

31st Asian Conference on Remote Sensing 2010

(ACRS 2010)

**Hanoi, Vietnam
1-5 November 2010**

Volume 1 of 2

ISBN: 978-1-61782-397-8

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2010) by the Asian Association on Remote Sensing
All rights reserved.

Printed by Curran Associates, Inc. (2011)

For permission requests, please contact the Asian Association on Remote Sensing
at the address below.

Asian Association on Remote Sensing
4-6-1 Komba Meguro-ku
Tokyo 153-8505, Japan

Phone: +81-3-5452-6406
Fax: +81-3-5452-6408

Sh1939murai@nifty.com

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

VOLUME 1

CONTENTS OF THE ORAL PRESENTATION

Hyperspectral Radiometry to Estimate the Grades of Iron Ores of Noamundi, India – A Preliminary Study	1
<i>T. Magendran, S. Sanjeevi, Arya Bhattacharya, S. Surada</i>	
Improvement of Hyperspectral Image Classification Using Genetic Algorithm for Feature Selection and SVMs Parameters Optimization	7
<i>Nasehe Jamshidpour, Saeid Homayouni, F. Samadzadegan</i>	
Global Change Observation Mission (GCOM)	13
<i>Haruhisa Shimoda</i>	
Thales Alenia Space Remote Sensing Technologies	19
<i>Francesco Passareta, Arnaud Zemmour, Eric Pailharey</i>	
Exploiting the Growing DMC Constellation for Global Applications in Agriculture, Forestry and Disaster Response	25
<i>Gary Holmes, J. Paul Stephens, Stephen Mackin</i>	
Accuracy Assessment of Extracted Endmembers for Hyperspectral Images	32
<i>Alireza Sharifi</i>	
Cashew Plants Growth Monitoring in Cambodia Using ALOS/PALSAR Data.....	37
<i>Ram Avtar, Haruo Sawada</i>	
Detection and Analysis of Deforestation in Cloud-Contaminated Landsat Images: A Case of Two Philippine Provinces With History of Forest Resource Utilization.....	44
<i>Meriam Meralles Makinano, Jojene Rendon Santillan, Enrico Camero Paringit</i>	
Evaluation of Recovery Potential of Forest Affected by Multiple Fires Using Quickbird and Multitemporal Medium Resolution Satellite Data	52
<i>Mui-How Phua, M. Abdullah Abdul Ghani, Fadzilah Majid Cooke, Satoshi Tsuyuki</i>	
Applying Different Methods for Prediction of Stand Volume Using SPOT 5 Data	60
<i>Thi Thanh Huong Nguyen</i>	
Classification of Coniferous Tree Species Using Aerial Hyper Spectral Observation 2	67
<i>Katsuya Yabe, D. Kunii, C. Yonezawa, Sinya Odagawa, Yukio Kosugi, Genya Saito</i>	
Multi-Temporal Monitoring on Forest Fire Distribution in Laos Using MODIS Data	73
<i>Vivarad Phonekeo, L. Samarakoon</i>	
Green Growth Promotion Plan: Based on Disaster Prevention Against Climate Change Adaptation.....	79
<i>Hyoung Sig Cho, Hong Gyoo Sohn, Soohee Han, Kyung Ho Kang</i>	
Integration System of Time Geography and 3-D Geovisualization	80
<i>Po-Hui Yu, Jinn-Guey Lay</i>	
A Literature Study on 3D Topology Models for the 3D Spatial Analysis	86
<i>Tae-Woo KIM, Yang-Won Lee, Yong-Cheol Suh</i>	
Application of GIS and Optimization Model to Potential Area Selection for Air Quality Monitoring Station.....	92
<i>Patiwat Littidej, Warunee Aunphoklang</i>	
Using Game Engine Based Visualization for Raising Awareness of Disaster Risk Reduction	98
<i>Luong Thi Thu Huong, Doan Thi Xuan Huong</i>	
Studing the Effects of Factors Determining Water Erosion Developments Using GIS-RS Techniques in Ghori Chay Watershed in South of Ardabil, Iran	99
<i>A. Esmali, E. Pazira, N. Chakmehchi</i>	
The Study of Vegetation and Land Use in Relation to Soil Characteristics and Runoff Estimation through Remote Sensing and GIS Techniques	104
<i>Babita Pal, Sailesh Samanta, Ram Krishna Maiti</i>	
Based-NSGA-II Intensive Energy Industries Site Selection	117
<i>G. Khoshmooza, M.Taleai, A. Mansourian</i>	
Sea Pollution Monitoring with Relative Radiometric Calibration and Change Detection on Multispectral Remote Sensing Images	123
<i>H. Ren, Hung-Ming Kao</i>	

Integration Multitemporal Remote Sensing Data and Bathymetric Data for Studying Shoreline Change in Ba Lat estuary, Thai Binh Province.....	129
<i>Dinh Thi Bao Hoa, Tong Thi Huyen Ai</i>	
Multi Stage Remote Sensing For Estimating Thin Ice Thickness with Optical Sensors Onboard Satellites.....	136
<i>Kohei Cho, T. Niioka, Haruhisa Shimoda</i>	
Assessment of Coastal Erosion Hazard, Southwest Coast, Sri Lanka.....	142
<i>Bandula Wickramarachchi</i>	
Practical Implementation of Vectorization of Oil Spills Detected at Sea on SAR Image.....	148
<i>Le Minh Hang, Nguyen Dinh Duong</i>	
Investigation of Correlation Between Rainfall and Soil Moisture at Darkhan Aimag, Mongolia	154
<i>O. Polpanich, B. Davdai, M. Hakari, L. Samarakoon</i>	
How Remote Sensing Supports Economic Evaluation of Mangrove Ecosystem	160
<i>Vo Quoc Tuan, S. Gebhardt, Vo Quang Minh, J. Huth, C. Kuenzer</i>	
Using Empirical Mode Decomposition to Analyze Time-Series MODIS Data for Monitoring Rice Phenology	166
<i>C. Chen, N. Son, L. Chang</i>	
Variation of Paddy Rice Planted Time in Recent Years for West Java in Indonesia Observed by Using Modis Data.....	172
<i>Satoshi Uchida</i>	
The Application of Satellite Data to Monitor the Encroachment of Agriculture on Forest Reserve in the Phu Luang Wildlife Sanctuary, LOEI Province, NE of Thailand	178
<i>Rasamee Suwanerakam torn, Pataraporn Pimdee, Sirorat Mongkolsawat, Nattaphol Sritoomkaew</i>	
Locating Potential Alternatives for Micro-Hydropower Plants along Streams within Low-Relief River Basin Using GIS	184
<i>Sunya Sarapirome, Nueng Teaumroong, T. Kulworawanichpong, Suwit Ongsomwang, Wipop Paengwangthong</i>	
Potential Grape - Growing Sites in the Tropics: Exploration and Zoning Using A GIS Multi-Criteria Evaluation Approach.....	190
<i>K. Sanga-Ngoie, K. Kumara, S. Kobayashi</i>	
Geographical Information System for Archeological Heritage Resource Management in Sri Lanka.....	196
<i>W. Ranasinghe</i>	
Ecosystem Service Value Assessment by Change of Land Cover Area in South Korea.....	202
<i>Shin Yup Kim, Ahn Ho Yong, Park So Young, Choi Chul Uong</i>	
The Potential of Multimedia Electronic Atlas in Promotion of Vietnam's Tourim Industry	209
<i>Tran Thi Huong Giang</i>	
Research on the Change of Urban Surface Temperature Under Impact of Urbanization in Hochiminh City by Using Remote Sensing Data.....	216
<i>Tran Thi Van, Hoang Thai Lan, Le Van Trung</i>	
Global Urban Area Mapping Using Global ASTER Satellite Images	222
<i>Hiroyuki Miyazaki, Xiaowei Shao, Koki Iwao, Ryosuke Shibasaki</i>	
Large Area Impervious Surface Mapping on The Basis of Optical and SAR Data	228
<i>Patrick Leinenkugel, Thomas Esch, C. Kuenzer, Steffen Gebhardt</i>	
Evaluation of Urban Expansion in Hanoi Using Remote Sensing and GIS	234
<i>Tran Thi Mai Dung, Vu Anh Tuan</i>	
Land Suitability Assessment for Industrial Location Development Using MCDA	240
<i>Suriporn Charunghanakij, Sunya Sarapirome</i>	
Semi-Automatic Forest Classification Using Free and Open Sources Software.....	246
<i>Vu Anh Tuan</i>	
Identification of Woody Plantation Species in Insular Southeast Asia Using 50m Resolution ALOS PALSAR Mosaic	252
<i>Jukka Miettinen, Wee Juan Tan, Soo Chin Liew, Leong Keong Kwoh</i>	
The Remote Sensing Approaches for Pasture Biomass Estimation and Monitoring in Mongolia	258
<i>M. Erdenetuya, B. Erdenetsetseg</i>	
Landscape Structure of Arid and Semi-Arid Forest in Iran	264
<i>H. Fadaei, T. Sakai, K. Torii, T. Yoshimura, A. Tada</i>	
Spatio-Temporal Patterns of Continuous Forest Cover in Kalimantan from 1982-2009	270
<i>Wataru Takeuchi, Hasi Bagan, Yoshiki Yamagata</i>	
A Method for Detecting and Mapping Urban Area by ALOS/PALSAR Data	276
<i>Koichiro Itabashi, Hiroyuki Miyazaki, Koki Iwao, Kazuki Nakamura, Ryosuke Shibasaki</i>	

Application of TERRASAR and QUICKBIRD Data for Urban Land Cover Classification	282
<i>D. Amarsaikhan</i>	
Application of Advanced Technologies in Strateging Conservation of Wetlands Against Urban Expansion in the Colombo District, Sri Lanka.....	287
<i>P. Gamage, L. Indrasiri, W. Navodani</i>	
Use of Satellite Data and Potential Surface Analysis for Urban Expansion of Hua Hin Municipality, Prachuap Khiri Khan Province, Thailand.....	293
<i>Suvalak Nakya, Supaporn Kaewko, Leopairojna Lertwit Rangsiraksa, Chaowalit Silaphathong</i>	
Mapping Urban Growth Probability in South Korea: Comparision of Environmental Damage by Use of Environmental Conservation Value Assessment Map.....	303
<i>So Young Park, Jin Cheong Gil, Jeon Sung Woo, Choi Chul Uong</i>	
Water Quality and Soil Erosion Analysis of A Sub-Watershed Using Remote Sensing and Geographical Information System	310
<i>A. Ibrahim, Yuswirda Muhammad Yusak, Mohammad Zulkarnain Abdul Rahman</i>	
Geochemical Assessment of Groundwater Quality Integrating Multivariate Statistical Analysis with GIS in Shiwaliks of Punjab, India	315
<i>C. Singh, S. Mukherjee</i>	
Groundwater Potential Mapping at Upper Part of Langat Basin Using Index Model Overlay Method of GIS Modelling Technique	321
<i>Mohamad Abd Manap, Wan Nor Azmin Sulaiman, Mohammad Firuz Ramli, Noraini Surip</i>	
Identification of Ground Water Potential Zones Using RS & GIS.....	327
<i>A. Chandra Bose, M. Giridhar, G. Viswanadh</i>	
Application of Remote Sensing and Geographical Information System (GIS) for Reservoir Water Balance Analysis	334
<i>Mohd Sani, A. Ibrahim, A. Tze Huey, Mohammad Zulkarnain Abdul Rahman</i>	
GIS Based Monitoring of Landuse Around Rivers Using Cadastral Maps for Non-Point Source Pollution Management	341
<i>Cholyoung Lee, Kyeohyun Kim</i>	
GIS Application for Assessing the Effects of Land Use Change on Surface Runoff and Soil Erosion in Phatthalung Watershed, Southern Thailand.....	347
<i>Anisara Pensuk, Rajendra Shrestha</i>	
RESTful WISDOM (Water-related Information System for the Sustainable Development of the Mekong Delta).....	353
<i>Verena Klinger, Thilo Wehrmann, Steffen Gebhardt, C. Kunzer</i>	
Locating Suitable Dam Site Along the Tien Yen River, Quang Ninh Province by Employing GIS and Multi - Criteria Analysis	358
<i>Quang Binh Bui</i>	
Landslide Susceptibility Map of Namli Watershed, Uttaradit, Thailand	374
<i>Sirilak Tanang, Sunya Sarapirome, Sasikarn Plaiklang</i>	
Increase the Level of Detail of 3D Building Models with Close-Range Images	380
<i>Meng Ju Lee, Fuan Tsai</i>	
3D Reconstruction from UAV-Acquired Imagery for Road Surface Distress Assessment.....	386
<i>Chunsun Zhang, Ahmed Elaksher</i>	
Shadow Detection and Information Recovery in Aerial Images	392
<i>Chih Wei Chang, Jaan-Rong Tsay</i>	
DEM Filtering Methods for Obtaining Geological Information.....	398
<i>Taro Yajima, Makoto Inoue</i>	
DEM Generation from RTK-GPS Survey along the Eastern Coast of Thailand	404
<i>Amornchai Prakobya, Sitthisak Moukomla, Krisdakorn Auymirundornkun, Thudchai Sansena</i>	
Reconstruction of 3D Models for Complex Buildings from Airborne and Ground-based Lidar Point Cloud Data	410
<i>Shiang-En Hung, Fuan Tsai</i>	
3D Building Modeling from Terrestrial Laser Scanning Data Using a Plane-based Binary Space Partitioning Tree.....	416
<i>Changjae Kim, Hyojeun Park, Suhong Yoo, Joon Heo, Hong Gyoo Sohn</i>	
Segmentation of Dual-Frequency Polarimetric SAR Data for an Improved Land Cover Classification	418
<i>Ken Yoong Lee, Timo Rolf Bretschneider</i>	

Integrated C and L-band Satellite Interferometry for Investigation of Surface Deformation in Northern Vietnam Fault Zone	424
<i>Chin Fu Chao, Kun-Shan Chen, Chih-Yuan Chu, Chih Tien Wang, Tran Quoc Cuong, Dinh Van Toan</i>	
Assessment of Noise Effect on Robustness of Spectral Similarity Measure	430
<i>Alireza Sharifi</i>	
A Comparision of Backscatter Coefficients of ALOS PALSAR FBD Products in Different Ground Conditions	436
<i>A. Bormudoi, M. Hazarika, R. Schumann, L. Samarakoon</i>	
SLC SAR Speckle Filtering Using Homoskedastic Features in Logarithmic Transformed Domain.....	442
<i>Thanh-Hai Le, Ian Vince McLoughlin, Ken Yoong Lee, Timo Bretschneider</i>	
Clustering of Hyperspectral Imagery Based on Ant Colony Optimization	448
<i>F. Samadzadegan, Hadiseh Hasani</i>	
A FBGA Based Range Delay Active Radar Calibrator	454
<i>Chih-Yuan Chu, Tzong-Huei Chien, Kun-Shan Chen</i>	
The Generation of Inferred Stereo Images From Lidar Data.....	459
<i>Tee-Ann Teo, Tian-Yuan Shih, Yao-Tsung Lin, Ching-Mei Huang</i>	
A Method to Detect and Remove Overlapped Points in Terrestrial Laser Scanning Data	465
<i>Soohee Han, Sangmin Kim, Hyojeun Park, Changjae Kim, Joon Heo</i>	
Detecting Shallow Landslides from Lidar nDSM	468
<i>Jin-King Liu, Wei-Chen Hsu, Yu-Chang Chan, Yu-Chung Hsieh, Tian-Yuan Shih</i>	
Microsatellite Based Frequency Modulation (FMCW) Bi-Static SAR.....	474
<i>Tippawan Wanwiwak, Craig I. Underwood</i>	
Recent Deformation In and Around the Eastern Taiwan Longitudinal Valley Revealed By PSI Technique	480
<i>Chung-Pai Chang, Jiun-Yee Yen</i>	
Automatic Robust GCP Extraction of Multi-Temporal And Polarimetric SAR Images.....	483
<i>Kamolratn Chureesampant, Junichi Susaki</i>	
A Study on PS-InSAR and D-InSAR for DDM Determination in Hilly Areas in Taiwan.....	491
<i>Jia-Shiang Yang, Jaan-Rong Tsay</i>	
Development and Implementation of a Geospatial Web-Based System for Monitoring Logging Activities	497
<i>M. Musa, A. Azzam, S. Syalini, K. Mahmood</i>	
Integrating Grid and Trajectory Data Via A Web Service: Case Study of Iceberg Movement	503
<i>Ha Duc Nguyen, Ulanbek D. Turdukulov, Connie A. Blok</i>	
The Analysis of City Lights on DMSP/OLS Data Using Digital Telephone Data	509
<i>Hiroaki Sengoku, Yuki Akiyama, Ryosuke Shibasaki</i>	
Improving the Accuracy of Mems IMU/GPS POS Systems For Land-Based Mobile Mapping System By Using Tightly Coupled Integration and Auxiliary Odometer.....	515
<i>Thanh Trung Duong, Yun-Wen Huang, Kai-Wei Chiang</i>	
The Use of Software Engineering Technique to Develop a GIS-Based System for Infrastructure Assets	521
<i>Salah Omer Hagahmoodi</i>	
Mapping of Personal Schedules on the Android-Based Smartphone	533
<i>Hajung Lee, Yang-Won Lee, Yong-Cheol Suh</i>	
Developing a Web-GIS Besed Decision Support Systems for Tourism Planning	540
<i>Z. Bahari Sojahrood, M. Taleai, A. Mansourian</i>	
ICA/PCA Base Genetically Band Selection for Classification of Hyperspectral Images	547
<i>M. Hasanlou, F. Samadzadegan</i>	
Verification of Image Control Points	555
<i>Kyaw Sann Oo, Masataka Takagi</i>	
Suitable Type of GCP For Accurate Registration of High Resolution Satellite Data	561
<i>Koji Uda, Masataka Takagi</i>	
Feature-Based Registration for Aerial Images And 3D Building Models	567
<i>Chao-Yuan Lo, Liang-Chien Chen</i>	
A Biologically-Inspired Optimization Algorithm for Urban Evacuation Planning in Disaster Management.....	573
<i>F. Samadzadegan, M. Yadegari</i>	
Optically Thin Cirrus Cloud Contamination In Sun Photometer Data	579
<i>Boon Ning Chew, James Campbell, Jeffery Reid, David Giles, Santo Valentin Salinas, Soo Chin Liew</i>	

Analysis of Sea Surface Temperature Using Time Series of Landsat Satellite Images: A Case Study in Kwang-Yang Bay, Korea	585
<i>Sangmin Kim, Changjae Kim, Joon Heo, Suhong Yoo</i>	
Using Thermal Infrared Remote Sensing Images To Monitor the Sea Surface Temperature in East Sea Region, Vietnam In June of 2003, 2006 and 2009.....	587
<i>Tran Hong Hanh, Doan Ha Phong</i>	
A Prediction Method for the Global Distribution of CO₂ Concentration Introduced Land cover Information into Non-Stationary Kriging	593
<i>Mitsuhiro Tomosada</i>	
On Characteristics of Harmful Algal Blooms in the South Sea of Korea by Using In Situ and Multi-Satellite Data	599
<i>Widhiyaniyawan Denny, Dae Hyun Kim, Hong-Joo Yoon</i>	
Estimation of Groundwater Table at Forested Peatland in Kalimantan Using Drought Index Towards Wildfire Control	605
<i>Wataru Takeuchi, Takashi Hirano, Nanin Anggraini, Orbita Roswintiarti</i>	
The Effect of Spatial Resolution on Landslide Mapping - A Case Study in Chi-Shan River Basin, Taiwan	611
<i>M. Lee, S. Wang, T. Lin</i>	
Mapping Evaluation in All Cycles of Disaster: Lessons Learned after Padang Earthquake	617
<i>Fahmi Amhar</i>	
Temporal Change Observation on Damage Situation of the Iwate-Miyagi Nairiku Earthquake in 2008 Using ALOS Satellite Images.....	629
<i>Naoki Sato, C. Yonezawa, D. Kunii, Madoka Hori, Genya Saito</i>	
Desiccated Lik River of the THAR Desert: A Potential Site for Flood Fury, Rajasthan, Western India.....	635
<i>S. Jakhar</i>	
Ontology Based Approach for Geospatial Semantic Web	641
<i>Thai Binh Tran, Thilo Wehrmann, Steffen Gebhardt, Verena Klinger, Juliane Huth, Vo Quoc Tuan, C. Kuenzer</i>	
Developing Multi Objective Linear Programming (MOLP) to Improve the Decision Making of Land Use Planning.....	647
<i>Man Quang Huy, Kappas Martin</i>	
A GIS- based CBR Model for Land-Use Inference.....	653
<i>Lu Tan, Hui Lin, Man-Chun Li</i>	
Forest Tree Distribution of Dry Dipterocarp Forest With Environmental Factors.....	660
<i>Yaowaret Jantakat, Wannatrat Tessawat, Supak Koonto</i>	
Application of GIS Based Mapping for Integrated Disaster Risk Management Planning at the Provincial Level	667
<i>Nguyen Thanh Long, Tran Hoang Yen, Don Carroll, Ian Wood, Ian Fox</i>	
Development of Modis-Based Firewatch System for Forest Fire Management in Vietnam.....	680
<i>Dang Van Tuyen, Tran Thi Kim Dung, Tran Hung, Nguyen Hong Minh</i>	
Land Use/Land Cover Classification – A Geomatic Approach.....	686
<i>A. Chandra Bose, M. Giridhar, G. Viswanadh</i>	
Remote Sensing and GIS Applications to Build Map of Landcover in Chan May Area, Phu Loc District, Thua Thien Hue Province	693
<i>Nguyen Huy Anh, Dinh Thanh Kien</i>	
The Combined Application of ALOS PALSAR and LANDSAT Images for Efficient Land Cover Mapping	699
<i>D. Amarsaikhan, M. Ganzorig, B. Nergui</i>	
An Analysis of the Impact of Landuse on the Rate of Sedimentation Using Satellite Data	705
<i>Mainozalawati Binti Mohd Nor, A. Ibrahim, Nor Liyana Bt Mohammad Khan</i>	
Utilization of Multi-Dates and Multi-Sensors Remote Sensing Data in Monitoring Land Use/Land Cover Changes in Kuwait	712
<i>Mamdouh Abdeen, Fatima Al Masoudi</i>	
The Capability of Eco-Physiologal Approach to Determine Net Primar Productivity (NPP) of Tropical Rainforest Using Remote Sensing Data	727
<i>Mohd Azahari Faidi, A. Ibrahim, A. Tze Huey</i>	
Determination of Moisture in Mongolia Using Remotely Sensed Data.....	734
<i>N. Enkhjargal, R. Tsolmon</i>	
Effect of Gas and Oil Pipelines in Sensitive Areas to Environmental Change.....	739
<i>Yushi Nakao, Haruo Sawada</i>	

Integration of Biometric and Remote Sensing Techniques for Estimation of Net Ecosystem Productivity In Tropical Rain Forest.....	745
<i>A. Wahid Rasib, A. Ibrahim, A. Cracknell, Nur Supardi Md. Noor, Abd Rahman Kassim, Khali Aziz Hamzah , Muhammad Firdaus Abdullah Sani, A. Tze Huey</i>	
Determination of Seasonal Dynamics in Glacier and Snow Coverage in Western Part of Mongolia Using Remote Sensing	751
<i>T. Oyuntsetseg, R. Tsolmon</i>	
Observation of Tsunami Damage to Marine Farm on Coast in Tohoku District Caused by the 2010 Chili Earthquake Using ALOS Satellite	757
<i>H. Watanae, D. Kunii, C. Yonezawa</i>	
Remote Sensing Methods for Mapping Flood-Prone Areas	763
<i>A. Tze Huey, A. Ibrahim, Mohd Sani Saayon, Mohammad Zulkarnain Abdul Rahman</i>	
Integration of RS/GIS for Estimation of Soil Erosion in Lam Phra Phloeng Reservoir, Nakhon Ratchasima Province, Thailand.....	768
<i>O. Polpanich, K. Nongpho, K. Boonwan, C. Chandraphabha, M. Hakari, L. Samarakoon</i>	
Vegetation Fire Activity in Sumatra Since 2002	774
<i>Chenghua Shi, Jukka Miettinen, Soo Chin Liew</i>	
A Design of Slope Failure Detection System Using Wireless Sensor Networks	780
<i>Masaki Imai, Masayuki Iwai, Ryosuke Shibasaki, Kaoru Sezaki</i>	
Evaluation of Cassava Plantation Area Using Rule-Based Classification of Multi-Temporal Satellite Imagery.....	788
<i>Jiratiwan Kruasilp, Anusorn Rungsipanich</i>	
Monitoring of Paddy Rice Fields in Australia Using Aster Data and TM Data	793
<i>Aya Kitamura, D. Kunii, C. Yonezawa, Genya Saito</i>	
Monitoring of Crop Yield in Bornuur Soum Using Leaf Area Index.....	799
<i>B. Batbileg, R. Tsolmon</i>	
Estimation of Grassland Condition in Mongolia from Field Survey and Satellite Images.....	803
<i>Madoka Hori, C. Yonezawa, D. Kunii, Yu Yoshihara, Haruka Suzuki</i>	
Vegetation Recovery Monitoring at Landslides Caused by Hurricane Mitch in Honduras, Central America	808
<i>M. Valdez, C. Chen, N. Son, L. Chang</i>	
UAV Photogrammetry	815
<i>Armin Gruen</i>	
Generating Facade Texture from Close-Range Images for Photo-Realistic City Modeling.....	816
<i>Fuan Tsai, Pin-Shen Chen, Huan Chang</i>	
An Experimental Study on the Generation of Thematic Maps Using KOMPSAT-2 Image Data	822
<i>Kwangjae Lee, Younsoo Kim</i>	
Close-Range Object 3D Surface Modeling using Multiple Cameras and Multiple Images Matching Technique	828
<i>Po-Chia Yeh, Jiann-Yeou Rau</i>	
A Platform of Network Design For Close-Range Photogrammetry	834
<i>Yu-Shan Chien, Jen-Jer Jaw</i>	
Change Detection with Color Transform Image Fusion on Multispectral Remote Sensing Images.....	840
<i>Wei-Jen Liang, H. Ren</i>	
Land Disaster Monitoring by Using Multi Temporal ALOS/PRISM Stereo Imagery	846
<i>Keisuke Ishida, Mitsuhiro Kojima, Masataka Takagi</i>	
Land Use/Land Cover Change Detection of Tonle Sap Watershed, Cambodia	852
<i>Nalin Senevirathne, Keo Mony, L. Samarakoon, M. Hazarika</i>	
Searching of RS Images to Aid Change Detection: A Metadata Perspective.....	858
<i>Yao-Hsien Yeh, Jung-Hong Hong</i>	
Displacement Detection of Landslide by Using Ground Based Lidar	864
<i>Ryo Inada, Masataka Takagi</i>	
Preliminary Result of Remote Sensing Applications for Sustainable Development in Mekong Delta.....	870
<i>Lam-Dao Nguyen, Le-Toan Thuy, C. Kunzer, Pham-Bach Viet</i>	
Back Projection and Rational Function Modeling for SAR Satellite Imagery	877
<i>Liang-Chien Chen , Hsueh-Yen Shih, Chao-Yuan Lo</i>	
Oildetect 1.0 - A System for Analysis of Oil Spill	883
<i>Nguyen Dinh Duong, Nguyen Mai Phuong, Le Minh Hang</i>	
Accuracy Assessment of Quantization Methods for Panchromatic Satellite	891
<i>Alireza Sharifi</i>	

Texture Analysis of Urban Landcover Using Very High Resolution Optical Satellite Images	897
<i>Wee Juan Tan, Allan Yong Kiat Tan, Soo Chin Liew, Leong Keong Kwoh</i>	
Evaluation of ALOS PALSAR Applicability to Generate Bushfires Scars Map.....	903
<i>Y. Zuo, Linlin Ge, K. Zhang</i>	
Optimum Band Selection of Hyperspectral Imagery Based on Particle Swarm Optimization.....	909
<i>F. Samadzadegan, Tahmineh Partovi</i>	
Satellite Imagery Geo-Positioning Aided by Aerial Imagery	915
<i>Ning Hsuan Chang, Jen-Jer Jaw</i>	
The Use of Orthophoto Maps in Power Transmission System Management.....	921
<i>Randy John Vinluan, Virgilio Santos, Melchor Valdeabella, Medel Lim Suan, Nicetas Caluya</i>	
Geometric Calibration of KOMPSAT-2 MSC PAN Data And Mapping Performance.....	927
<i>Doo Chun Seo , Jaehun Jung , Ji Yean Yang , Hyo Suk Lim</i>	
Assessment of DEM Accuracy Generated from ALOS Prism High Resolution Stereo-Optical Imagery Using LPS	933
<i>S. Chaminda, Xiaoyong Chen, Seishiro Kibe, L. Samarakoon</i>	
Efficient 3D Modeling of Buildings in Dense Urban Areas	939
<i>Yuki Ota, Junichi Susaki</i>	
Acquisition of Building FACADE Texture from Close-Range Images	945
<i>Yu-Yuan Chen, Liang-Chien Chen</i>	
Application of Genetic Algorithm for GPS GDOP Computation	951
<i>Sayed Mohammad Reza Mosavi</i>	

VOLUME 2

Research on Automatic Dodging Method towards Aerial Image Seamless Processing	956
<i>Xiao Feng, Jiyuan Li</i>	
Investigating the Industrial Water Pollution of Thi Vai River in Vietnam with MODIS Measurements and Modeling.....	963
<i>Bui Ta Long, Wataru Takeuchi, An Ngoc Van</i>	
Validation of Estimated TRMM Rainfall Data by Rain Gauges in Yemen	964
<i>Ayoub Almhab, Christiaan Van Der Tol</i>	
A Comparison of Two Stereo-Matching Algorithms	972
<i>Bo Yuan, Soo Chin Liew, Leong Keong Kwoh</i>	
Development of Algorithm to Generate Three-Dimensional Urban Models in the Dense Urban Areas Using Airborne Lidar	976
<i>Junichi Susaki, Atsushi Kora</i>	
Modelling, Management and Distribution of Heterogeneous Data for A Web Based Information System.....	983
<i>Steffen Gebhardt, Thilo Wehrmann, Verena Klinger, Julianne Huth, C. Kunzer</i>	
Refinement of Biomass Burning PM2.5 Emission Model by Quality Assured MODIS Aerosol Measurements	989
<i>Hirotoshi Kishi, Wataru Takeuchi, Haruo Sawada</i>	
Aerosol Characteristics over Ulaanbaatar Using Satellite Remote Sensing	995
<i>S. Enkbat, R. Tsolmon, D. Gerelmaa</i>	
An Exploration and Analysis of Carbon Mapping and Estimation Methods	999
<i>Jaehoon Jung, Tony Oyana, Kyunghun Cho, Suhong Yoo, Kyungmin Kim, Jungbin Lee, Joon Heo</i>	
Classification of Clouds with Object Oriented Technique	1002
<i>Hamid Azari, Ali Akbar Matkan, Ali Reza Shakiba, Seyed Hossein Pourali</i>	
Estimation of Aboveground Carbon Using KNN Algorithm: A Case Study in Danyang, Korea	1008
<i>Jaehoon Jung, Joon Heo, Suhong Yoo, Kyunghun Cho, Kyungmin Kim, Jungbin Lee</i>	
Detecting Air Pollution in Vietnam by Optical Satellite Images	1011
<i>Luong Chinh Ke, Ho Thi Van Trang, Tran Ngoc Tuong, Nguyen Le Dang</i>	
Photogrammetric Orientation of UAV-Acquired Imagery for Road Condition Monitoring.....	1019
<i>Chunsun Zhang, Ahmed Elaksher</i>	
Matching GPS Measurements on Locations in Digital Maps Using Neural Network.....	1025
<i>Sayed Mohammad Reza Mosavi, Maryam Shemirani</i>	
Development of GPS Photos Database for Land Use and Land Cover Applications.....	1030
<i>An Ngoc Van, Wataru Takeuchi</i>	

GPS Kinematic for Calculation of GEOID Undulation in Sulawesi.....	1036
<i>Dadan Ramdani</i>	
On the Height Accuracy of Elevation from Digital Medium Format Camera	1042
<i>Peter Tian-Yuan Shih, Tee-Ann Teo, Jyun-Yi Wu, Yao-Tsung Lin, Ching-Mei Huang</i>	
The Relationship of WORLDVIEW Satelite Image Digital Number With Land Cover and Peat Soil Occurence in U Minh Ha Natural Forest, Camau Province.....	1048
<i>Vo Quang Minh</i>	
Application of Remote Sensing for Monitoring Land Use Change in Songkhla Lake at Songkhla Province, Thailand.....	1054
<i>Phattaraporn Sangrawee, Anusorn Rungsipanich</i>	
The Interaction Analysis of UHI Effects and Land Cover Change in Taichung City	1060
<i>Chih-Heng Liu, Yuan-Ling Chang, Tien-Yin Chou</i>	
Evaluations of the Different Indices for Canopy/ Land Cover Estimation in Khalkhal County (Northwest of Iran)	1070
<i>A. Ghorbani, H. Talebpour, A. Esmali Ouri</i>	
Hyperspectral Remote Sensing for Geologic Carbon Sequestration Field Monitoring	1077
<i>Rattanasuda Cholathat, Xiaojing Li, Linlin Ge, Hai Tung Chu</i>	
Retrieving Oil Palm Plantation Based on Image Texture Analysis on THEOS Panchromatic Imagery.....	1089
<i>Thanwarat Anan, Yoothaphom Phothiracha, Surassawadee Phoompanich</i>	
Remote Sensing for Monitoring Vegetation Structure on the Coastal Wetlands	1094
<i>Nguyen Thi Thuy Hang</i>	
Crop Identification Using Radarsat-2 Multi-Polarization Data A Case Study of Lopburi Province, Thailand	1095
<i>Tippathoo Teekapakvisit</i>	
A Study of Assimilating Various Satellite Data into Crop Growth Model.....	1100
<i>Kentaro Kuwata, Wenbin Wu, Ryosuke Shibasaki</i>	
Mapping Summer Time Pasture Amount in North-Central Mongolia	1106
<i>B. Batbileg, A. Hirano, K. Shindo</i>	
Color Normalized Pan-Sharpening Method and Natural Color Enhancement for Fusion of Ikonos Image	1112
<i>Le Minh Son, Luong Chinh Ke, Vu Phuong Lan</i>	
Evaluating the Sensitivity of Image Fusion Quality Metrics to Image Degradation in Satellite Imagery	1119
<i>F. Samadzadegan, F. Dadrasjavan</i>	
Fusion of ALOS PALSAR and ASTER Data for Land Cover Classification at Tonlesap Floodplain, Cambodia	1125
<i>Nguyen Van Trung, Jung-Hyun Choi, Joong-Sun Won</i>	
Intelligent Sensors Fusion Algorithm.....	1133
<i>L. Sheela, C. Xavier</i>	
Evaluating Effectivness of Radiometric Correction for Optical Satellite Image Using Statistical Parameters	1137
<i>Luong Chinh Ke, Nguyen Le Dang</i>	
An Innovative Approach to the Implementation of GNSS Training Kit.....	1145
<i>Phuong Xuan Quang, Dominici Fabrizio, Marucco Gianluca, Charqane Khalid</i>	
Application of Internet-GIS to Senior High Schools GIS Education.....	1151
<i>Ting-Yen Hung, Jinn-Guey Lay</i>	
Building Sustained Capacity to Use Geospatial Data Effectively for Conservation in Lao PDR and Vietnam	1156
<i>Le Minh Hanh, Le Xuan Canh, Ha Quy Quynh, Ned Horning</i>	
Satellites as a Tool for Capacity Building Leading to Sustainable Development	1162
<i>Alex Da Silva Curiel, Ben Stern, Zeger De-Groot, Luis Gomes, J. Paul Stephens, Owen Hawkings, Gary Holmes</i>	
Remotely Sensed Archeology: Recent Applications with "DAICHI"	1168
<i>Filiz Kurtcobe, Norbert Pfeifer, Cengizhan Ipbuker</i>	
Concept-based Intelligent Information Retrieval in Digital Library	1176
<i>Thinn Mya Mya Swe</i>	
Road Extraction by Using Texture Analysis and Spectral Information	1181
<i>Tsukasa Hosomura</i>	
New Approach for Extraction of Subsurface Cylindrical Pipe Diameter and Material Type from Ground Penetrating Radar Image	1187
<i>Jaw Siew Wei, Mazlan Hashim, Maged Marghany</i>	

Feature Extraction for Metric Characterization of Residential Urban Form of Hanoi City	1194
<i>Pham Van Cu, Pham Van Thang, Le Minh Phuong</i>	
Subsurface Utility Mapping for Underground Cadastral Infrastructure.....	1200
<i>Mazlan Hashim, Jaw Siew Wei, Maged Marghanay</i>	
Feature Extraction for High-Resolution Imageries Based on the Human Visual Perception	1207
<i>Hongsheng Zhang, Hui Lin, Yan Li</i>	
Clouds and their Shadow Removal in Remote Sensing Image.....	1217
<i>Yi Chung Chen, H. Ren</i>	
Landslide Detection with Feature Vectors Extracted from Video of Fixed Monitor	1222
<i>Yen Shuo Lin, H. Ren</i>	
An Approach for Estimating Area of Rubber Plantation: Integrating Satellite and Physical Data over the Northeast Thailand.....	1228
<i>Charat Mongkolsawat, Wasana Putklang</i>	
Estimating Land Surface Soil Moisture Variability in the Vietnamese Mekong Delta Using Modis Data.....	1235
<i>Son Thanh Nguyen, C. Chen, L. Chang, M. Valdez</i>	
Buffering-Based Analysis of Calving Front of Jakobshavn Isbrae, West Greenland	1241
<i>Seongsu Jeong, Changjae Kim, Hyoung Sig Cho, Joon Heo</i>	
Surface Soil Moisture Assessment for Rice Areas in Taiwain Using Modis Data	1247
<i>Yi Jeng Lin, C. Chen, L. Chang, N. Son</i>	
Estimation of Rain-fed Wheat Cultivation by Using Satellite Images (Case Study: Khodabandeh District, Zanjan Province).....	1252
<i>Mohsen Ahadnejad Reveshty, Yoshihisa Maruyama, Alireza Rabet</i>	
Development of Hyperspectral Data Utilization Technology by Using Data Mining Method for Paddy, West Java, Indonesia	1259
<i>Atsushi Uchida, Hozuma Sekine, Kotaro Fukuhara, Taichi Takayama, Osamu Kashimura, M. Evri, Agus Wibowo, M. Sadly, D. Arief, Nadirah Pudi, Sidik Muljono</i>	
Application of Multimedia Technology with Remote Sensing, GPS And GIS for Discovering Karst Ground Water in Haging Province	1265
<i>Nguyen Ngoc Thach, Pham Ngoc Hai, Nguyen Van Lam, Duong Thi Thanh Thuy</i>	
Online SLAM and Moving Objects Detection Using Laser Scanner on Vehicle Platform.....	1274
<i>Yulin Duan, Yun Shi, Xiaowei Shao, Huijing Zhao, Ryosuke Shibasaki</i>	
On the Published Patents of Airborne Bathymetric Lidar by 2009.....	1280
<i>Peter Tian-Yuan Shih, Jie-Chung Chen, Jia-Hsun Chen</i>	
Full-Waveform Lidar Processing with Different Computation and Classification Methods	1286
<i>Wei-Tsun Lin, Peter Tian-Yuan Shih, Tee-Ann Teo</i>	
Accuracy Assessment of INSAR DEM Tropospheric Noise Reduction Technique Against GPS Observations	1292
<i>Alireza Sharifi</i>	
A Geocoding Method for Interferometric DEM in Difficult Mapping Areas.....	1298
<i>Qingli Luo, Jixian Zhang, Hui Lin</i>	
Comparision of Elevation Derived from Insar Data with DEM from Topography Map	1305
<i>Nguyen Ba Duy</i>	
Development of Semi-Automated Framework for 3D Building Modeling Using Terrestrial Laser Scanning Data	1317
<i>Hyokeun Park, Seongsu Jeong Il, Hong Seo, Hyoung Sig Cho, Soohee Han, Joon Heo, Hong Gyoo Sohn</i>	
The Analysis of Polder BRDF Database Data by Simple Linear Shadowing Model.....	1318
<i>Yoshiyuki Kawata</i>	
Debris Flow Detection for Fixed Video Camera with Optimal Theory.....	1323
<i>Yen Liang Chen, H. Ren</i>	
Generation 250m Daily Cloud-free MODIS Image Using Dynamic Composite Algorithm	1329
<i>Sun-Hwa Kim, Sung-Jin Kang, Jeong Eun, Kyu-Sung Lee</i>	
Multi-Objective Optimization for Multi-Satellite Scheduling System	1335
<i>Feng Tai Hwang, Yi Yao Yeh, Sheng-Yi Li</i>	
Image Smoothing of Multispectral Imagery Based on the HNN and Geo-Statistics	1341
<i>Nguyen Quang Minh</i>	
Applying Genetic Algorithm to GPS GDOP Classification.....	1352
<i>Sayed Mohammad Reza Mosavi</i>	

Remote Sensing for Forest Cover Change in Cat Tien National Park Support for Redd Pilot Study in Vietnam	1358
<i>Hanh Quyen Nguyen, Minh Y. Tran, Sy Son Tong, Ngoc Dat Dinh, Viet Hoa Pham, Richard Mc Nelly, Timothy Holland, Thanh An Pham</i>	
Land Cover Classification Using Combinations of L- and C- Band SAR and Optical Satellite Images	1364
<i>Hai Tung Chu, Linlin Ge</i>	
Analysis of Peatland Development and Degradation Processes in Jambi, Indonesia	1370
<i>Jianjun Wang, Jukka Miettinen, Aljosja Hooijer, Soo Chin Liew, Leong Keong Kwoh</i>	
Land Cover Analysis in Landscape Typology in Ninh Binh Province - A Spatial Approach Using Remote Sensing and GIS Analysis (Abstract Not Available)	N/A
<i>Hang Thi Thuy Nguyen</i>	
Full Polarimetric Observation of Rice Growth by PALSAR	1376
<i>Takahiro Imai, D. Kunii, C. Yonezawa</i>	
TWOPAC – A New Approach for Automated Classification of Satellite Imagery	1382
<i>Juliane Huth, Thilo Wehrmann, Steffen Gebhardt, Verena Klinger, C. Kuenzer</i>	
Flashflood Assessment in Central Thailand - A Case Study	1388
<i>D. Alkema, S. Prachansri, K. Masters</i>	
Using the PRECIS – Regional Climate Model to Develop Climate Change Scenario in 21st Century for Vietnam	1389
<i>Nguyen Van Thang, Hoang Duc Cuong, Nguyen Dang Mau, Truong Ba Kien</i>	
Potential of Near Real Time Satellite Rainfall Products in Monitoring and Predicting Geohazards in the Caribbean	1397
<i>Sumith Pathirana, Kelly Aliasgar, Serwan Baban</i>	
Comparative Study of Satellite Remote Sensing Systems for Earthquake Disaster Mitigation	1405
<i>Hiroyuki Koma, Haruo Sawada</i>	
Catastrophic Flood and Forest Cover Change in the Huong River Basin, Central Viet Nam: A Gap Between Common Perceptions and Facts	1411
<i>Phong Tran, Fausto Marincioni, Rajib Shaw</i>	
Use of Satellite Technology for Operational Pollution Monitoring, Source Detection and Identification	1412
<i>Marte Indregard, Jan Petter Pedersen, Line Steinbakk, Tony Bauna, Borre Pedersen</i>	
JAXA Presentation for Climate Change (Abstract Not Available)	N/A
<i>Toru Fukuda</i>	
The Overview of Space Applications for Environment Initiatives	1418
<i>Shinichi Sobue, Toru Fukuda, Toshio Koike, Wataru Takeuchi, Tsugito Nagano, Tomoyuki Nukui</i>	
Carbon Stock Calculating and Forest Change Assessment Towards REDD+ Activitives for the Mangrove Forest in Vietnam	1423
<i>Wataru Takeuchi , Vu Tien Dien, An Ngoc Van</i>	
Assessment of Vulnerabilities by Sea Level Rise on Sri Lankan Coasts	1424
<i>Bandula Wickramarachchi, L. Samarakoon, Yoshimitsu Tajima</i>	
Contribution of Asian Institute of Technology for Implementation of SAFE	1429
<i>L. Samarakoon, Kavinda Gunesekera, J. Fowze</i>	
The Use of Remote Sensing Disaster Risk Management – A Building Capacity Training Course at Water Resources University (WRU)	1431
<i>Le Thi Chau Ha</i>	
Applying Satellite Data, Numerical Rainfall Forecast, Combinning with Ground Observations in Flood Forecasting for the Red River System	1432
<i>Tinh Dang Ngoc</i>	
Trends of Natural Hazards in the Asia-Pacific Region	1433
<i>M. Hazarika, Sahdev Singh, M. Shahab Uddin, L. Samarakoon</i>	
Flood Inundation Modeling in the Lower Reach of the Kalu River, Sri Lanka	1440
<i>J. Fowze, H. Nandalal, D. Welideniya, S. Samarasinge, Anuja Seneviratne, A. Bormudoi, M. Hazarika, L. Samarakoon</i>	
Landslide Susceptibility Mapping in Agricultural Land Using Remote Sensing and GIS: A Case Study in East Java, Indonesia	1446
<i>J. Fowze, V. Thakar, S. Wahyu, R. Shofiyati, M. Hazarika, L. Samarakoon</i>	
Volcano Monitoring by Combination of Ground-based and UAV-based System with Sensor Network	1452
<i>Masahiko Nagai, Yoshinori Araki</i>	
Potential Use of ALOS PALSAR in Flood Hazard Mapping, A Case Study in Five Districts, LaoPDR	1453
<i>A. Bormudoi, M. Hazarika, R. Schumann, L. Samarakoon, V. Phaengsuwan, K. Thanasack</i>	

Strengthening Technical Capacity of Remote Sensing Applications in Vietnam (Abstract Not Available).....	N/A
N/A	
Strengthening Technical Capacity of Remote Sensing Applications in Sri Lanka (Abstract Not Available).....	N/A
N/A	
Earthquake Deformation Study Using SAR Interferometry, A Case Study in Pamir-Alai Area in Kyrgyz (Abstract Not Available).....	N/A
N/A	
Cyclone Hazard Modeling and Vulnerability Assessment in a Coastal District of Bangladesh Using GIS and Remote Sensing.....	1458
<i>Kavinda Gunasekara, M. Sohel Rana, Manzul Kumar Hazarika, L. Samarakoon, Munir Siddiquee</i>	
JAXA's Earth Observation Satellite Program	1465
<i>Toru Fukuda, Shinichi Sobue, Tomoyuki Nukui, Fumiko Oda</i>	
Earth Observation System and Applications of China (Abstract Not Available).....	N/A
<i>Gu Xingfa</i>	
Sensors for Indian Earth Observation Programme.....	1472
<i>S.S. Ran</i>	
An Omni-Directional Assessment of THEOS Operational Projects.....	1473
<i>Ravit Sachasiri</i>	
Environmental Monitoring Using FORMOSAT-2 Satellite Images.....	N/A
<i>Chi-Farn Chen</i>	
How I Become Space Scientist From Asia (Abstract Not Available).....	N/A
<i>Joey Comiso</i>	
How To Work For The International Academic Societies (Abstract Not Available).....	N/A
<i>Kohei Cho</i>	
Studying Abroad (Abstract Not Available)	N/A
<i>Manos Baltsavias</i>	
ISPRS Student Consortium (Abstract Not Available).....	N/A
<i>Kyaw Sann Oo</i>	
ACRS Student Program (Abstract Not Available)	N/A
<i>Hiroyuki Miyazaki, Chao-Yuan Lo</i>	
How to Write a Thesis/Paper (Abstract Not Available).....	N/A
<i>Armin Gruen</i>	
How to Write a Proposal (Abstract Not Available).....	N/A
<i>Ian Dowman</i>	
How to Give Presentations (Abstract Not Available).....	N/A
<i>Shunji Murai</i>	
Study on Monitoring Taipei Land-Use Change	1479
<i>Yeong-Kuan Chen, Chi-Chuan Cheng , Su-Fen Wang, Rong-Peng Wang</i>	

CONTENTS OF THE POSTER PRESENTATION

Study on Monitoring the Landscape Structure of <i>Leucaena Leucocephala</i>	1486
<i>Chi-Chuan Cheng, Huan-Min Chen, Hann-Chung Lo</i>	
Radiometric Calibration Coefficients of Water-Body for “HJ-1” Satellite Multispectral CCD Sensor by Cross-Calibration Based Method	1492
<i>Huang Miaofen, Xing Xufeng, Niu Shengli, Sun Zhongping</i>	
Development of the Web GIS Based GRIMS (Green Resource Information Management System)	1501
<i>Myung Hee Jo, Hyongsuk Kim, Yunwon Jo</i>	
Application of Photogrammetry and Markov Model on Monitoring Human Disturbance in Shihmen Reservoir Catchment.....	1507
<i>Chi-Chuan Cheng, Yeong-Kuan Chen, Chih-Da Wu</i>	
Updating Land Use Map with High Resolution Satellite Imagery.....	1513
<i>Pham Vong Thanh, Le Thu Trang, Tran Quoc Khanh, Phan Van Khue</i>	
Determining the Surface Deformation in Ilan Plain Using PSI Technique.....	1518
<i>Chu-Chun Kang, Chung-Pai Chang</i>	

A New Method to Retrieve Soil Roughness Parameter from C-Band SAR Data	1524
<i>Weilin Yuan, Qiming Qin, Hongbo Jiang</i>	
Detection of Clear-Cut Areas Using the Image Differencing Method with LANDSAT/TM Data	1530
<i>Takuhiko Murakami, Tetsuji Ohta, Tsuyoshi Kajisa, Nobuya Mizoue, Shigejiro Yoshida</i>	
Continental Scale Land Cover Classification Using MODIS Surface Reflectance Products.....	1536
<i>Mikio Maeda, Kiyonari Fukue, Haruhisa Shimoda</i>	
Temporal Change of Crested Ibis Habitat in Shaanxi Province, China	1542
<i>Shota Mochizuki, Takuhiko Murakami</i>	
Land Use Change Analysis in Uvurkhangai Province	1548
<i>G. Undram, A. Tungalag, R. Tsolmon</i>	
A Study on the Growth Monitoring Method of Rice Plants by Laser Scanner from Above	1554
<i>Kazuyoshi Takahashi, Atsushi Rikimaru, Kenta Sakata</i>	
Monitoring and Spatial Analysis of Marine Debris by RS and GIS.....	1560
<i>Sun-Woong Jang, Jae-Moon Park, Hong-Joo Yoon</i>	
Study on the Variations of Catch of Anchovy and Saury Due to Oceanic Climate Change in the Korean Seas by Using RS/GIS	1567
<i>Seung-Yeol Oh, Jae-Moon Park, Hong-Joo Yoon</i>	
Statistical Relationship Between Lai Indices and Canopyspectral Data of Crops	1573
<i>Heng Dong, Qiming Qin, Lin You, Hongbo Jiang, Weilin Yuan, Jinliang Wang, Ning Zhang</i>	
3D Model Retrieval and Assessment for Point Cloud Modeling.....	1578
<i>Po-Chi Hsu, Jyun-Yuan Chen, Chao-Hung Lin</i>	
Mapping of Precipitable Water Using MTSAT Data	1584
<i>Shin Akatsuka, Kei Oyoshi, Wataru Takeuchi</i>	
Detection of Land Use/ Land Cover Change in War Ravaged Area in Sri Lanka Using Image Fusion Technique	1590
<i>G. Gunawardena, Wataru Takeuchi</i>	
Correction on NDVI from QUICKBIRD MS Data Due to Topographic Effects	1596
<i>Min-Gee Hong , H. Nguyen, Choен Kim</i>	
A Comparative Study on Shadow Detection of Remote Sensing Image in Color Models.....	1600
<i>I-Chun Tsai, Chao-Hung Lin</i>	
Implementation of A Detailed Biotope Mapping Using Kompsat-2 Imagery and the Arcbiotope Tool.....	1606
<i>Byeong-Hyeok Yu, Byung-Seon Kahng, Hyun-Kyung Oh, Sun-Gu Lee, Yong-Shik Chun</i>	
One Method of Estimating Vegetation Leaf Area Index from ENVISAT-ASAR Data	1612
<i>Shuai Gao ,Liang Guo, Jie Wu, Lu Yu, Chaoyang Wu, Yu Meng, Ting Mei, Liping Zhou</i>	
Assessment And Monitoring The Effects of Coastal Dynamics Changes in South Johore Using Remote Sensing Data.....	1625
<i>Mohd Aizuddin Mohd Raes, A. Ibrahim, Mohd Sani Saayon</i>	
Geometric Accuracy Evaluation of Theos Imagery	1626
<i>Shijie Liu, Clive Fraser, Chunsun Zhang, Mehdi Ravanbakhsh, Xiaohua Tong</i>	
The Display and Analysis of Bathymetric Lidar Waveform	1632
<i>Jyun-Yi Wu, Peter Tian-Yuan Shih, Jie-Chung Chen, Jia-Hsun Chen</i>	
Change Detection from ALOS/PALSAR Imagery for the 2008 Chinese Wenchuan Earthquake	1638
<i>Jung Hun Yu, Linlin Ge</i>	
Combining of Aerial Laser Scanning Data, Terrestrial Mobile Scanned Data and Digital Orthophoto.....	1644
<i>K. Pavelka, J. Reznicek, Martina Faltynova, Lucie Pikhartova</i>	
Experiment of the Modification and Updating of National Base Maps Using the LiDAR-Based Mobile Mapping System	1650
<i>Jaemyoung Cho, Hongsik Yun, Miran Lee, Hyunjoon Cho</i>	
GIS-Based Analysis of Beech Forest Decline Using Time-Series Aerial Photographs: Case Study of the Tanzawa Mountains, Central Japan	1655
<i>M. Yamane, T. Suzuki, H. Sasakawa</i>	
Empirical Mode Decomposition and Wavelet Analysis of Time-Series Spot Data for Evaluating Rice Planting Calendar	1661
<i>C. Chen, S. Huang, L. Chang, N. Son</i>	
A Study on Estimating Thin Ice Thickness with Formsat-2 RSI Data	1667
<i>T. Niioka, Kohei Cho, Chi-Farn Chen</i>	
Interannual Variations of SST in the Northeast Asian Sea by Using NOAA/AVHRR Data.....	1673
<i>Seung Hwan Min, Dae Hyun Kim, Hong-Joo Yoon</i>	

Estimate Ambient Population Density: Discovering The Current Flow of the City	1679
Teerayut Horanont, Ryosuke Shibasaki	
Design and Implementation of MODIS Based Korean Peninsula Monitoring System.....	1685
Sung-Jin Kang, Sun-Hwa Kim, Jeong Eun, Seung-Yub Kim, Kyu-Sung Lee	
Semi-Automatic Clustering for a Registration of Radar Images.....	1690
Joz Wu, Hsien-Yu Tsai	
Development of A Visual SAR Processor and Its Calibration Function	1696
Yosuke Ito, Yuhei Teramoto, Kenji Abe	
A Maximum Noise Fraction Transform Based on a Sensor Noise Model for Hyperspectral Data.....	1702
Naoto Yokoya, Akira Iwasaki	
SARSHIPS: A Component-Based System For Ship Detection on SAR Images	1708
Bo Yuan, Soo Chin Liew, Leong Keong Kwoh	
The Extraction of 3-D Structural Lines For Building Facade Modelling	1712
Chung-Hsian Kao, Tee-Ann Teo	
Developing an Emd-Based Data Filtering Method for Airbourne LiDAR	1719
K. Chang, M. Peng, E. Wang, J. Cheng	
Quality Assessment and Control of DEM Generation from Airborne LiDAR Data.....	1725
C. Wang, Y. Liu, Yi-Hsing Tseng	
True-Orthorectification by Mosaicking Aerial Images	1731
Wen-Chi Chang, Liang-Chien Chen, Chia-Hwa Lin, Chien-Liang Liu, Yao-Tsung Lin, Shin-Hui Lee	
A Comparative Analysis of fusion Methods for MODIS 250m Images.....	1736
Sung-Jin Kang, Sun-Hwa Kim, Jeong Eun, Kyu-Sung Lee	
Towards DTM Generation from ASTER GDEM and SRTM3 in Hilly Terrain Using Wavelets	1742
Ryotaro Takeda, Wataru Takeuchi	
Coral Reef Mapping in Vietnam's Coastal Waters from ALOS AVNIR-2 Satellite Image and Field Survey Data.....	1748
Van Dien Tran, Stuart Phinn, Chris Roelfsema	
The Estimation of Pollution Level on Making the Thematic Map for Pollution	1761
Jae-Moon Park, Hyun-Woo Choi, Hong-Joo Yoon	
Determination of Gross Primary Productivity (GPP) Value for Mangrove Ecosystem Using MODIS Satellite	1766
Ahmad Bin Mohd Khairudin, A. Ibrahim, A. Wahid Rasib	
The Utilitization of Intelligent Geospatial Information for the Implementation of Green Energy Test Bed	1767
Myung Hee Jo, Yunwon Jo, Kyung Jun Kim, Kwang Deuk Kim, Yun Chang Yeol	
Evaluating the Effect of Vegetation Index of SPOT Imagery on the Accuracy of <i>Castanopsis Carlesii</i> Potential Habitat Model	1773
Chun-Hao Tu, Nan-Jang Lo, Wei-I Chang, Kai-Yi Huang	
GIS and Predictive Modeling: a Comparison of Methods Applied to <i>Schima superba</i> Potential Habitat and Decision Making	1779
Hou-Chang Chen, Nan-Jang Lo, Wei-I Chang, Kai-Yi Huang	
Predicting the Suitable Habitat of <i>Brainea Insignis</i> by Using Three Multivariate Statistical Methods with GIS.....	1785
Wen-Chiao Wang, Nan-Jang Lo, Wei-I Chang, Kai-Yi Huang	
Application of Geographic Information Systems (GIS) to Identify Ecotourism Potential Sites of Songkhla Lake Basin, Thailand	1792
Saroj Gyawali, Parichart Visuthismajarn	
Development of Geographical Information System for Investigations of Long-Term Change in Lake Mikatas	1798
Jun Kumagai, Masahiko Nagai, Ryosuke Shibasaki, Gou Matsubara, Tomoyuki Hino	
Natural Disaster Vulnerability Mapping in the Province of Banten, Indonesia.....	1804
M. Khifni Soleman, Agus Hermawan Atmadilaga, Fitri Nurcahyani	
Simulation of Hyperspectral Image Using Multispectral Image for Land Cover Mapping	1808
Jung-il Shin, Kyu-Sung Lee	
An Interoperable Perspective towards the Distribution of 3D Building Data	1814
Shi-Wen Lin, Jung-Hong Hong, Kai-Ling Huang	
Predicting Soil Erosion by Change of Land-Cover and Rainfall Using the Revised Universal Soil Loss Equation	1820
Cheong Gil Jin, Oh Che Young, Cho Kyung Chull, Choi Chul Uong	

Application of Remote Sensing on Carbon Sequestration in Taipei Forestland	1828
<i>Chi-Chuan Cheng, Hsin-Hung Chen</i>	
Historic Shoreline Changes: An Indicator of Coastal Vulnerability to Human Landuse and Development in Kien Giang, Vietnam.....	1835
<i>Hai Hoa Nguyen, David Pullar, Norm Duke, Clive Mcalpine, H. Nguyen, Kasper Johansen</i>	
The Application of VRS-GPS In Land Use Change Surveying.....	1844
<i>Hongbo Jiang, Heng Dong</i>	
Vehicle-Based Mobile Mapping System for the Frequent Unscheduled Revision of National Base Map	1848
<i>Hongsik Yun, Jinsang Hwang, Taejun Jeong, Younghyen Kim</i>	
Modeling the Potential Habitat of <i>Rhododendron formosanum</i> in Huisun by Multivariate Statistical Analysis Coupled with 3S.....	1853
<i>An-Ya Cheng, Nan-Jang Lo, Wei-I Chang, Kai-Yi Huang</i>	
Photogrammetrical Measuring of the Dynamical Deformation of the Joint and the Column Web Panel at Elevated Temperature	1859
<i>K. Pavelka, J. Reznicek</i>	
Development of the Multi-Referential Reverse Dictionary for Interoperating Earth Observation Data.....	1864
<i>Masafumi Ono, Masahiko Nagai, Kenji Sugimoto, Ryosuke Shibasaki</i>	
Integrated Spectral and Spatial Information for Image Classification Based on Support Vector Machine	1869
<i>Jin-Tsong Hwang, Yi-Ting Tsai, Jie-Shi Weng, Si-Han Chen</i>	
Using GIS and Remote Sensing to Monitor Arsenic Dispersal from a Gatsuurt Mining Area, Mongolia.....	1875
<i>N. Gandoljin, B. Batbileg, T. Enkhdul, T. Darjaa</i>	
Monitoring Landscape Changes of Coastal Zone Using Multi-Temporal Remote Sensing Images	1880
<i>Jihh-Fa Jan, Yu-Ching Hsu, Chih-Da Wu</i>	
Computation of Complete Bouguer Anomalies from Marine Gravity Models in East Sea	1886
<i>Dongha Lee, Hongsik Yun, Eunseok Jang, Jeonggi Park</i>	
Monitoring of Landscape Dynamics in a Typical Reservoir System in the Northern Taiwan	1891
<i>Chih-Da Wu, Shih-Chun Candice Lung, Yung-Chung Chuang</i>	
Analysis of Vegetation Indices by Using Hyperspectral Hyperion Data	1897
<i>Nor Liyana Bt Mohammad Khan, Alvin Lau Meng Shin, A. Ibrahim, Raja Elfyda Binti Raja Hashib</i>	
Determination of Net Primary Productivity of Oil Palm Using Modis MOD17A2 Data	1898
<i>Raja Elfyda Binti Raja Hashib, A. Ibrahim, A. Wahid Rasib, Nor Liyana Bt Mohammad Khan</i>	
Improvement of Extract Accuracy for Snow Coverage Area on the Images Using Dynamic Threshold Methodology.....	1899
<i>Kenta Sakata</i>	
Author Index	