshan Karki

Tools for Promoting Remote Sensing to Conservation Practitioners ................................................................. 1226
Ned Horning

Framework and Implementation of ALOS Pilot Project in Thailand ................................................................................................. 1230
Varaiporn Sintop

Need-Aware Based Calendar System: A Context-Aware Agent Based Calendar Service Approach to Need Indentification ................................................................................................. 1235
Ta Duy Thang

Open Source Flash/SWF Approach for Web GIS Mapping ................................................................................................. 1240
Xianfeng Song

Server-Side Data Selection Framework for GeoMobility Service Environment ................................................................................................. 1241
Chin-Sung Yang

The Software “KDM” Used by WebGIS Technology for Educational Parts and Its Possibility ................................................................................................. 1249
Jun Byungdug

Mapping Spatial Variability of Sediment Yields in a Small Watershed Using GIS ................................................................................................. 1255
Habib-Ur-Rehman Mughal

Change Detection in Multispectral Imagery from Multisensor ................................................................................................. 1262
Lu Zhang

Building Change Detection Algorithm Using Aerial Imagery and Precise 3-D Data ................................................................................................. 1269
Masafumi Nakagawa

The Affecting Factors and Recent Development of the Application of InSAR Technology ................................................................................................. 1270
Guiwu Wang

Automatic Processing of InSAR and Introduction of Its Application Studies ................................................................................................. 1271
Tomonori Deguchi

Designing an Earth Through Satellite Viewing Simulator with Useful Application ................................................................................................. 1277
Mehrzad Nasirean

Atmospheric Correction for MODIS 250 Meter Data: Examples from The Gulf of Tonkin ................................................................................................. 1282
Varis Ransibrahmanakul

Multi-variable Analysis Applied to Evaluate the Primary Health Care Service Repartition in Hanoi City ................................................................................................. 1283
Xuan Huy Chu
A New Approach for Map Generalization Based on Shape Distortion .................................................. 1291
Min-Hsin Chen

Microwave Radiometry Technology for the Nature-Society System Biocomplexity Assessment ................................................................. 1296
Vladimir Krapivin

House Detection from High Resolution Satellite Image by Using Double Window .............. 1303
Tsukasa Hosomura

Improving Classification Accuracy by Combining Spectral and Texture-Based Feature Spaces in High Resolution Multi-Spectral Images .................................................. 1306
Hamed Ashoori

Suitable Type of Ground Control Point for High-Resolution Satellite Imagery .................... 1316
Takeshi Miyata

Investigation into the Positioning Accuracy of Rocsat-i Imagery Among Geometric Transformation Models .................................................. 1323
Jen-Jer Jaw

Experiments of Super-Resolution Utilizing Sub-Pixel Shifted Overlapped Images ................. 1324
Haruhisa Shimoda

Geometric Accuracy Testing of Geo-Rectified Images Using Orbital Parameter Model and Rational Function Model .................................................. 1330
Somayeh Yavari

Real-Time Monitoring System for Grass and Animal Management of Steppe in Inner Mongolia .................................................................................. 1336
Tsuyoshi Akiyama

Assessment of Impact on Landscape Development to Ecological Service Values and Goods Using Integrated Remote Sensing and GIS Techniques .................................................. 1344
Mazlan Hashim

Satellite Based Spatio-Temporal Environmental Momentum in Thai Binh Province, Vietnam .................................................................................. N/A
Rajesh Bahadur Thapa

Using Lidar to Assess Landscape Scale Biodiversity .............................................................. 1358
Naoko Miura

Combating Land Degradation and Desertification in Drylands of India Using Remote Sensing and GIS .................................................................................. 1364
Tej Singh Chouhan

Change Detection Analysis in Wetlands Using JERS-1 Radar Data: Tonle-Sap Great Lake, Cambodia .................................................................................. 1365
Ian J. Tapley

Thi Hong Diep Dao

Accuracy Enhancement of GPS Positioning by Changing Antenna Height .............................. 1381
Tetsuhiko Yoshimura

Volume 3

The Remote Sensing Satellite Navigation System on the Basis of Global Positioning System GPS And GLONASS .................................................................................. 1386
Asghar Ebrahimi
Study on Developing Regional Grid-Based Geoid Using GPS and Levelling Data ........................................... 1387
Lao-Sheng Lin

GPS Performance for Various Applications ................................................................. 1394
Thi Hong Diep Dao

Diurnal Variation of Precipitable Water Vapor Based on GPS Observations .............. 1400
Sununtha Kingpaiboon

The Extraction of the Watershed Boundary from DEM Using a Cellular Automata
Method ....................................................................................................................... 1406
Cheng-Lien Fan

Toward Automatic Reconstruction of Buildings from Multi-Source Data .................. 1412
Yunsoo Choi

Automatic 3D Feature Extraction from Structured LiDAR Data ................................ 1421
Miao Wang

Locating Reservoir/Lake and Enclosed Islands in SRTM DEM Data Using
Boundary Obtained from Landsat Imagery Via Active Contour Method .................. 1430
Chaomin Shen

Preliminary Investigation for the Excavation of the Ancient Amazon Civilization
from JERS1/Sarandaster Images .................................................................................. 1439
Kohta Imai

Mineralogical and Chemical Compositon for the Iron and Sulphid Deposits,
Discovered in Sirghaya Area-Syria, and Their Position by Interpretation of Space
Images ......................................................................................................................... 1440
Mohamad Rukieh

Environmental Remote Sensing Information Technology in Archaeology and
Cultural Heritage Conservation ................................................................................. 1442
Changlin Wang

Socioeconomic and Environmental Change in Pokhara Valley, Nepal: A Study
Using Satellite Remote Sensing and Other Information ........................................... 1449
Krishna Pahari

Knowledge Acquisition in C-Band and L-Band Radar Frequencies .......................... 1454
Damdinsuren Amarsaikham

Geometric Inference of Building Boundaries by Fusing Lidar Data Set with Aerial
Photographs ................................................................................................................. 1458
Jen-Jer Jaw

Destriping MODIS Data by Facet Model and Histogram Matching ............................ 1466
Preesan Rakwatin

Combining Level-of-Details on Terrain Meshes and Texture Images for
Landscape Visualization ............................................................................................... 1471
Fuan Tsai

Robustness in the Estimation of BRDF Model Parameters Using Limited Number
of Observations ........................................................................................................... 1477
Junichi Susaki

Investigating of Geometrical and Asymptotical Properties of Multivariate Data in
High-Dimensional Space ............................................................................................ 1486
Barat Mojaradi

Distance Education for Developing Countries .................................................................. N/A
Shunji Murai
Gi-Net Partnerships In Education - From “Building Capacity” To “Building On Capacity” ................................................................. N/A

Sjaak J.J. Beerens

Current status of e-Learning at AIT ................................................................................................................................. N/A

Xiaoyong Chen

Remote Sensing Training at GeoInfo in Vietnam .................................................................................................................. N/A

Nguyen Dinh Duong

Cooperation of ACRS and ISPRS for Education .................................................................................................................. N/A

Kohei Cho

Ionospheric Disturbances during of Thsunamigenic Earthquake on Navigation System Data ......................................................... 1487

Vladimir Smirnov

Assessment of Water Requirement for Agricultural area by Using GIS .................................................................................. 1495

Chanida Suwanprasit

Spatial Modeling for Soil Erosion Risk in Upper Chi Basin, Northeast Thailand ................................................................. 1503

Sathaporn Paiboonsak

The Design and Implementation of Quantitative Remote Sensing Supporting System .................................................................. 1509

Qiming Qin

Disaster Management Using GIS and Remote Sensing Technologies: A Case Study in China Taipei ........................................ 1510

Pai-Hui Hsu

A Three Dimensional Modeling and Simulation Platform Development for Digital City ..................................................................... 1520

Qiuwen Zhang

Development of the Satellite Image Data Web System In KARI for the ASEAN+3 Satellite Image Archive for Environment Study Project ......................................................................................................................... 1521

Dong-Han Lee

Utilizing 3D Web-based GIS for Highway simulation ............................................................................................................. 1524

Hyun Choi

WebGIS Disaster Relief System .................................................................................................................................................. 1528

Yong-Cheol Suh

Self-Information Project: A Study on Context-aware and Proactive Supports Based on Semi-Automatic Activity Logging and Predefined Schedules .................................................................................. 1532

Hiroshi Kanasugi

Risk Evaluation on the Impact of Deer Overabundance Consisting with Global Worming and Natural Park Management Policy, A Case Study on Tanzawa Mnts., Central Honshu, Japan ................................................................................................................................................ 1538

Masanobu Yamane

Air Pollution Monitoring Using Nanotechnology Based Solid State Gas Sensors And GIS Modeling ...................................................................................... 1544

Onnprapa Pummakamchana

Soil Water Modeling for Making Decision in Cultivation Using Geographic Information System .................................................................................................................. 1545

Sakda Homhuan
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluation of Biodiversity Conservation Measures in Chiba Prefecture Based on Analysis of Distribution of Endangered Plant Species</td>
<td>1553</td>
</tr>
<tr>
<td>Tatsunori Ishitsuka</td>
<td></td>
</tr>
<tr>
<td>Estimate Model of Suspended Sediments in Yangzi River</td>
<td>1559</td>
</tr>
<tr>
<td>Cen Yi</td>
<td></td>
</tr>
<tr>
<td>Hyperion Hyperspectral Imagery on Geological Mapping in Central Mountain Range of China Taipei: Preliminary Results</td>
<td>1567</td>
</tr>
<tr>
<td>Wei-Su Chang</td>
<td></td>
</tr>
<tr>
<td>The Study of Coastal Topographic Changes on the Haeundae Beach of Korea Using Aerial Photo</td>
<td>1577</td>
</tr>
<tr>
<td>Ji-Yeon Yang</td>
<td></td>
</tr>
<tr>
<td>Land Use Change in Mangrove Areas of Southern Vietnam Using Satellite Images</td>
<td>1586</td>
</tr>
<tr>
<td>Yasuyu Arizumi</td>
<td></td>
</tr>
<tr>
<td>Comparison of Pixel-Based and Object-Based Classifications of High Resolution Satellite Data in Urban Fringe Areas</td>
<td>1590</td>
</tr>
<tr>
<td>Noritoshi Kamagata</td>
<td></td>
</tr>
<tr>
<td>Effective Band Combination for Land Cover Classification Accuracy Using MODIS Data</td>
<td>1596</td>
</tr>
<tr>
<td>Masato Saito</td>
<td></td>
</tr>
<tr>
<td>Development of Environmental Dataset of Taklamakan Desert by TERRA/AQUA MODIS Data</td>
<td>1603</td>
</tr>
<tr>
<td>Yoshinari Oguro</td>
<td></td>
</tr>
<tr>
<td>Burned Forest Area Mapping from SPOT 4 Using Independent Component Analysis</td>
<td>1613</td>
</tr>
<tr>
<td>JongGyu Han</td>
<td></td>
</tr>
<tr>
<td>Land Use Change Around Coastal Zone in Tuvalu Funafuti Atoll</td>
<td>1614</td>
</tr>
<tr>
<td>Yuji Kuwahara</td>
<td></td>
</tr>
<tr>
<td>Global Land Cover Mapping Using ADEOS-II/GLI Global Mosaic Data</td>
<td>1618</td>
</tr>
<tr>
<td>Noriko Soyama</td>
<td></td>
</tr>
<tr>
<td>A Case Study of Spatial Analysis for Environmental Monitoring</td>
<td>1626</td>
</tr>
<tr>
<td>Kazuyo Hirose</td>
<td></td>
</tr>
<tr>
<td>Identifying Declining Forests - A Case of Beech Forests in Tanzawa Mountain</td>
<td>1631</td>
</tr>
<tr>
<td>Hiroshi Sasakawa</td>
<td></td>
</tr>
<tr>
<td>Classification Using Multi Temporal MODIS Data With Köppen Climate Chart</td>
<td>1635</td>
</tr>
<tr>
<td>Naoki Ishitsuka</td>
<td></td>
</tr>
<tr>
<td>Application of Remote Sensing and GIS for Mapping Suitable Oil Palm Area in Thailand: Case Study in Surat Thani Province, Southern Thailand</td>
<td>1641</td>
</tr>
<tr>
<td>Somjit Katib</td>
<td></td>
</tr>
<tr>
<td>Precise Estimation of Rice Growth Status Using Multi-Temporal RADARSAT Images</td>
<td>1645</td>
</tr>
<tr>
<td>Kazuyoshi Takahashi</td>
<td></td>
</tr>
<tr>
<td>Estimation of Net Primary Production in Paddy Fields of Japan Using Satellite Data</td>
<td>1651</td>
</tr>
<tr>
<td>Yuki Omura</td>
<td></td>
</tr>
<tr>
<td>Rice Crop Monitoring Using ENVISAT-1/ASAR</td>
<td>1660</td>
</tr>
<tr>
<td>Yuzo Suga</td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Page</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Prediction of Grain Quality and Yield of Winter Wheat Using Ground-Based Spectroradiometer Data</td>
<td>1666</td>
</tr>
<tr>
<td>Shinya Tanaka</td>
<td></td>
</tr>
<tr>
<td>Semi-Supervised Technique to Retrieve Irrigated Crops from Landsat ETM+ Imagery for Small Fields and Mixed Cropping Systems of South Asia</td>
<td>1671</td>
</tr>
<tr>
<td>Nilantha Gamage</td>
<td></td>
</tr>
<tr>
<td>Expert Classification for Age Class Identification of Oil Palm Plantation in Krabi Province</td>
<td>1681</td>
</tr>
<tr>
<td>Jarunya Kitiphaisannon</td>
<td></td>
</tr>
<tr>
<td>Temporal Changing Pattern Analysis of Rice Paddy Using Logistic Regression</td>
<td>1692</td>
</tr>
<tr>
<td>Chi-Chung Lau</td>
<td></td>
</tr>
<tr>
<td>LANDSAT Application and ClassificationDisaster Area on Yom River Basin</td>
<td>1693</td>
</tr>
<tr>
<td>Vicharn Amarakul</td>
<td></td>
</tr>
<tr>
<td>Application of Geostatistical Indicator Simulation to Assessment of Spatial Uncertainty Distributions in Remote Sensing Data Classification</td>
<td>1702</td>
</tr>
<tr>
<td>Kwang-Hoon Chi</td>
<td></td>
</tr>
<tr>
<td>The Vector Of Wavelet –Fractal and Application in The Satellitic Remote Sensing</td>
<td>1706</td>
</tr>
<tr>
<td>Chen Gangyi</td>
<td></td>
</tr>
<tr>
<td>Analysis of Seismogenic Damage in Bam, Iran, Using Envisat ASAR Data</td>
<td>1711</td>
</tr>
<tr>
<td>Norman Kerle</td>
<td></td>
</tr>
<tr>
<td>RS/GIS Application for Community-Based Disaster Prevention in Central Vietnam</td>
<td>1721</td>
</tr>
<tr>
<td>Kei Mizuno</td>
<td></td>
</tr>
<tr>
<td>Volcanic Smoke Monitoring of Miyake-Jima With MODIS Data Using Spatial Information</td>
<td>1726</td>
</tr>
<tr>
<td>Yasutaka Kuramoto</td>
<td></td>
</tr>
<tr>
<td>Investigating Feature of Urban Surface Temperature With Distribution of Land Cover Types in Ho Chi Minh City Using Thermal Remote Sensing</td>
<td>1732</td>
</tr>
<tr>
<td>Tran Thi Van</td>
<td></td>
</tr>
<tr>
<td>Measuring and Mapping Urban Sprawl in China: A MODIS-SVM Approach</td>
<td>1737</td>
</tr>
<tr>
<td>Tiyan Shen</td>
<td></td>
</tr>
<tr>
<td>The Application of DMC Data in Land Use Change of Beijing Area</td>
<td>1738</td>
</tr>
<tr>
<td>Fengyun Mu</td>
<td></td>
</tr>
<tr>
<td>Detection of Forest Change in Taiwan Using Remotely Sensed Images</td>
<td>1742</td>
</tr>
<tr>
<td>Bin Chang</td>
<td></td>
</tr>
<tr>
<td>Evaluation of The Relationship Between NDVI nd LAI in Cool Temperate Deciduous Forest</td>
<td>1746</td>
</tr>
<tr>
<td>Masayasu Maki</td>
<td></td>
</tr>
<tr>
<td>Classification of Old-growth Cypress in Chilan Mountain Using Photogrammetry and Remote Sensing</td>
<td>1752</td>
</tr>
<tr>
<td>Hsiao-wei Juan</td>
<td></td>
</tr>
<tr>
<td>A Cross-Biome Comparison for Net Ecosystem Exchange Using Satellite Images and Climate Data</td>
<td>1759</td>
</tr>
<tr>
<td>Toru Sakai</td>
<td></td>
</tr>
<tr>
<td>Forest Damage Detection Using High Resolution Remotely Sensed Data</td>
<td>1764</td>
</tr>
<tr>
<td>Hitoshi Taguchi</td>
<td></td>
</tr>
</tbody>
</table>
Estimation of Net Ecosystem Productivity with Visible, Near Infrared and Thermal Infrared Bands of MODIS Data

Takehiko Yamaji

Extraction of Bamboo Distribution Area Using The Multiresolution Merged Image

Fuping Zhang

Microwave Transmissivity of Forest Canopies

Alexander Chukhlantsev

Estimation and Validation of Net Primary Production of Vegetation Using ADEOS-II/GLI Data

Kanako Muramatsu


Tam Hoang Van

Trend Analysis of Surface Emissivity Ratio on Frozen Lakes

Hideyuki Tonooka

The Measurement of Coastlines Using SPOT-5 High Resolution Satellite Images

Chi-Farn Chen

The Abilities of Quick Bird Satellite Image in Large Scale Topographic Map Updating - Case Study of Ha Noi

Tran Hong Hanh

Accuracy Analysis of A Ground-Based Lidar Data SET for 3-D Building Model

Hao-Hsiung Huang

The Effect of Applying Precise Ephemeris and Multiple Ground Stations of GPS on Computing Airborne Lidar Trajectories

Wei-Chia Hung

Thailand Earth Observation System (THEOS): A New Dimension of Thailand Remote Sensing

Monchaya Piboon

Simulation of 3D Urban Landscape With Textures and Trees By Remote Sensing

Kana Ogawa

Evaluation of Shuttle Radar Topography Mission (SRTM) Data Digital Elevation Model Products for Enrico Paringit, Philippines

Enrico Paringit

A Comparison of Wavelet and Fourier Analysis for Image Change Detection

Tong Hui

A Method for Object-Based Change Detection Using Middle-Resolution Satellite Imagery and GIS

Hideyuki Tonooka

Subpixel Change Detection on Multi-temporal Remote Sensing Images Based on Textura, Spectral and Abundance Features

Chia-Chin Hsieh

A 2-D Edge Detection Using Hilbert-Huang Transform

Min-Wen Chao

Automatic Extraction of 3-D Building Roofs by Data Snooping from LIDAR Data

Shih-Hong Chio
Landslide Recognition by Wavelet-based Textual Feature Extraction and Statistical Feature Fusion ................................................................. 1850
  Li-Wei Chang

Extraction of Spatial Frequencies Using Empirical Mode Decomposition for Classification ............................................................................................................ 1851
  Min-Wen Chao

Mapping Dominant Vegetation Communities in Meili Snow Mountain, Yunnan Province, China Using Satellite Imagery and Plant Community Data ................................................................. 1852
  Robert De Wulf

Impact of Local People on Plant Biodiversity in Ben En National Park, Thanh Hoa, Vietnam .......................................................................................................................................... 1862
  Hoang Van Sam

Temporal and Spatial Analysis of Sea Surface Temperature and Thermal Fronts in The Korean Seas By Satellite Data ................................................................. 1868
  Hong-Joo Yoon

"Using Remote Sensing Data for Coastal TT-Hue, Vietnam" Providing Information for Integrated Coastal Zone Management ................................................................. N/A
  Nguyen Xuan Lam

Education Pedagogy for Spatial Science Praxis ...................................................................................................................................... 1875
  F. R. Young

Effect of Atmospheric and Surface Properties on the Retrieval of Aerosol Optical Depth from Geostationary Satellite ................................................................. N/A
  Kim Jhoon

Realistic Building Texture Using Video Mosaic .................................................................................................................................................. 1885
  Cheng-Hsuan Chen

Status of renewaling Earth Observation Information System into PC LINUX environment .................................................................................................................................. 1891
  Yoshikazu Miyano

Management of Operation and Mission in Ground Processing System for Disaster Monitor Constellation+4 ..................................................................................... 1892
  Wanjun Zhang

Development of Compositing Algorithm Using Spectrum Information for MODIS Data Park ........................................................................................................... 1893
  Jong Geol

Line Feature Matching between Object Space and Image Space ......................................................................................................................... 1899
  Nei-Hao Perng

The Use of Fisheye Lens in Creation of 3D City Model ................................................................................................................................. 1905
  Michal Kedzierski

The Design and Implementation of Soil Sampling Information System Based on 3S ......................................................................................................................... 1906
  Yunping Chen

Application of GIS and Remote Sensing in Assessment of Desertification to Propose Regional Model ...................................................................................................... 1907
  Adel Sepehr

A Southeast Asia Web-based GIS Fire Mapping System ................................................................................................................................. 1912
  John Low
Estimation of Potential Sediment Yield by Integrating USLE with GIS - A case study at Tenryu Watershed in Central Japan
Kazutoshi Hoshikawa

Developing a GIS for Integrated Land Use Planning
Louise van Leeuwen

Norsahida Said

A Study on the Urban Heat Island Changes of Beijing City Based on Remote Sensing
Zhang Zhaoming

Xiaohong Wang

Study on Remote Sensing Data Reduction and Classification By Rough Set - Case Study in Vegetation Coverage
LongJiang Du

Forecasting of Precipitation Quantitavely in North-West of Iran Using MODIS
Sohaila Javanmard

Study Review and Primary Construct of Fast Snow Disaster Estimation System in Tibet by Remote Sensing
Xiaohuan Xi

Dynamic Change Assessment for Ocean Color Parameters by Analyzing Remote Sensing Images in Gulf of Tonkin
Huy Cuong Do

Determination of Upwelling in the Southern Central Vietnam Sea using Satellite Imagery
Nguyen Tu Dan

Main Structures of Sea Surface Temperature (Sst) In South China Sea from Satellite Data
Tong Phuoc Hoang Son

Expert System for the Operative Environmental Diagnostics
Ferdenant Mkrtchyan

Preprocessing of Airborne Laser Scanner Data for Tree Extraction in Forest Area
Tatsuya Nawamura

Estimating Tree Volume with Terrestrial Lidar Data
Jihn-Fa Jan

Estimation of Multiple High-Level Query Concepts for Content-Based Satellite Image Retrieval
Timo Bretschneider

Individual Tree and Forest Information Using The High-Resolution Satellite Photograph
Tetsuro Sakai

Sensors Combination Assesment and Selection Methodology in Remote Sensing Satellites
Mohammad Hassani
End User Programming Technique for Remote Sensing Image Analysis Using Spreadsheet .......................................................... 2003
Kiyotada Sato

Noise Adjusted Canonical Analysis of Hyperspectral Data .......................................................... 2008
Jun-Hao Hwang

Predicting Rice Yield by Remote Sensed Images Taken at Booting Stage .................. 2009
Kuo-Wei Chang

Impacts of Shrimp Farming on the Socio-Economic and Environmental Situation in the Coastal Cai Nuoc District, Mekong Delta, Vietnam ..................................................... 2010
Nguyen Thanh Hung

Developing Road Information Management System Using Video GIS Method ............. 2020
Myung-Hee Jo

Developing Satellite Image Based E-Mapping System ............................................................. 2028
Yun-Won Jo

A study on the China Coastal Waters Appeared in the Surrounding Seas of Jeju Island by using Satellite Data .............................................................. 2036
Hong-Joo Yoon

Design and Realization of a SVM Classifiers for Urban Change Detection with MODIS Data .......................................................................................... 2042
Tiyan Shen

Evaluating the Use of Seasonal Parameters for a Supervised Classification in a Semi-Arid Rangeland of Northern Australia .......................................................... 2043
Robert De Wulf

Application of SPOT Quicklook Satellite Images to Identify and Delineate the Changing of Land Use in the Coastal Zone of Camau Peninsula, Vietnam .................. 2044
Vo Quang Minh

The European Corine Land Cover 2000 Project Ign-Fi ...................................................... 2050
Xavier Depouilly

Temporal Changes in Sediment Distribution Observed In MODIS Images .................. 2059
Soo Chin Liew, Alice Heng

DEM Generation With PRISM, ALOS Simulation Data ...................................................... 2064
Tianen Chen

Analysis of Hyperspectrum Vegetation Indices by Rough Set Theory ................................. 2070
K. T. Chang