

DETAILED PROGRAM

34th Asian Conference on Remote Sensing 2013

Sunday, 20 October 2013

08.00 – 18.00 Registration (Main Lobby)

09.00 – 18.00 : Workshops

Workshop F1.1

Forest Monitoring Systems: Towards Operational Readiness for MRV and REDD+ Activities.

Lecturer: Prof. A.K. Milne, Dr. Anthea Mitchell, Dr. Mark L Williams

1. Mapping Forest and Forest Change
2. Observing Deforestation and Degradation
3. Aboveground Biomass Estimation Strategies
4. Field Sampling and Ground Data Collection
5. Developing National Reporting Systems
6. UNFCCC Greenhouse Gas Emissions Reporting Requirements
7. REDD+ Implementation and MRV

Workshop F2.1

Multi sensors Remote Sensing Technology for Sustainable Disaster Management

Lecturer: Dr. Ryoichi Furuta

A. Fundamentals: "Introduction of Japanese new earth observing satellite "ALOS-2".

- 1.1 Overview of ALOS-2
- 1.2 Improvement from ALOS/PALSAR
- 1.3 Expectations for ALOS-2

B. Tutorials: "Utilization for management of global change"

- 1.1 De-forestation/re-forestation monitoring
- 1.2 Volcanic activities and earthquake monitoring

C. Tutorial: "Utilization for management of disaster due to climate change"

- 2.1 Flood monitoring
- 2.1 Landslides monitoring

Lecturer: Prof. Dr. Armin Gruen

A.Fundamentals

1. Data acquisition in Photogrammetry – concepts and systems
Satellite, standard aerial, UAV and terrestrial approaches
2. The photogrammetric data processing pipeline.
Real-time, on-line and off-line processing,
Emphasis is on the processing of UAV images
 - 2.1. Applications in disaster management
 - 2.2. Sensor models

Monday, 21 October 2013

08.00 -08.45 Registration (Main Lobby)

08.45 - 10.00

Opening Ceremony

1. Welcome address and Committee report: Dr. Dewayany Sutrisno (Chairperson of ACRS 2013 and Indonesian Society of Remote Sensing)
2. Welcome Address from Prof. Dr. Kohei Cho, General Secretary of Asian Association on Remote Sensing (AARS)
3. Keynote and Address by Prof Shunji Murai, Asian Association on Remote Sensing (AARS): "Geospatial Technologies for Disaster Management and Reconstruction
4. Address by Prof. Gusti M. Hatta, Minister of Research and Technology of Indonesia"

Chen Supeng Award

10.00 - 10.20

Coffee break and exhibition (poster session-1)

10.20 - 11.20	Plenary Speeches <i>Remote Sensing Technology and Policy for Geospatial Information Development:</i> <ol style="list-style-type: none"> 1. Dr. Asep Karsidi, Chairman of Indonesian Geospatial Information Agency (BIG) 2. Drs. Bambang Tejasukmana, Dipl.Ing., Chairman of Indonesian National Institute of Aeronautics and Spaces (LAPAN) 3. Dr. Marzan A. Iskandar, Chairman of Agency for the Assessment and Application of Technology - BPPT (Indonesia) 4. Ir. Agoes Widjanarko, MIP, Secretary Ministry of Public Works
11.20 - 12.10	Plenary Speeches <i>Bridging Sustainable Asia</i> <ol style="list-style-type: none"> 1. Prof. Dr. Orhan Altan (ISPRS) 2. Dr Masanori Honma. (JAXA) 3. Dr. José Aguilar-Manjarrez (FAO)
12.10 - 13.00	Lunch and Exhibition
13.00 - 15.00 : Workshops	
Workshop F2.2 Multi sensors Remote Sensing Technology for Sustainable Disaster Management <i>Lecturer: Prof. Dr. Armyn Gruen</i>	
A.Fundamentals <ol style="list-style-type: none"> 1. The photogrammetric data processing pipeline. Real-time, on-line and off-line processing, Emphasis is on the processing of UAV images <ol style="list-style-type: none"> 2.3. Georeferencing/triangulation 2.4. DTM/DSM generation (manually and automatic) 2.5. Ortho-image generation 2.6. Object extraction A. .Training Sessions <ol style="list-style-type: none"> 1. Automated triangulation 	
13.00 - 15.00: Special Sessions	
Session A-1 Business Session <i>PIC : Yosef Prihanto</i> <ol style="list-style-type: none"> 1. Digital Globe 2. Intergraph 3. MDA Geospatial Service Inc. 4. Thales Alenia Space 5. Satcom 6. TSKAY 	Sessions A-2A Capacity Building (JAXA) Session 1 <i>Chair : Dr Lal Samarakoon</i> <ol style="list-style-type: none"> 1. Importance of capacity building in Asia (Prof. Shunji Murai) 2. Capacity building for Asia Pasific regions by JAXA (Mr Toru Fukuda, EORC Director) 3. The case study from experiences of SAFE initiatives on the Lao PDR and Vietnam (Dr. Wataru Takeuchi, UT) 4. Necessity of capacity building in Asia Pacific through to Indonesia activities. (Prof. Tasuku Tanaka, Udayana University) 5. Appraches of Capacity building in Malaysia (Prof, Rashid Shariff, UPM) 6. Appraches of Capacity building in Indonesia (Gajamada University) 7. Discussion and Wrap-up (All)
Sessions A-2B GIS : Data Quality, Standard and Services <i>Chairs:</i> <i>Prof. Jung Hong</i> <i>Dr. Armi Susandi</i> <ol style="list-style-type: none"> 1. Spatial@Localgov.Go.Id, A Census On The Spatial Data Availability And Services On The 	Session A-5 Satellite Program <i>Chair : Chusnul T. Judianto</i> <i>Co-Chair: R. Heru Triharjanto</i> <ol style="list-style-type: none"> 1. LAPAN Satellite Technology Development Program (Suhermanto) 2. Chinese Satellite Program (Gu Xingfa, China)

<ul style="list-style-type: none"> Indonesian Local Government Websites (Heri Sutanta) 2. Implementation Of Standard Operation Procedures For Participatory Mapping In Disaster (Anindita Diah Kusumawardhani, Mulyanto Darmawan, and Adi Rusmanto) 3. A Framework For Scaleless Feature-Based Topographic Map Database (Jung-Hong) 4. Developing Web-GIS For The Provincial Spatial Planning Database (Ilham Alimuddin) 5. Characterization Of Shopping Streets Using Detailed Geographic Information From The Web (Kaoruko Kawachi) 6. Spatial Data Infrastructure To Enhance Efficiency Of The Emergency Mapping Teams (Gregorio Antonio Rosario Michel) 7. Web Map Service Role In Geographic Information System Data Sharing Used In Determining Land-Prices (Muhammad Iqnaul Haq Siregar) 8. Using Open Source Web-Based GIS For Publishing And Querying Cadastral Information In Long Xuyen City, An Giang Province, Vietnam (Hung The Pham) 9. Application Of Online Information System For Delivering The Rice Planting Time Prediction In Indramayu (Armi Susandi) 	<ul style="list-style-type: none"> 3. Gitsda Satellite Program (Dr. Tippawan Wanwiwake) 4. Jaxa's Satellite Program (Mr. Toru Fukuda) 5. Singapore Space Program (Mr. Kwoh Leong Keong) 6. Satellite Program Of Vietnam (Dr. Doan Minh Chung) 7. GOSAT Project for Global Carbon Observation and Carbon Flux Estimation (Prof. Tatsuya Yokota)
<p>Session A-6:</p> <p>LAPAN [RS Technology]</p> <p><i>Chair: Dr. Orbita Roswintiarti</i></p> <ul style="list-style-type: none"> 1. Development and Design of Standard Produk Data Processing and Receiving Ground Station System For Earth Resources Remote Sensing Satellite LDCM [Hidayat Gunawan, Ali Syahputra Nasution, Dinari Niken SS and Ayom Widipaminto] 2. Façade Texture Mapping for Building Models Using TLS Data and Close Range Images [Li-Ling Chan , Liang-Chien Chen] 3. Random Forest Classification of Jambi and South Sumatera using ALOS PALSAR Data [Mulia Inda Rahayu, Katmoko Ari Sambodo] 4. Improving Land use Classification Using Context-Based Technique [Teerapat Butkhot, Pipat Reungsang] 	<p>Session A-6:</p> <p>LAPAN [RS Technology]</p> <p><i>Chair: Dr. Orbita Roswintiarti</i></p> <ul style="list-style-type: none"> 5. Simulation of Synthetic Aperture Radar System Parameters for Light Surveillance Aircraft – LAPAN [Muchammad Soleh, Rahmat Arief, Musyarofah, Ayom Widipaminto] 6. Accuracy Assessment of Worldview-1 Digital Elevation Model [Tuluhan Sıpka, Nebiye Musaoglu] 7. Visible Infrared Imager Radiometer Suite (VIIRS) Active Fires Application Related Products (AFARP) Generation Using Community Satellite Processing Package (CSPP) Software [Budhi Gustiandi, Andy Indradjad] 8. Modeling of Spatial Data Infrastructure to Support Local E-Government Gis: Case Study of Depok City [Riyan Mahendra Saputra]
<p>13.00 - 15.00: Technical Sessions</p>	
<p>Session A-3 SC-02-Methods Development and Image Processing <i>Chairs:</i> <i>Prof. L.C. Chen</i> <i>Prof. Dr. Ir. Hartono, Dess</i></p> <ul style="list-style-type: none"> 1. Reconstructing A Super-resolution Image From 	<p>Session A-4 SC-03-Environmental Science <i>Chairs:</i> <i>Prof. Bruce Forster</i> <i>Ir. M. Helmi, M.Sc.</i></p> <ul style="list-style-type: none"> 1. Effectiveness of Image Characteristics in the Identification of Archaeological Features from

<p>Images With Inconsistent Sub-Pixel Shift: A Case Study of Egepsat-1 Data [Ayman H. Nasr¹, Ashraf K. Helmy¹ and Ghada S. El-Taweel]</p> <ol style="list-style-type: none"> 2. Identification Of Paddy Field From Very High Resolution Image Using Object Based Image Analysis Method. (A Case Study In Rancaekek, Bandung, West Java, Indonesia) [Achmad R. Wasil, Soni Darmawan, Ketut Wikantika] 3. Using Advanced Image Fusion Techniques To Increase The Usability Of Razaksat Data For Map Updating In The Tropics [Christine Pohl, Mazlan Hashim and Mohd Nadzri Md Reba] 4. Multispectral Images and Hyperspectral Data for Healthy Corals Detection on the Small Islands, Spermonde Archipelago, Indonesia [Nurjannah Nurdin, Teruhisa Komatsu, Sumbangan Baja, Chair Rani] 5. Estimation of Net Radiation over Complex Urban Environment -A Case Study of Hong Kong [Nithiyanandam Yogeswaran and Janet E Nichol] 6. Feature Extraction from Worldview-2 High Resolution Multi-Spectral Imagery Using Object-Based Image Analysis [Imdad Rizvi and B.Krishna Mohan] 7. Improved 3D Building Model Extraction from Stereo Pair Worldview-2 Satellite Imageries [Min Li, Leong Keong Kwoh and Soo Chin Liew] 8. Managing the Contributions of the Spectral and Contextual Information in Markov Random Field [John Trinder, Hossein Aghighi] 9. Determination of Characteristic Properties of Rural Residential Areas Using Remote Sensing [Simsek D., Kaya S., Ipbuker C. and Sertel E.] 10. Evaluation of the Simulated At-Sensor Radiance of the Hyper-Spectrometer Payload UAV Platform Using Modtran Model [Yaokai Liu, Ning Wang, Lingling Ma, Lingli Tang and Chuanrong Li] 	<p>High Resolution Satellite Imagery: Case Study in Bangladesh [Md. Saifuzzaman, S. Dara Shamsuddin]</p> <ol style="list-style-type: none"> 2. Evaluation Of IFSAR, SRTM, And ASTER Digital Elevation Models At Mt. Apo Geothermal Production Field Through Static Gps Observations [S. Farley M. Meneses III] 3. Assessment of Agricultural Vulnerability Index: A Case Study in Thailand [Narong Pleerux] 4. Cdom- Indicator of Eutrophication in the Case-2 Water of Mumbai Marine Environment [V.S.Bharti, A.B.Inamdar, C.S.Purusothaman, V.K.Yadav] 5. Assessing Temporal and Spatial Variations of Land Surface Temperature and Urban Heat Island Effects in South East Queensland, Australia [Kasper Johansen, Sabrina Wu, Michael Hewson, Phil Rorke, Somayeh Eskandari, Stuart Phinn] 6. Analysis of the Geometric Accuracy of MSG-SEVIRI Imagery with Focus on Estimation of Climate Variables[Sultan Kocaman Aksakal] 7. Geomorphology and Tectonics of The Piedmont Zone of West Ganga Plain, India: Insights from Integrated Remote Sensing, Gis and Field Based Investigations [P K Goswami] 8. Zooplankton Species Diversity in Relation to Water Pollution in Inle Lake [Nyo Nyo Lwin, Khin Wah Wah, Khin Maung Tun, Kyaw Sann Oo, Maung Maung Gyi] 9. Remote Sensing Based Information And Insurance For Irrigated Rice Crops In Indonesia [Wahyunto]
<p>Session A-7 SC-04-Natural Resources <i>Chairs:</i> <i>Prof. Taijung Kim</i> <i>Prof. Dr. Bangun Mulyo Sukojo, Dess</i></p> <ol style="list-style-type: none"> 1. Urbanization and its Influences on the Suburban Landscape Changes in JABODETABEK Metropolitan Region, Indonesia [Ryota Nagasawa, Asuka Fukushima] 2. Agricultural Land Conversion on Makassar Vicinity [Daniel-Useng] 3. A Paddy's Growth Stages Classification For PiSAR L2 Data Using Fuzzy Model [S. Mulyono, Sumargana, I. Fauziyah, T.A. Pianto] 4. Mapping of Regional Forest Cover Changes in Malaysia Using Moderate Resolution Imaging Spectroradiometer[Mohd Azahari Faidia and Khali Aziz Hamzaha] 	<p>Session A-8 SC-01-Sensor and Platform <i>Chairs:</i> <i>Prof. Fuan Tsai</i> <i>Dr. Ir. Bambang Edhi Leksono</i></p> <ol style="list-style-type: none"> 1. Advanced Small Satellite Constellations For Earth Observation Services [Martin Sweeting, David Hodgson, Pingping Yi] 2. Comparative Study of Wavelets and Contourlets Techniques Applied to Alsat-2 Algerian Satellite Image Fusion [Soumya Ourabia & Youcef Smara] 3. A New C-band SAR Satellite Payload and its Mission Operations Concept for Disasters Management [James Yu-Chen Yaung, Kun-Shan Chen, Shiann-Jeng Yu, Chih-Li Chang, Bor-Han Wu, Ming-Yuan Yeh, Hao-Lun Hung, Chih-Yuan Chu]

<ol style="list-style-type: none"> 5. Geological Structure Detection Digitally Using Synthetic Aperture Radar (SAR) Data [Atriyon Julzarika] 6. Application of new tree species counting method using high- resolution satellite data in an old-growth <i>Chamaecyparis obtusa</i> forest in central Japan [Masato Katoh, François A. Gougeon] 7. Geo-Spatial Analysis of Watershed Environment Using High Spatial Resolution Land Use Data for the Assessment of Soil Erosion in Upper Stream of Solo River, Indonesia [Satoshi Uchida, Yoshiko Iizumi, Shigeki Yokoyama] 8. Application of Neural Network for Rice Crop Yield Prediction Using Multi-temporal MODIS Data in the Mekong Delta, Vietnam [Le Thi Phuong1, Chi Farn Chen] 9. Monitoring Agriculture Drought Using Remote Sensing Data [Ab Latif Ibrahim, Muzhaffar Mohd Zaki, TzeHuey Tam] 10. Soil Moisture Studies in the Philippines Using AMSR-E/AMSR2 [Erika Mari R. Macapagal, Gay Jane P. Perez] 	<ol style="list-style-type: none"> 4. Accuracy Analyses of a Fixed-wing UAV Equipped with SPAN CPT for Direct Georeferencing and DSM Generation [Jiann-Yeou Rau, Chih-Yang Chen, Jyun-Ping Jhan, Kircheis Liu & William Lee] 5. The Inherent Optical Properties (IOPs) Algorithms for Detection the Water Quality in Turbid Waters of Mekong Estuaries [Tong Phuoc Hoang Son, Lau va Khin, Phan Minh Thu] 6. Statistical Modelling of Sea Clutter in Airborne S-band Fully Polarimetric Synthetic Aperture Radar Imagery [Ken Yoong Lee and Timo Rolf Bretschneider] 7. An Advanced Algorithm for the Accurate Interferogram Estimation [Minghuan Yuan, Chou Xie, Yun Shao, and Yunjun Zhang] 8. Disaster Monitoring Constellation Evolution and Development [Owen Hawkins, James Penson, Andrew Cawthorne, Alex Da Silva Curiel, Benjamin Stern]On the Geometric Stability of Light Weight UAS Camera [Peter Tian-Tuan Shih and Tee-Ann Teo] 9. Development of a Small UAV -Based Measurement System for Rice Plant Monitoring Using a Line Laser-Scanner [Kazuyoshi Takahashi]
15.00 - 15.30 Break and exhibition (poster session-2)	
15.30 - 17.30:: Workshops	
<p>Workshop F2.2 Multi sensors Remote Sensing Technology for Sustainable Disaster Management <i>Lecturer: Prof. Dr. Armyun Gruen, RongJun Qin</i></p> <p>A. Training Sessions</p> <ol style="list-style-type: none"> 1. Automated triangulation 2. DSM generation 3. Ortho-image generation <p>B. Panel Discussion</p> <p>C. Participants Closing Notes</p>	<p>Workshop F3.1 Joint Workshop with ISPRS WG IV/7 and ACRS2013 <i>Chair: Masafumi Nakagawa</i></p> <ol style="list-style-type: none"> 1. Point Cloud Registration for Indoor Mapping using Time-of-flight Camera [Kenta Ochiai, Masafumi Nakagawa] 2. Augmented Reality Applications in The World Heritage Iwami Ginzan Silver Mine [Keisuke Kimoto, Shozo Nishimura, Aoki] 3. Smart Indoor Advertising Billboards [Abolghasem Sadeghi-Niaraki, Bahman Jamali, Reza Arasteh] 4. A Study on Camera Calibration of Smartphones or Tablet PCs [Sendo Wang, Chieh-Hsin Liou] 5. Integration of BIM and GIS for Indoor and Outdoor Combined Route Planning [Kuan-Hsun Cho, Tee-Ann Teo] 6. Point cloud clustering using a panoramic layered range image [Masafumi Nakagawa, Kounosuke Kataoka, Shouta Ouma]
15.30 - 17.30: Special Sessions	
<p>Session B-1 Business Session <i>PIC: Yosef Prihanto</i></p> <ol style="list-style-type: none"> 1. Astrium 2. ST Electronic 	

<ol style="list-style-type: none"> 3. Nusantara Estate Crop Reaseach (RPN) 4. SKYE Instruments 5. CODAR Ocean Sensors 6. TSKAY 	
<p>Session B-5 Satellite Program <i>Chair: Dr. Rokhis Komarudin</i></p> <ol style="list-style-type: none"> 1. Nspo's Satellite Program [Franz Ming-Chih Cheng, Ph.D.] 2. Development Of Lapan-A3/Ipb Satellite An Experimental Remote Sensing Microsatellite [Mr. Wahyudi Hasbi] 3. Norway Satellite Program And Global Ground Station Network Services Of KSAT- [Mr. Kenneth Olafsson] 4. Indian Remote Sensing Satellite Program (Dr. Jai Singh Parihar) 5. Satellite Mission Requirement As An Input For The National Satellite Development Program, [Dr. Dony Kushardono] 6. Development Of The Satellite Ground Control Systems for Kompsat Series Satellites And Coms. [Mr. Byoung-Sun Lee] 	<p>Session B-6 LAPAN (RS Application) <i>Chair : Ir. Dedi Irawadi</i></p> <ol style="list-style-type: none"> 1. Determination of Stratification Boundary for Forest and non Forest Multitemporal Classification to Support Redd+ in Sumatera Island [Tatik Kartika, Inggit Lolita Sari, Bambang Trisakti] 2. Multitemporal and Spectral Indices Analysis for Detecting ForestDegradation in West Kalimantan Using Spot-4 Data [Parwati Sofan, Yenni Vetrira, M. Rokhis Khomarudin] 3. Comparing Classifier Performance for Crop Identification in Multi-Temporal Images, Mianeh, Iran[Hamid Salehi, Ali Akbar Matkan, Davoud Ashourloo] 4. Mapping CDOM Distribution in Berau Delta, East Kalimantan from Remote Sensing[Syarif Budhiman, Wiwin Ambarwulan, Widiatmaka] 5. Building Detection from polarimetric SAR images with an object-oriented method[Junjie Zhu, Xiangtao Fan, Xiaoping Du, Huadong Guo] 6. Comparison of Three Methods for Shorelines ExtractionBased on Digital Image Processing of SPOT-4[Emiyati, Syarif Budhiman, Ety Parwati] 7. Utilization of Multi Temporal SAR Data for Forest Mapping Model Development[Bambang Trisakti, Rossi Hamzah]
<p>15.30 - 17.30: Technical Sessions</p>	
<p>Session B-3 SC-02-Methods Development & Image Processing <i>Chairs: Prof. L.C. Chen Prof. Dr. Hartono, Dess.</i></p> <ol style="list-style-type: none"> 1. A Simple Measure for Estimating Confidence at Pixel Scale in Fuzzy Land Cover Classification [M.S. Ganesh Prasad, M.K. Arora] 2. Identifying Natural Revegetation of Mine Waste Using Compact Polarimetry [Bambang Hendro Trisasonko] 3. Study of 2010 Eruption of Merapi Volcano, Indonesia Using ALOS PALSAR Interferometry [Ka Ming CHUA, Jie WU, Jean-Claude THOURET, Soo Chin LIEW] 4. Investigating Surface Deformation of Small Islands by Persistent Scatterer InSAR [Chang-Xing Tsai, Joz Wu] 5. Automation of V-I-S Model Using Matlab&Simulink on User Selected Areas [Sinasi Kaya, Fikret Pekin, Dursun Z. Seker] 6. Fully Automatic Object-oriented Hierarchical 	<p>Session B-4 SC-03-Environmental Science (Ocean Colors) <i>Chairs: Prof. Hubert Hoisel Ir. M. Helmi, M.Sc.</i></p> <ol style="list-style-type: none"> 1. Analyses of the Bio-Optical Variability of Vietnams Coastal Surface Water for Ocean Color Remote Sensing Applications [Nguyen. Quynh.Anh, Hubert Loisel, Sylvain Ouillon, Xavier Mériaux, Jean-Pierre Lefebvre, Xavier Mari] 2. Development of SPM algorithm for ocean color remote sensing. Application to the Mekong delta [Dinh Ngoc Dat, Hubert Hoisel, Vincent Vantrepotte, Antoine Mangin] 3. Seawater-type Based Neural Networks for Ocean Color Data Inversion [Ari Saptawijaya, Davide D'Alimonte, Tamito Kajiyama] 4. Removing the Ambiguity Associated with the Attenuation Coefficient Products Derived From Satellite Ocean-color Measurements [Zhongping Lee, Chuanmin Hu, Shaoling Shang, Keping Du, Marlon Lewis, Robert Arnone, Robert Brewin] 5. Assessment of Primary Production in the Gulf of

<p>Classification for Detailed Land-cover Updating with High Spatial Resolution Imagery [Wu Tianjun, Xia Liegang, Luo Jiancheng, Hu Xiaodong, Huang Qiting, Zhou YaNan]</p> <ol style="list-style-type: none"> Monitoring the Thinning of Aged Lakes Using Satellite Remote Sensing [Kyaw Sann Oo, Khin Maung Tun and Maung Maung Gyi] Estimating Impervious Surfaces Area using MODIS Data in Indonesia [Fajar Setiawan, Bunkei Matsushita, Hendro Wibowo, Luki Subehi, Takehiko Fukushima] The Study on the Radiometric Calibration and Bad Pixels Repair by Smoothing Method for Shortwave Infrared Hyperspectral Image [Long-Jeng Lee, Yuan Shen] Urban Land Cover Mapping Using Optical and SAR Images [D. Amarsaikhan, A.Munkh-Erdene, and V.Battsengel] 	<p>Thailand Using Ocean Color Remote Sensing [ThassawanHanuphab,Tachanat Bhatrasataponkul]</p> <ol style="list-style-type: none"> Investigation of algal biomass dynamics and upwelling on the southern Queensland continental shelf, Australia from ocean colour satellite data[Dien V. TRAN , Albert GABRIC, Roger CROPP] Estimation of Ocean Primary Production using MODIS Satellite Data in Straits of Malacca [N. S. Mat Nor, A.W. Rasib, K. D. Kanniah, M. Z. A. Rahman, W. H. W. Kadir, A. R. M. Yusoff, A. L. M. Shin, A. Ariffin and S. Amerudin] Wreckage of glaciers over central Qinghai -Tibet Plateau from multi mission satellite data and its relationship with climate change [Ke Linghong, Ding Xiaoli, Song Chunqiao] Changes in land surface biophysical properties from the Global LAnd Surface Satellite (GLASS) products [Shunlin Liang, Q. Liu, Z. Xiao, X. Zhao, J. Cheng, X. Zhang, Y. Qu, X. Cheng, S. Liu, W. Yuan] The Simultaneous Retrieval of Land Surface Temperature and Emissivity from Satellite Observation [Meng-YueLin, Chian-Yi Liu, Tang-Huang Lin, Gin-Rong Liu]
<p>Session B-7 SC-04- Natural Resources <i>Chairs:</i> <i>Prof. Dr. Bangun Mulyo Sukojo, M.Sc.</i> <i>Prof. Taejung Kim</i></p> <ol style="list-style-type: none"> Rice Monitoring with Polarimetric RADARSAT-2 Data[Yun Shao, Kun Li, Brisco Brian] EOF Analysis For Spatio-temporal Variability In Groundwater And Rainfall Data[Javeed, Y., Sekhar, M] A Review on Crops Nutrien Retrieval from HyperspectralRemote Sensing Imagery [Masayu Norman, Laili Nordin, Fazly Amri Mohd, Mohd Rizaludin Mahmud] The Urban Expansion to Durian Orchard in Nonthaburi[Romanee Thongdara, Pakawat Tanachaikhan, Kasem Kulpradit, Anisara Pensuk Tibkaew] An Approach to Accurate Validation of Change Detection Retrieval of Land Cover Based on Change Vector Analysis Algorithm[Duy Nguyen, Giang Tran] Assessment of Blaney-Criddle Equation for Calculating Reference Evapotranspiration with NOAA/AVHRR Data[Ali Rahimikhoob] Analysis Of Buildup Land Growing Based OnLandcape Fragmentation And Its Effect To Runn Off In The Das Cilliwung Hulu, Bogor, Indonesia [Khursatul Munibah, Boedi Tjahjono] 	<p>Session B-8 SC-11-Mapping <i>Chairs:</i> <i>Dr. Takuhiko Murakami</i> <i>C.E. Joanna Tan</i></p> <ol style="list-style-type: none"> Digital Elevation Model Using Alos-Prism Stereo Pairs over Penang, Malaysia [C.E. Joanna Tan, M. Z. MatJafri and H. S. Lim] Pole-like Roadside Objects Extraction from Mobile Lidar Point Clouds [Chi-Min Chiu, Tee-Ann Teo] Automated but Accurate Georeferencing of High Resolution Satellite Imagery Using Digital Maps [Jaehong Oh] Acquiring Underwater DSM Using Aerial Imagery [Ke-Chin Hong,Chi-Kuei Wang] Using Mobile Mapping Systemand Geospatial Data to Reconstruct three Dimensional Road Model [Kai-Lun Shih, Fuan Tsai] Assessment of Steroplottting Procedure for Small Format Aerial Photographs to Generate DTM Data [Harintaka] Airport Environmental Noise Mapping and Land use Management as an Environmental Protection. The Case of the Adisucipto International Airport (Yogyakarta, Indonesia) [Indra Furwita Soaleh, Nurul Ihsan Fawzi, Aji Saka] KOMPSAT-3 Geometric Quality Assessment [Dr. DooChun Seo] Geospatial strategy for wasteland mapping: a

<p>8. Applications of Aster and ETM images Data in Detection of Gold-Bearing Alteration Zones in South Eastern Desert of Egypt[Mohamed F. Sadek; Safaa M. Hasan ; Safwat Gabr]</p> <p>9. Medium Resolution Studies of Rice Suitability Areas in Papua New Guinea Using Existing GIS Data Base and Satellite Images[Sailesh Samanta, Dilip Kumar Pal]</p> <p>10. Capabilities of the DMC Constellation and Applications of its Imagery for Tropical Forest Mapping and Monitoring[Katarzyna Wisniewska, Paul Stephens]</p>	<p>case Study of Panchkula district of Haryana[Vandana Tomar, Pavan Kumar]</p> <p>10. Developing The National Standard Of Landsystem Map Revision: Case Study Jawa Island [Nurwadjedi, Suprajaka, Fandy Tri Admadja]</p>
<p>17.30 - 18.00</p>	<p>Poster Session-3</p>
<p>19.00 - 21.00</p>	<p>BANQUET AND CULTURAL NIGHT</p>
<p>Tuesday, 22 October 2013</p>	
<p>08.20 - 08.40</p>	<p>Plenary Speeches <i>The Future Of Remote Sensing Technology</i></p> <ol style="list-style-type: none"> 1. Dr Haryono, DG of IAARD, Ministry of Agriculture (Indonesia) 2. Dr. Masanobu Shimada (JAXA)
<p>08.40 – 10.40: Workshops</p>	
<p>Workshop G1.1 Food Security (GEOGLAM – AsiaRiCE) and Crop Monitoring (APRSAP – SAFE)</p> <p>Welcome speech and Opening:</p> <ol style="list-style-type: none"> 1. Welcome Speech (DG of IAARD) 2. Overview of GEOGLAM (Dr. Jai Singh Parihar) 3. Overview of Asia-RiCE for GEOGLAM (Dr. Shin-ichi Sobue) 	<p>Workshop G2.1 HF Radar Operation & Application</p> <ol style="list-style-type: none"> 1. Principles of operation & data products 2. State-of-the-Art in HF radar technology 3. Data visualization & QA/QC 4. Introduction to US National and Global HF Radar Networks
<p>08.40 – 10.40: Special Sessions</p>	
<p>Session C-4 Forest Biomass Monitoring <i>Chair:</i> <i>Dr. Ir. Ruandha Agung Sugardiman, M.Sc</i></p> <p>Welcome Address and Opening Remarks by Ir. Bambang Soepijanto, M.M/ Director General of Forestry Planning, Ministry of Forestry</p> <p>Part 1</p> <ol style="list-style-type: none"> 1. Indonesian National Forest Monitoring System (NFMS)/ Ir. Yuyu Rahayu, M.Sc. (MoF, Indonesia) 2. Stratified Monitoring and Assessment/ Ir. Iman Santosa, M.Sc. (MoF, Indonesia) 3. Discussion <p>Part 2</p> <ol style="list-style-type: none"> 4. Advanced remote sensing techniques for forest monitoring on local, regional and national level: multi-sensor assessment of forest degradation, forest biomass and carbon emissions for MRV/ (Florian Siegert, Ludwig-Maximilians-Universität Munich) 5. Characterizing forest degradation and 	<p>Session C-5 Remote Sensing for Climate Change and Climate Variability <i>Chairs:</i> <i>Drs. Budi Suhardi, DEA</i> <i>Dr. Dodo Gunawan</i></p> <ol style="list-style-type: none"> 1. Application of remote sensing satellite in aerosol detection and forest fire smoke haze dispersion in Riau Province Indonesia (Sheila Kusumastuti) 2. Simulation of Mount Merapi Volcanic Ash Dispersion using The Hysplit Dispersion Model (Dodo Gunawan) 3. General Characteristics of Rainfall in Maritime Continent Observation using TRMM Satellite-Based High-Resolution Rainfall Products [Abd. Rahman As-syakur, Tasuku Tanaka, and Takahiro Osawa] 4. Air Quality Mapping Retrieval over Penang Island, Malaysia (Hwee Sam Lin) 5. Analysis of Present and Future Climate Scenarios of Tea Growing Areas in Northeast India (Rishiraj Dutta) 6. Potential Use of GOSAT (Greenhouse Gas

<p>assessment of above ground biomass using multiple sar approaches: Case study of tropical peatland forests in Sumatera, Indonesia/ (Arief Wijaya, CIFOR)</p> <p>6. Discussion and Closing Session</p>	<p>Observing Satellite) to Monitor Carbon Concentration of Column Density in the Atmosphere (M. Evri)</p> <p>7. Discussion and Closing Special Session</p>
<p>Session C -2A/C-6 WEBCON3, White Elephant and Student Session Part 1: WEBCON</p>	
<p>08.40 – 10.40: Technical Sessions</p>	
<p>Session C-1 SC-02-Methods Development and Image Processing Chairs: Prof. L.C. Chen Tanakorn Sritarapipat</p> <ol style="list-style-type: none"> 1. An Analyze of a Backpropagation Neural Network in the Identification of Critical Land Based on Alos Imagery [Nursida Arif, Projo Danoedoro] 2. Classification of Oblique Aerial Imagery Using Object-based Image Analysis Method [Jyun-Ping Jhan, Ya-Ching Hsu and Jiann-Yeou Rau] 3. Accuracy Comparison Between NDVI and SAVI for Vegetation Canopy Density Mapping Using Landsat 7 ETM+ [Tegar Adi Purwanto, Sri Lestari and Eni Susanti] 4. Analysis of SPOT-6 Data Fusion Using Gram-Schmidt Spectral Sharpening on Agriculture Land [Danang Surya Candra] 5. The Effect of Extraterrestrial Solar Model and Spectral Differences on Cross Calibration [Morakot Kaewmanee] 6. Pseudo-Variant Features Analysis of Landsat Imageries for Change Detection of Mangrove Forests in Belizean Coastal Areas [C.F. Chen, L.C. Chang, N.T. Son, L.Y. Chang, C.R. Chen] 7. Sea Surface Temperature Measurement from TMI and MODIS Data [Yennie Marini, Gathot Winarso, Anang D.P., Anneke K.S. Manoppo] 8. Landcover classification: Does Airborne LiDAR Alone Capable of Producing Good Quality of Landcover Map? [M. Z. Abd Rahman, Z. Ismail, A. W. Rasib, W. H. W. Kadir and A. Ariffin] 9. Qualitative As Well As Quantitative Relative Orientation In Multi-media Photogrammetry [Sheng-Jih Huang, Jen-Jer Jaw] 10. Urban Expansion Monitoring Using MODIS NDVI Time Series [Tanakorn Sritarapipat and Preesan Rakwatin] 	<p>Session C-2B SC-05-Hazards Chairs: Dr. Nguyen Dinh Duong Warren Cartwright</p> <ol style="list-style-type: none"> 1. Application of Satellite and Doppler Radar Image In the Typhoon Rainstorm of Bolaven [XiangDong Yang] 2. Monitoring of Merapi Volcano Deformation Using Interferometry Synthetic Aperture Radar (INSAR) Technique [Ayu Margaworo Pamungkas] 3. Measuring Community Resilience on Disaster Risk Management: River Flooded Settlement Areas in Nepal [Arbind Tuladhar, Chinnapan (Makpiboon) Charoenkalunyta] 4. RADARSAT-2, For Broad-Area Disaster Management For Floods [Warren Cartwright] 5. Relationship between the landslide distribution and the drainage basin morphology: case from Typhoon Morakot [Chung-Pai, Chang, Yi-Chun, Hsu] 6. Integrated Use of GRACE-Derived Terrestrial Water Storage Changes and MODIS Vegetation Indices for RS-Based Drought Monitoring [Anjillyn Mae C. Perez, Ariel C. Blanco] 7. Mapping the Landslide Susceptibility and Risk of Hong Kong by Remotely-Sensed Imagery [Junyi Huang, Qiming Zhou, Daqi Yu] 8. Radioactive Contamination Estimate of Genkai Nuclear Power Plant [Kotaro Tobiishi and Susumu Ogawa] 9. Methodology for monitoring and assessment of Desertification in Arab Countries by using Space Technology data [Prof. Mohamad Rukieh] 10. Thermal Anomalies and Sea Surface Height Changes Associated With the Sumatera Earthquakes of February 2008 [Shattri Mansor and Habibeh Valizadeh Alvan]
<p>Session C-3 SC-03-Environmental Science Chairs: Rishiraj Dutta Hamideh Nouri</p>	<p>Session C-7 SC-04-Natural Resources Chairs: Dr. Christopher D. Elvidge Prof. Dr. Sumbangan Baja</p>

<ol style="list-style-type: none"> 1. Estimation of Urban Evapotranspiration through Vegetation Indices Using WorldView2 Satellite Remote Sensing Images[Hamideh Nouri, Simon Beecham, Sharolyn Anderson, David Bruce] 2. Secondary Pollution Budget of Fukushima Nuclear Power Plant[Susumu Ogawa, Yasuyuki Sakata] 3. The Discrimination between Smoke Plumes and Anthropogenic Pollutants with MODIS Data [Wei-Hung Lien] 4. Diffusion Mechanism of PM 2.5 In East Asia Based on GIS and RS[Shi Xiao, Susumu Ogawa, Jiang Yujing] 5. Spatial Habitat Degradation Due to Human Inhibition in Respective Areas of Inle Lake[Maung Maung Gyi , Nyo Nyo Lwin, Theingyi Soe Myint, Yee Yee Lwin, Khin Maung Tun, Kyaw Sann Oo] 6. Validation of a NIR-red-based algorithm for estimating chlorophyll-a concentration in several Asian Lakes[Bunkei Matsushita, Wei Yang, Youichi Oyama, Takehiko Fukushima, Luki Subehi, Fajar Setiawan] 7. "In the name of Allah the beneficent the merciful"Evaluation of the urban land use change and transit oriented development (TOD) in Kuala Lumpur by GIS [SAHAR HEIDARI] 8. Analysis of Present and Future Climate Scenarios of Tea Growing Areas inNortheast India [Dr. Rishiraj Dutta] 9. Spatial Distribution Characteristics of Seasonal Thermocline in Korea[Dong-Young Yoon, Hyun-Woo Choi] 10. Determination of Soot Aggregates Mixing Weight for Dust Optical Property with Satellite and Ground Observations[Kuo-En Chang, Tang-Huang Lin] 	<ol style="list-style-type: none"> 1. Canopy height estimation of secondary broadleaved forest using digital aerial photo images and airborne LiDAR data[Takuhiko Murakami, Yuka Watanabea and Shota Mochizuk] 2. Development of Mounted Hyperspectral Sensor on UAVfor Environmental and Agricultural Studies [Genya Saito, Haruyuki Seki, Kuniaki Uto, Yukio Kosugi] 3. Can A Flood Be Classified As Either A Merit Or Demerit In Siberia?[Toru Sakai, Tetsuya Hiyama, Yasushi Yamaguchi] 4. The Fate of Tropical Forest in Central Sumatra: Mapping, Modeling, and Scenarios Analysis Using Palsar Data[Rajesh Bahadur Thapa, Masanobu Shimada, Manabu Watanabe, Takeshi Motohka, and Tomohiro Shiraishi] 5. Determination of Quality of Green Open Space Using Worldview 2 Satellite Imagery(Case Study Kecamatan Bogor Tengah, Bogor)[Fauzy Rachman, Janthy T. Hidayat,Edy Mulyadi] 6. Estimating Spatial Distribution of Biomass Changes in InnerMongolia Grassland by Satellite Images[Zhe Gong, Kensuke Kawamura, Naoto Ishikawa, Masakazu Goto, Wulantuya, Jin Hai] 7. Classification of RADARSAT-2 full polarization time-series for irrigated rice plantation and yield estimation[Chonthicha Chitpaiboon, Amornchai Prakobya, Jiratiwan Kruasilp] 8. Fuzzy Based Decision Analysis in Land use Planning[Sumbangan Baja] 9. Calculating the Value of Natural Gas Lost to Flaring Using SNPP VIIRS Data[Christopher D. Elvidge , Mikhail Zhizhin, Feng-Chi Hsu, Kimberly E. Baugh] 10. Detection of Vertically and Horizontally Stacked Underground Utility Pipelines Using Non-Destructive Testing Technique[Siow Wei Jaw and Mazlan Hashim]
--	---

10.40 - 11.10 Coffee break and exhibition (Poster session 4)

11.10 – 13.10: Workshops

<p>Workshop G1.1 Food Security (GEOGLAM – AsiaRiCE) and Crop Monitoring (APRSAP – SAFE)</p> <p>Session 1 Food Security Asia-RiCE& SAFE <i>Chair: Dr. Jai Singh Parihar</i></p> <ol style="list-style-type: none"> 1. SNPP data access for agricultural monitoring (Dr. Chris.Elvidge) 2. Rice crop monitoring in Indonesia (Dr. Muhrizal Sarwani) 3. Rice crop monitoring in Thailand (Dr. Preesan Rakwatin) 4. Rice crop monitoring in Vietnam (Dr. Lam Dao Nguyen) 	<p>Workshop G2.2 HF Radar Operation & Application</p> <ol style="list-style-type: none"> 1. Search and rescue applications 2. Pollution floatables tracking 3. • Deepwater Horizon, model validation
---	--

<ol style="list-style-type: none"> 5. Rice statistics in Cambodia (Mr. Ouk Saroeun 6. MAFF in Cambodia) 7. Earth Observation data for rice monitoring (Dr. Thuy Letoan, CESBIO) 	
11.10 – 13.10: Special Sessions	
<p>Session CD-2A/D-6</p> <p>WEBCON3, White Elephant and Student Session</p> <p>Part 2: White Elephant</p> <ol style="list-style-type: none"> 1. Thesis Writing (Prof. Armin Gruen) 2. Proposal Writing (Dr. Suvit Vibulsresth) 3. Presentation Technique (Prof. Shunji Murai) 	<p>Session D-3</p> <p>Tropical Peatland</p> <ol style="list-style-type: none"> 1. Integrated MRV System for REDD+ Program (Mitsuru Osaki/Hokkaido University) 2. Hyper-spectral sensor and its application on forest-carbon monitoring (Kazuyo Hirose/JSS) 3. The application of UAV's - capability and strength (JokoPurwono& team/BPPT) 4. Micro-satellite technology for forest/land monitoring (Yukihiro Takahashi/Hokkaido University) 5. AMI-LCTF sensor and analysis using UAV (Junichi Kurihara/HU, Segah/UNPAR and M. Evri/BPPT) 6. GOSAT analysis and application on GHG's monitoring on tropical region (M. Evri/BPPT) 7. Application of Hyperspectral Data for Discriminating Tree Species (LajuGandharum/BPPT)
11.10 – 13.10: Technical Sessions	
<p>Session D-1</p> <p>SC-02-Methods Development and Image Processing</p> <p><i>Chairs:</i> <i>Prof. L.C. Chen</i> <i>Dennis Helder</i></p> <ol style="list-style-type: none"> 1. The Difference of Ground Penetration between Full-waveform LiDAR and Discrete LiDAR in Forested Mountainous Terrain of Taiwan [Wei-Cheng Hsu, Li-Wei Wu, Jin-King Liu] 2. PS-InSAR for Large-Scale Subsidence Estimation In Central Taiwan - Preliminary Study For Future Project [Chia-Hsiang Yang, Jaan-Rong Tsay, Po-Tsung Su] 3. Object Based Image Analysis (OBIA) for Land Cover Mapping in a Heterogeneous Landscape : A Comparison of Sample Based and Rule Based Classification [Saddam Hussein] 4. Hyperspectral Image Destripping with a Spectral-Spatial Adaptive Regularization Model [Qiangqiang Yuan, Liangpei Zhang, Huanfeng Shen] 5. Region-Based Road Extraction from High Resolution Satellite Imageries Based on Fuzzy Inference [Mehdi Maboudi and Jalal Amini] 6. The Influence of Pacific and Atlantic SST on the Precipitation/Greenness in Costa Rica [Miguel Valdez Vasquez and Chi-Farn Chen] 7. Intelligent Geo-Search System: A Semantic Aware Method for Retrieving Remote Sensing Images [Dimitris Sykas, Alkyoni Baglatzi, George Vafiadis] 	<p>Session D-2B</p> <p>SC-05-Hazards</p> <p><i>Chairs:</i> <i>Dimitris Sykas</i> <i>Khomsin</i></p> <ol style="list-style-type: none"> 1. Sea Level Rise Phenomena Monitoring in Indonesia Using Altimetry Satellite Jason 2 [Khomsin,Nur Rahman Haris Alfian] 2. The influence of sea surface temperature on tropical cyclone formed in the Bay of Bengal [M. Rafiuddin] 3. A radar-based method for detecting tsunami devastated areas using machine learning algorithm [Hideomi Gokon, Joachim Post, Enrico Stein, Sandro Martinis, André Twele, Matthias Mück, Shunichi Koshimura] 4. Integrating GIS and Remote Sensing Techniques for Studying Forest Fires [Dimitris Sykas, Vijay Kumar Vohora] 5. Novel Approach to Accurate and Rapid Flood Mapping Using Single SAR Image [Chathura Hasanka Wickramaisnghe, Dr Lal Samarkoon, Dr. Manzul Kumar Hazarika, Mr. Ro Narith, Mr. Prak Kimhong] 6. The Possibility of Earthquake Prediction by Combining Long Term Approaches and Short Term Precursory Events [Habibeh Valizadeh Alvan, Farid Haydari Azad] 7. The Drought Monitoring in Thailand using MODIS Data [Suwalak Nakya, Thanwarat Anan, Yotthaphom Pothiracha, Thitawadee

<ol style="list-style-type: none"> 8. Multi-Source Information Fusion Based On Spectral Analysis with High Resolution Imagery [Yuhendra] 9. Multi-Temporal Cloud Detection Method for Remotely Sensed Data over Heterogeneous Land Surface Reflectance [N. Roslan, M.N.M. Rebaand M. Askari] 10. Absolute Radiometric Calibration Using Pseudo Invariant Calibration Sites [Dennis Helder, Nischal Mishra] 	<p style="text-align: right;">Suvachananon, Donlaphon pimpichai]</p> <ol style="list-style-type: none"> 8. The Application of Analytic Hierarchy Process for Landslide Susceptibility in Pac Nam Mountain, Bac Kan Province, Vietnam [Nguyen Dinh Tai, Nguyen Ngoc Thach] 9. Integration of Remote Sensing Data With a Numerical Model to Prepare Accurate Flood Hazard Maps for Effective Flood Management in the Mekong Delta [A. Bormudoi, Dr. M. K .Hazarika, Dr. Hoang Quang Huy, Dr. L. Samarakoon] 10. Peatland Fires Monitoring in Kalimantan and Sumatra: The Recent MODIS Hotspots Data [Nina Yulianti, Hiroshi Hayasaka, Aswin Usup, Alpon Sepriando]
<p>Session D-4 SC-03-Environmental Science <i>Chairs:</i> <i>Sujittra Charoenhirunyinygos</i> <i>S. Farley M. Meneses</i></p> <ol style="list-style-type: none"> 1. Monte Carlo Simulations of the Sea-surface Reflectance for Above-Water Radiometric Applications [Dr. Davide D'Alimonte Sr.] 2. Enhancing the Operational Hydrologic Forecast by Simultaneous Assimilation ofSatellite-based Soil Moisture and In-situ Streamflow[Fangni Lei, Huanfeng Shen, Chunlin Huang] 3. Integration of Multitemporal Satellite Images and Historical Maps for Wetland Multi-Scale Monitoring[Ming-Chee Wu , Mon-Shieh Yang] 4. Evaluation of IFSAR, SRTM, and Aster Digital Elevation Models at Mt. Apo Geothermal Production Field Through Static GPS Observations[S. Farley M. Meneses] 5. Estimation of Hydrodynamic Roughness Over Land Using Lidar Data: A Case Study in Hutan Rekreasi Ayer Keroh, Melaka[Siti Idayu Binti Mohamad Aseham, Wahid Bin Rasib, Abdul Razak Bin Yusoff] 6. Remote Sensing of Vegetation Change along the Altitude Gradient in Jade Dragon Snow Mountain Using Multi-temporal LANDSAT Data[Quanjun Jiao, Ru Li, Yanhong Wu, Yuemin Yue, Bing Zhang] 7. Water level changes in alpine lakes on Tibetan Plateau and its implications for climate impact[Chunqiao Song, Bo Huang] 8. Greenhouse Gas Inventories in Thailand[Sujittra Charoenhirunyinygos, Phawinee Pengphet, Supannika Koeysin] 9. Building High-Resolution Population Dataset with Aster-derived Urban Area Map and Existing Population Data [Heromiya, Shiba, Iwao Koki] 10. A Validation and Intercomparison of Satellite-derived CO₂ Profiles with Aircraft 	<p>Session D-5 SC-09-Geographical information system & remote sensing input <i>Chairs:</i> <i>Prof. Kiichiro Kumagai</i> <i>Wuletawu Albera</i></p> <ol style="list-style-type: none"> 1. Application of RS and GIS in Selecting Habitable Site Without Imbalancing the Ecosystem in the Himalayan Region, India[Dr. S. K. Sharma] 2. Sharing and integrating remote sensing and GIS models based on Web service for Pearl River Delta water environment monitoring[Zeqiang Chen, Hui Lin, Min Chen, Yuling Ding, Yin Bao, Chunxiao Zhang, Deer Liu] 3. Real-time Dynamic Visualization Techniques for the Massive Geospatial Data[Zhou Yanan, Luo Jiancheng, Hu Xiaodong, Shen Zhanfeng, Wu Tianjun] 4. Evaluation Analysis of Estimation of Population Distribution by DMSP/OLS Satellite Images Using GPS Log Data of Mobile Phones[Yuki Akiyama] 5. Update of Mongolian Disaster Management Database by RS Data[V.Batsaikhan1 and D.Amarsaikhan] 6. Assessing Land use Dynamics Using GIS-Based Cellular Automata and Markov Chain[Nurmiaty, Sumbangan Baja] 7. uDig Spatial Toolbox: A Specialised GIS tools for Hydro-Geomorphological Analysis[Wuletawu Abera, Giuseppe Formetta, and Riccardo Rigon] 8. Modeling Spatial Process of Property Sales in Malaysia[Ebrahim Jahanshiri, Taher Buyong, Abdul Rashid Mohammed Shariff] 9. Development of Local Social Sustainability Index for Local Sustainability Assessment Using GIS and Factor Analysis[Suriporn

Observations [Sanggyun Lee, Jungho Im]	Charungthanakij, Sunya Sarapirome]
<p>Session D-6 SC-02-Methods development and image processing Chairs: <i>Dr. Masanobu Shimada</i> <i>Dr. Agustan</i></p> <ol style="list-style-type: none"> 1. Landslide investigation and measurement in Hong Kong based on improved PSInSAR approach (Dr. Rui Zhang) 2. Tree Height Estimation in Tropical Rain Forest Landscape Using IFSAR data (Ms. Suraya Jamaluddin) 3. Mitigation of Atmospheric Delay from InSAR processing over Datun Volcanoes Ship detection in airborne S-band polarimetric synthetic aperture radar imagery (Dr. Chi Lien HunKen Yoong Lee) 4. Japan – Indonesia Pi-SAR-L2 Campaign in 2012 (Dr. Masanobu Shimada) 5. Identifying Ships in Lembeh Strait based on Pi-SAR L-2 Airborne Campaign (Ms. Ariani Andayani) 6. Jakarta Land Subsidence and Inundation Vulnerability Based on SAR Data (Dr. Agustan) 7. Potential of forest degradation monitoring using high resolution L-band Synthetic Aperture Radar data (Dr. Takeshi Motohka) 8. Stem Volume Estimation and Mapping using ALOS PALSAR L-Band Backscattering for the Coniferous Forests at Japan (Kotaro IIZUKA, Ryutaro TATEISHI) 9. Semi-automatic Ship Detection using Pi-SAR-L2 Data [Katmoko Ari Sambodo] 10. Correlations between Forest Biomass and Full Polarimetric Parameters Derived from Pi-SAR-L2 Data for a Site in Riau Province, Indonesia [Manabu Watanabe, Takeshi Motohka, Tomohiro Shiraishi, Rajesh Bahadur Thapa, Noriyuki Kawano, and Masanobu Shimada] 	<p>Session D -7 SC-04-Natural Resources Chairs: <i>Prof. Taejung Kim</i> <i>Satoshi Nakamura</i></p> <ol style="list-style-type: none"> 1. Groundwater Level Estimation in Tropical Peatland Area [Satoshi Nakamura, Taichi Takayama, Saito Hideyuki, Takashi Ohki] 2. Research on Relationship Between Average Evapotranspiration with Forest Cover Change: Case Study at the Central Highlands in Vietnam [Toan Le Quang, Hoa Dinh Thi Bao] 3. Biomass Burning Surveillance by MIR Data Processing [In-Kyu Jeong, Tae-Byeong Chae, Heesub Kim, Yong-Seung Kim, And Choen Kim] 4. Estimation of Timber Volume in Tropical Rainforest using Airborne LiDAR [Fatehah Abdul Latip, Muhammad Zulkarnain Abd Rahman, Wan Hazli Wan Kadir, Shahabuddin Amerudin and Ab Latif Ibrahim] 5. Low Hanging Fruit? An Assessment of Low-Cost Drone Technology and Imaging Systems In Support of Sustainable Oil Palm Estate Management [Sakti Anggara, Bjorn Dahlen] 6. A Comparison of Global Urban Map 2008 with Some Existing Urban Maps [Dong Xuan Phong, Ryutaro Tateishi, Nguyen Thanh Hoan, Toshiyuki Kobayashi] 7. Detection of Urban Expansion in Urban Fringe of Jakarta Metropolitan Area Using Landsat TM Image [Janthy Trilusianthy Hidajat, Santun R.P Sitorus, Ernan Rustiadi, Machfud] 8. Study of Land Cover Classification by Using SAR Data in Undrained Peat Swamp Forest [Norichika Asada, Kazuyo Hirose, Osamu Kashimura] 9. Estimates of Standing Volume by Microwave SAR Data in Planted Acacia Forests in Sumatra, Indonesia [Shoko Kobayashi, Yoshiharu Omura, Kazadi Sanga-Ngoie, Ragil Widyorini, Shuichi Kawai, Bambang Supriadi, Yoshio Yamaguchi] 10. An Estimation method of Vegetation Fraction by Using Unit Vectorized Reflectance and the Nonlinear Spectral Mixture Model [Takanori Mtsuo, Seiji Ito, and Yoshinari Oguro]
13.10 - 14.10	Lunch and exhibition
14.10 - 15.10	Poster session 5
15.10 – 17.10: Workshops	
<p>Workshop G1.1 Food Security (GEOGLAM – AsiaRiCE) and Crop Monitoring (APRSAP – SAFE)</p>	<p>Workshop G2.3 HF Radar Application</p> <ol style="list-style-type: none"> 1. Storm forecasting

<p>Session 2 Food Security –Asia-RiCE& SAFE (Cont.) <i>Chair: Dr. Shin-ichi Sobue</i></p> <ol style="list-style-type: none"> SAFE Overview (Mr. Tomoyuki Nukui) Assessment of drought impact on rice production in Indonesia by satellite remote sensing and dissemination with web-GIS in Indonesia [Dr. Rizatus Shofiyati] Water and food security under the climate change in Cambodia [Mr. So Im Monichoth] Japanese satellite for agriculture monitoring [Dr. Kei Oyoshi] Indian satellite for agriculture monitoring [Dr. Jai Singh Parihar] CSIRO Experiences in Radar Remote Sensing of Crops, Grasslands and Forests (Dr. Zheng-Shu Zhou, CSIRO) Rice crop monitoring in Malaysia (TBD) (Prof, Rashid Shariff, UPM) <p><i>Session 3</i> <i>Chair : Dr Lal Samarakoon</i></p> <ol style="list-style-type: none"> Asia-RiCE Team Meeting for phase 1 implementaiton Closing Remarks 	<ol style="list-style-type: none"> Fisheries Management Tsunami Detection
15.10 – 17.10: Special Sessions	
<p>Session E-2A/E-6 WEBCON3, White Elephant and Student Session</p> <p>Part 3: Student Session & WEBCON3 Awarding</p>	<p>Session E-5 TNA InaSAT BPPT Opening Speech by Deputy Head of BPPT [Dr. Ridwan Djamaluddin]</p> <p>Part 1: User Requirement and Technology Aspects <i>Chair: Ir. Suhermanto, M.T</i></p> <ol style="list-style-type: none"> Report on User Requirement and Technology Aspects [Agustan] Indonesian TTC System and Indonesian Experiences in Satellite Development [Robertus Heru Triharjanto] Discussion and Photo Session <p>Part 2: Indonesian National Consortium on Earth Observation Satellite <i>Chair: Dr. Muhamad Sadly</i></p> <ol style="list-style-type: none"> National Consortium for Indonesian Earth Observation Satellite System [Dr. Pariatmono] BAPPENAS Discussion and Photo Session <p>Part 3: International Experiences <i>Chair: Dr. Agustan</i></p> <ol style="list-style-type: none"> Proposal from JAPAN [Japan/Sumitomo] Proposal from UK [UK/Surrey] Summary, Closing Statement
15.10 – 17.10: Technical Sessions	
<p>Session E-1 SC-02-Methods development and image processing</p>	<p>Session E-2B SC-05-Hazards <i>Chairs:</i></p>

Chairs:

Nguyen Thanh Hoan

Jeark A. Principe

1. Super-Resolution Mapping of Gravel Bed Surface Roughness Using Terrestrial Laser Scanning and Airborne Laser Scanning [Guo-Hao Huang, Chi-Kuei Wang]
2. Cloud Removal of Modis 250 M 8-Day Image Composites: Problem and Solution [Nguyen Thanh Hoan, Ryutaro Tateishi, Brian Johnson]
3. Volume Data Images Optimization in Permanent Scatterer Interferometric Synthetic Aperture Radar (PS-InSAR) Technique for Land Subsidence Estimation [Yudo Prasetyo, Ishak H. Ismullah, Hasanudin Z. Abidin, Ketut Wikantika]
4. Alteration Mineral Detection Via ETM+ and Hyperion Data: Bau Goldfield, Sarawak, Malaysia [Amin Beiranvand Pour, Mazlan Hashim]
5. A Comparison Air Temperature and Land Surface Temperature to Detect an Urbanization Effect in Jakarta, Indonesia [Hasti Widyasamratri, Kazuyoshi Souma, Hiroshi Ishidaira, Yutaka Ichikawa, Hiroshi Kobayashi, Ichiko Inagaki, Tadashi Suetsugi]
6. Nonlinear Unmixing with Multiple Reflection for Hyperspectral Remote Sensing Imagery [Shih-Min Syu, Hsuan Ren]
7. Improved Classification of Moderate Resolution Satellite Image Using Band Ratio, Nbai and PC Transform [Jeark A. Principe, Ariel C. Blanco, Takahiro Yamamoto, Kazuo Nadaoka]
8. A Study of Geospatial Data Processing Based on Cloud Computing [Yaser Khalilizangelani, Saman Ghaffarian]
9. Suspended Particulate Matter Concentration Retrieval in Tropics Estuary from Landsat ETM Data [Dr. Razak Zakariya]

Leong Kwong Kwoh

Manzul Hazarika

1. Damage and Loss Assessment Modeling of Agricultural Land from Lahar in Gendol Watershed, Yogyakarta, Indonesia [Iqbal Putut Ash Shidiq, Putu Perdana Kusuma Wiguna, Danang Sri Hadmoko]
2. Detection of Tropical Landslides using Airborne Lidar Data and Multispectral Image: A Case Study in Genting Highland, Pahang [Irhamalla Khamsin, Muhammad Zulkarnain Abd Rahman, Khamarrul Azahari Razak, Shahrul Rizal Abd Rahman]
3. Slope Stability Analysis of Houshanyue Landslide Using STABL and PSO [Zhe-Ping Shen, Walter W. Chen]
4. Slip Surface Estimation at Landslide Zone by Geodetic Method Study Area: Landslide Zone at Ciloto-Puncak, West Java [Vera Sadarviana, Hasanuddin Z. Abidin, Joenil Kahar, Djoko Santoso]
5. Assessment Method of Building Damage in Sichuan Lushan 7.0 Earthquake Using High Resolution Aerial Imagery [Aixia Dou Xiaoqing Wang Wei Zhang Xiaoxiang Yuan Long Wang Xiang Ding]
6. Drought and Fine Fuel Moisture Code Evaluation: An Early Warning System for Forest/Land Fire by Remote Sensing Approach [Yenni Vetrira, Nanik Suryo Haryani, Indah Prasasti, M. Priyatna, M. Rokhis Komarudin]
7. Web Map Application for Flood Management in Thailand [Suwichai Yammesri, Keeratipong Petchadapong, Kannika Khumwong and Ramphing Simking]
8. Flood Risk Mapping Using Geospatial Techniques and Hydraulic Model [Tze Huey Tam, Ab Latif Ibrahim, Muhammad Zulkarnain Abd Rahman, Mazura Zulkifli]
9. Analysis of People's Route and Destination Choice in Evacuation Using GPS Log Data [Ryo Wako, Yoshihide Sekimoto]
10. Public Access Flood Hazard Mapping: The Case of Brgy. Pansol, Calamba City, Philippines [Paquit, Joseph C., Buena, Geo Rhene D., de Guzman, Christmas B., Dida, Jan Joseph V., Magnaye, Gemmalyn, Mapacpac, John Christian V., Roxas, Ruth R., Bantayan, Nathaniel C.]

Session E-3

SC-10-GPS and Global Navigation Satellite Systems

Chairs:

Dr. Tee Ann Teo

Prof. Dr. Johan Setianto

1. Integration of Extended Kalman Filter and

Session E-4

SC-03-Environmental Science

Chairs:

Wataru Takeuchi

Yi-Hsien Lin

1. Bathymetry Estimation of Shallow Water Using Multi-Temporal Satellite Images

<p>Neural network for Foot-mounted Pedestrian Navigation [Guang-Je Tsai, Yuan-Rong Sih, Hone-Jay Chu, Kai-Wei Chiang]</p> <ol style="list-style-type: none"> 2. High Accuracy Positioning using LEX Signal from Quasi-Zenith Satellite [Soichiro Shiraishi, Masaaki Shikada] 3. Person Movement Monitoring With An L1 Only GPS Receiver [Peter Tian-Tuan Shih and Yi-Cheng Huang] 4. Matlab-Based VHF and UHF Amplitude Scintillation Characterization Using the New Low-Latitude Ionospheric Tomography Network (LITN) [Dessy Francisca, Edgar Vallar, Ernest Macalalad, Maria Cecilia Galvez, Lung-Chih Tsai] 5. Sensing of the Ionosphere Dynamics Over the Indonesian Region Using GNSS Observations [Brian Bramanto, Oma Rudin, Dudy D. Wijaya] 6. The Taiwan Ionospheric Model (TWIM) and model prediction using autocorrelation method [L.-C. Tsai, Ernest P. Macalalad, M. H. Tien, and C. H. Liu] 7. Advancing Climate Studies in the Australasian Region using Space- and Ground-based GPS Techniques – an Overview of Recent Progress [Yuriy Kuleshov] 8. Fitting Geoidal Undulation Using Quantum-Behaved Particle Swarm Optimization: A Case Study in Taiwan Area [Ming-Yao Tsai, Fang-Shii Ning] 9. Integrity Improvement in Localization : Guarantee-Added Localization Methodology Using Spatiotemporal Contexts [Hitomi Inaba, Masafumi Nakagawa] 10. Geodetic Aspects of Delimitation and Demarcation of Land Boundary Between Indonesia and Malaysia in Sebatik Island [Sukanto Hadi, Hasanuddin Z. Abidin, and Kosasih Priyatna] 	<p>[Yuan-Tsai Wang, Hsuan Ren]</p> <ol style="list-style-type: none"> 2. Remotely Sensed Vegetation Coverage in Heterogeneous Karst Environments Based on Improved Image Segmentation [Yuemin Yue, Kelin Wang, Ru Li, Quanjun Jiao] 3. Estimation of CH₄ Emission from Siberian Natural Wetland by Land Surface Dynamics Characterization with Remote Sensing [Sudesuriguge, Wataru Takeuchi, Sachiko Hayashida] 4. Improvement of CO₂ Emission Model by Modification of Soil Respiration From tropical Peatlands in Indonesia [Haemi Park, Wataru Takeuchi, Kazuhito Ichii] 5. Reverse Thinking the Negative Effects of Topographic Shelters on Taiwan Red Cypress Distribution by Geospatial Information Technology [Yi-Hsien Lin, Nan-Jang Lo, Wei-I Chang, Kai-Yi Huang] 6. Glacier Changes in Bogda Area in the Tien Shan Mountains using CORONA (~1970S), Landsat (~2000S), and SPOT (2010) Satellite Data [Qiting Huang, Jiancheng Luo, Tianjun Wu] 7. 3d City Model from Geoeye-1 Stereo Images for Environmental Monitoring in Phuket City [Sanwit Iabchoon, Chanida Suwanprasit] 8. Application Geography Information System (GIS) to Determine Flooding Area Caused by Sea Levels Rising in Coastal Area of Viet Nam Case Study in Quang Ngan commune, Central Viet Nam [LE Quy, Nguyen Ngu, Nguyen Khoa, Tran Anh] 9. Estimation of Terrestrial Carbon Fluxes Over East Asia Through Integration of Satellite Remote Sensing and Asiaflux Data [Miae Kim, Jungho Im] 10. Monitoring of Economic Crop Using SAR Data [Thanwarat Anan]
<p>Session E -7 SC-04-Natural Resources Chairs: <i>Jojene R. Santillan</i> <i>Junfeng Xu</i></p> <ol style="list-style-type: none"> 1. Backscattering Characteristic of Land Cover Base on Alos Palsar Data [Elis Molidena, Abd. Rahman As-syakur, Tasuku Tanaka, Takahiro Osawa, I Putu Gede Ardhana] 2. Biodiversity Mapping by Remote Sensing Based Method and Ecological Stratification [Hieu Cong Nguyen, Doyeon Kim, Joon Heo] 3. Effects of Sample Size on the Performance of Species Distribution Models coupled with 3s Technology – A Case Study of <i>Castanopsis Carlessi</i> [Yao Yu Chiang, Nan-Chang Lo, Wei-I Chang, Kai-Yi Huang] 4. Effect of Water Background to Aquatic 	<p>Session E -7 SC-04-Natural Resources Chairs: <i>Jojene R. Santillan</i> <i>Junfeng Xu</i></p> <ol style="list-style-type: none"> 6. Combined use of Alos-Avnir 2 and Envisat ASAR Images in Mapping the Starch-Rich Sago Palms in Visayas and Mindanao, Philippines [Jojene R. Santillan, Jezleer T. Montajes] 7. Habitat Suitability Analysis of the Starch-Rich Sago Palm Using Satellite-Derived Data and a Species Distribution Model [Meriam M. Santillan, Jojene R. Santillan] 8. Using CA-Markov Simulated Land Cover for Parametric Sedimentation Estimation in a Large Reservoir [Mark Edwin A. Tupas1, Rhodora M. Gonzalez2, Peter P. M. Castro]

Vegetation Canopy Reflectance in Inundated Zone of Coastal Wetland [Junfeng Xu, Jie Wang, Dengrong Zhang]	9. The Identification of Cbm Sweet Spot Area in Berau Basin Based on Remote Sensing Imagery [A.H. Hamdani, A. Sudrajat, E Sukiyah, A Sadzali]
5. Mapping Clay Fraction Using Hyperion Imagery in Relation to Different Kind of Parents Material in D.I.Yogyakarta [Alfiatun Nur Khasanah]	10. Development of new Water Index with Modis and Amsr-E for Global Rice Paddy Field Mapping [Hiromi Jonai, Wataru Takeuchi, Kei Oyoshi]
17.10 - 17.40	Coffee Break and Poster session 6
17.10 - 18.00	General conference -1 AARS
19.00 – 21.00: Special Sessions	
Session C-5 WEBCON3, White Elephant and Student Session	
Student Night (at J' Boutique Hotel)	
Wednesday, 23 October 2013	
08.00 - 09.00	Plenary Speeches <i>Earth Observation Satellite</i> 1. Dr. Aryo Hanggono, Balitbang KP (Indonesia) 2. Prof. Li Deren (China) 3. Dr. Somchet Thinaphong, Chairman of GISTDA (Thailand)
09.00 – 18.00	Excursion and Galungan Day
09.00 – 18.00: Workshops	
Workshop H1 Remote Sensing Application for Tuna Fisheries and Aquaculture in Connectivity with Food Security and Climate Change Opening Ceremony Welcome Address and Opening Remarks by the Host and VIPs 1. Speech by Deputy Chairman of Agency for the Assessment and Application of Technology – Dr. Ridwan Djamaluddin 2. Speech and Opening Remark by Secretary of Marine and Fisheries Research Agency, Republic of Indonesia – Dr. Aryo Hanggono 3. Group Photo Session 1 – Remote Sensing Application for Sustainable Tuna Fisheries <i>Chairman: Prof. Ngurah N. Wiadnyana</i> 1. The case for use of remote sensing technology in commercial tuna fisheries – Dr. Alicia Mosteiro, FAO 2. Spaced Based Surveillance Tools for monitoring fisheries - Dr. Chris Elvidge, NOAA NGDC USA 3. The European experience on remote sensing Application for tuna fisheries - Dr. Philippe Gaspar, CLS France 4. Remote Sensing an integrated approach for commercial fisheries – Dr. Agus Setiawan, IMRO	Workshop H2 Use of Aerial Imageries and Remote Sensing Data in Collaborative Mapping for Developing Detailed Spatial Plans in Disaster Prone Area <i>Chair: Dr. Iwan Gunawan</i> 1. Registration 2. Introduction to the sessions Session 1 - Remote sensing data in practices 1. Use of Remote Sensing data in Collaborative Mapping in Merapi affected Area – practice and lessons learnt [Dr. Trias Aditya] 2. Application of OpenStreetMap (OSM) as Tools for Community Participatory Mapping in pre and post disaster [Kate Chapman] 3. InaSAFE for Rapid Disaster Impact Analysis & Planned Development [Kristy Van Putten] 4. Discussions Session 2.- National Policy 1. Integrating local data into national database [Mr. Dodi Sukmayadi] 2. Remote Sensing in national Disaster database [Dr. Agus Wibowo] 3. Discussion

- Using Remote Sensing Data For Yellowfin Tuna Fishing Ground Forecasting in Vietnamse Offshore Areas - Dr. Thanh Duy Nguyen, Vietnam

Session 2 – Remote Sensing Application for Sustainable Aquaculture

Chairman: Dr. Muhammad Sadly

- Remote sensing for the sustainable development and management of aquaculture - Dr. Jose Aguilar-Manjarrez, FAO
- Remote Sensing and GIS approach toward sustainable management of marine aquaculture – Dr. Nyoman Radiarta, MMAF Indonesia
- Fish Species Diversity According to Spatial Habitat Degradation of Inle Lake – Dr. Kamaryuf Township Yangon, Myanmar
- Site Selection for Suitable Seaweed Cultivation area in Indonesia by using Remote Sensing Technology – Dr. Nani Hendiarti, Indonesia

- Break-out Group Session on Expectations, Objectives, and Outcome from the Remote Sensing Application for Sustainable Tuna Fisheries and Aquaculture. Three Topics will be discussed in the groups; those are related with the issues of
- Remote Sensing and IUU fishing, marine aquaculture development, and climate change impact.
- Presentations of Appreciations to Speakers
- Wrap-up and Closing Remarks

Thursday, 24 October 2013

08.00 – 09.00: Workshops

Workshop J1.1. Geospatial Technology Development

- Registration
- Opening Ceremony
- Keynote : Geospatial Information in Indonesia (past, present and future) [Dr Asep Karsidi]

08.00 – 09.00: Technical Sessions

Session F-2B SC-06-Social economic sciences and policy

Chairs:

Prof. Haruhisa Shimoda

Prof. Mitsuharu Tokunaga

- Real-time Dhaka: Estimation of Real-time People Flow of Dhaka Using CDRs Data with Data Assimilation[Yoko Hasegawa, Yoshihide Sekimoto, Hiroshi Kanasugi, Ayumi Arai, Teerayut Horanont, Apichon Witayangkurn]
- Regulation of Satellite Remote Sensing Applications in Pakistan [Shah Murad]
- Synergy Approach For Implementing The Policy

Session F-3 SC-02- Methods development and image processing

Chairs:

Dr. Peter Shih

Dr. Manos Baltasvias

- Accuracy Assessment on Internal Parameter in Artificial Neural Network Classification Technique [Wan Hazli Wan Kadir, Siti Zubaidah Abdul Latiff]
- High Resolution TerraSAR-X Data for Urban Land Cover Mapping: Preliminary Results [Yifang Ban, Alexander Jacob]

<p>On High Resolution Imagery To Accelerate Basic And Thematic Geospatial Information [Sukendra Martha, Aris Poniman, Hartono]</p> <p>4. Analysis of People's Evacuation or Life Patterns After Fukushima Daiichi Nuclear Accident [Yoshinari Sayama, Xuan Song, Quanshi Zhang, Ryosuke Shibasaki]</p> <p>5. Slum Urban Three-Dimensional Reconstruction from Envisat Satellite Data in Egypt [Maged Marghany]</p>	<p>3. Analysis of Spatial Interpolation Techniques for Dem Generation Using IRS-1C Data [Andie Setiyoko]</p> <p>4. A New Method of Continuum Removal for Mixing Spectral Analysis [Zhao Hengqian, Zhang Lifu]</p>
<p>Session F-4 SC-03- Environmental Science Chairs: Dr. Pradeep Goswani Prof. Haruo Sawada</p> <p>1. Remote Sensing and Digital Terrain Model (DTM) Based Investigations Reveal Recent Crustal Adjustments in Southern Kumaun Himalaya, India [P K Goswami, Tanuja Deopa]</p> <p>2. Remote Sensing, SAR, GIS and AIS in Oil Spill and Ship Monitoring Applications[Andrei Ivanov, Aleksey Kucheiko]</p> <p>3. Reverse Thinking the Negative Effects of Topographic Shelters on Taiwan Red Cypress Distribution by Geospatial Information Technology[Yi-Hsien Lin, Nan-Jang Lo, Wei-I Chang, Kai-Yi Huang]</p> <p>4. Potential of SAR and Optical Image Fusion for the Improvement of Forest Biomass Estimations[Chai Hock Choi, Md. Latifur Rahman Sarker, Janet E. Nichol]</p> <p>5. Responses of Coastal Flood Risk to Sea Level Rise: Remote Sensing and Hydraulic Approach[Xiaoping Du, Huadong Guo, Xiangtao Fan, Junjie Zhu, Zhenzhen Yan, Qin Zhan]</p>	<p>Session F-5 SC-02- Methods development and image processing Chairs: Prof. L.C. Chen Prof. Dr. Hartono, Dess</p> <p>1. Comparison of Multisource Image Fusion Methods [A.Munkh-Erdene, M.Ganzorig]</p> <p>2. Probing Tropospheric Aerosol and Trace Gas Profiles Using a Ground Based UV and Vis Hyperspectral Measurements and Inversion Technique [Hanlim Lee]</p> <p>3. Increasing Accuracy of Image Classification Using Artificial Neural Network [Wan-Kadir, W. H, Latiff, S. Z. A, Rasib, A. W, Rahman, M.Z.A]</p> <p>4. A Fast and Simple IHS-Like Method For Pansharpening Landsat 8 Imagery With High Spectral Quality: Case Study in Thailand and Japan [Brian Johnson]</p> <p>5. Forest degradation detection using remote sensing: a case of Kapuas Hulu, West Kalimantan, Indonesia [Serge Claudio Rafanoharana, Arief Wijaya, Gilang Aria Seta, Manuel Boissière]</p>
<p>Session F-6 SC-11- Mapping Chairs: Dr. Takuhiko Murakami Dr. Wataru Takeuchi</p> <p>1. Mapping of Seagrass and Other Benthic Habitats in Bolinao, Pangasinan Using Worldview-2 Satellite Image [Ayin M. Tamondong, Ariel C. Blanco, Miguel D. Fortes]</p> <p>2. Mapping of Coastal Ecosystems Using remote Sensing and Gis [R.Uma maheswari]</p> <p>3. Application of DEM Reconstruction from Multi-view Images To a Canopy Area of Aerial Photogrammetry [Chieh-His, Weng Jin-Tsong, Hwang]</p> <p>4. Formation of 360-Degree Panorama Using Images Captured with The Portable Panoramic Image Mapping System (PPIMS) [Kuan-Ying Lin, Yi-Hsing Tseng]</p> <p>5. A Simulation of Creation Digital Elevation Model for Inland Flood by UAV [Takuya Kosaka, Mitsuharu Tokunaga]</p>	<p>Session F-7 SC-04- Natural Resources Chairs: Prof. Taejung Kim Prof. Ryutaro Tateishi</p> <p>1. Comparison of Estimated Transplanting Dates Derived from MODIS Data and COSMO-SkyMed Data [Yuta Yamashita, Masayasu Maki, Koki Homma, Kazuo Oki, Hiroaki Shirakawa, YunQing Li]</p> <p>2. Detection of Remote Sensing Image-Based Local Wisdom in Indonesia: A Case Study of Land Use of Lingko-Lodok System in Manggarai Area, Flores Island, East Nusa Tenggara [Aris Poniman, Habib Subagio]</p> <p>3. Modeling Soil Organic Carbon (SOC) Using Remotely Sensed Variables in Sub-Tropical Forests of Chitwan District, Nepal [S.M.M. Rasel T. Groen Y. A. Hussin]</p> <p>4. Extraction of Forest Cover and Forest Cover Change Detection Analysis Using ALOS PALSAR Mosaic Data [Engr. Mari Trix L.</p>

	<p>Estomata]</p> <p>5. Seepage Detection on Hydrocarbon Using Hyperspectral Remote Sensing Analysis [Muhammad Ikhwan Jamaludin, Abd. Nassir Matori]</p>
<p>Session F-8 SC-08-Educations <i>Chairs:</i> <i>Dr. Kiichiro Kumagai</i> <i>Prof. Mitsuharu Tokunaga</i></p> <ol style="list-style-type: none"> 1. Development and Effects of Science-Culture Tourism at a Tribal Village: The Atayal Satellite Project [Chih-Li Chang, Li-Yu Fu] 2. Empowering Local Governments Using Free Gis and Remote Sensing Technologies: Best Practices and Challenges in the Philippines [Juanito G. Berja Jr.] 3. Research on the applicability of E-Foto Open Source Software to Server Teaching and Researching in Universities of Viet Nam [Duy Nguyen Ba, Hau Ninh Hoa] 4. Interferometric Sar Processing AS a Subject For Technology Education [Hiroshi Nii, Tomohiko Takeichi, Yosuke Ito] 5. Lessons-Learnt from the use of Opensource GIS for Training of Disaster Contingency Planning in Indonesia [Purnama B Santosa, Trias Aditya, Heri Sutanta, Dany P Laksono] 	<p>Session F-9 SC-12-Other related topics <i>Chairs:</i> <i>John Van Genderen</i> <i>Marco van der Kooij</i></p> <ol style="list-style-type: none"> 1. Reflections on 50 Years of Remote Sensing: Looking Back, Looking Forward. [Van Genderen, John] 2. RADARSAT-2 Spaceborne SAR: Practical Applications for Large Area Monitoring [Marco van der Kooij] 3. Registrati on Based on Lie Group Representation for Low Overlap Datasets [Yaxin Peng, Chaomin Shen] 4. Supporting Visual Exploration of Animated Time Series with Modifiable Temporal Unit [Rani Charisma Dewi] 5. Core Topics and Vocabulary in Remote Sensing Researches [Masafumi Ono, Ryosuke Shibasaki]
09.00 - 09.30	Break and exhibition (Poster session-7)
09.30 - 12.30: Workshops	
<p>Workshop J1.2. Geospatial Technology Development</p> <p>Session 1- Data acquisition <i>Chair: Dr. Ade Komara</i></p> <ol style="list-style-type: none"> 1. Microwave RS for Geospatial Data Development [Prof Kohei Cho] 2. New technology Development for Photogrammetry [Prof. Tea-Ann Teo] 3. UAV Technology for Geospatial data Acquisition [Prof Armin Gruen] 4. Spatial Data Quality and Data Fusion [Prof. Emmanuel Baltsavias]] 	<p>Workshop J2.1 Joint Workshop with ISPRS WG VII/1 and ACRS2013 <i>Chair: Mitsunori Yoshimura</i></p> <p>Welcome Speech and Introduction:</p> <ol style="list-style-type: none"> 1. Ground-based Sky Conditions Observation for Light Environmental Modeling [Megumi Yamashita, Mitsunori Yoshimura] 2. Deriving regional crown closure using spectral mixture analysis based on up-scaling endmember extraction approach [Chunxiang CAO, Haijing TIAN, Zaichun ZHU, Xiliang NI, Yunfei XU, Min XU, Xiaowen LI, Haibing XLANG] 3. Urban and suburb change detection using multitemporal polarimetric SAR images [Bhogendra Mishra, Junichi Susaki] 4. The Use of Shuttle Radar Topographic Mission (SRTM) for Extracting Hydrology Characteristics of Vu Gia – Thu Bon River Basin, Vietnam [Minh Truong Phuoc, An Tran Thi, Bien Le Van] 5. Extracting forest area from multi-resolution remote sensing images [Haibing XIANG, Chunxiang CAO, Sheng ZHENG, Cheng LIU, Haijing TIAN, Rong TIAN, Di LIU, Mengya WANG, Xuejun WANG, Yongfeng DANG, Shilei

	<p>LU]</p> <ol style="list-style-type: none"> Comparison of estimated transplanting dates derived from MODIS data and COSMO-SkyMed data [Yuta Yamashita, [Masayasu Maki, Koki Homma, Kazuo Oki, Hiroaki Shirakawa, YunQing LI,] Enhancing Quality of Global DEMs for Geomorphological Analysis – Case Study in Danang City, Vietnam [An Tran Thi, Venkatesh Raghavan, Shinji Masumoto, Go Yonezawa] Vegetation Classification Using Remote Sensing Data in Mongolian Grasslands for Livestock Grazing Management, Ayako Sekiyama, Wataru Takeuchi] General Discussion
--	--

09.30 - 12.30: Special Sessions

<p>Session G-6 Micro- Satellite <i>Chair : Dr. Muhammad Evri</i></p> <ol style="list-style-type: none"> Purpose of Asian Micro-satellite Consortium (Yukihiro Takahashi/Hokkaido University) Applications of spectral sensors and bolometer array camera (Kazuyo Hirose/JSS, Junichi Kurihara and Tetsuya Fukuhara/HU) Micro-satellite technology (Yuji Sakamoto, Toshinori Kuwahara, Kazuya Yoshida/Tohoku University) Smart remote-sensing micro-satellite and UAV (Joko Purwono & team/BPPT) 	<p>Session G-6 Micro- Satellite <i>Chair : Dr. Muhammad Evri</i></p> <ol style="list-style-type: none"> Micro-satellite development and data utilization in Indonesia (LAPAN) Micro-satellite development and data utilization in Vietnam () Micro-satellite development and data utilization in Thailand () Future possibility of micro-satellite and UAV project in Philippines Future possibility of micro-satellite and UAV project in Myanmar
---	---

09.30 - 12.30: Technical Sessions

<p>Session G-2 SC-01-Sensor and Platform <i>Chairs:</i> <i>Martin Krynitz</i> <i>Kyohei Suto</i></p> <ol style="list-style-type: none"> 3D Building Model Retrieval System Based on LIDAR Point Cloud Filling and Encoding [Jyun-Yuan Chen, Po-Chi Hsu and Chao-Hung Lin] Inclined Satellite Orbits and Resulting Ground Station Network Solutions for Near Equatorial Areas [Martin Krynitz, Kenneth Olafsson] Data Fusion of Airborne Hyperspectral and Full Waveform LiDAR Data for Land Cover Classification [Kuei-Chia Chen, Chun-Yu Liu, Chi-Kuei Wang, Hone-Jay Chu, Guo-Hao Huang] Utilization Of Unmanned Aerial Vehicle (Uav) For Coastal Erosion Monitoring: A Review [Ms. Norhadija Binti Darwin] FPGA Variable Based Chirp Pulse Generator for Synthetic Aperture Radar Onboard Unmanned Aerial Vehicle System [Kyohei Suto, Josaphat Tetuko Sri Smantyo, Cheaw Wen Guey, Koo Voon Chet] Land Cover Classification Using Full-waveform 	<p>Session G-3 SC-02-Methods development and image processing <i>Chairs:</i> <i>Fahmi Amhar</i> <i>Andy Nelson</i></p> <ol style="list-style-type: none"> Variations in composition and abundance of white mica in the hydrothermal alteration system at Jiama, Tibet, as revealed by infrared reflectance spectroscopy [Guo Na, Tong Qingxi, Zhang Lifu, Wang Chongwu] Sea Surface Height Analysis Using SGDR Retracking Jason 2 (Case Study : Coastal Area of Southern Java) [Khomsin, Dewangga Eka] Fusion of Hyperspectral and Lidar Data for Tree Species Classification [Tomohiro Matsuki, Naoto Yokoya, Akira Iwasaki] Research on Improved Destriping Algorithm with spectral Moment Matching for Hyperspectral Images [Zeng Qingwei, Ma Weisheng, Liu Chang, Wang Aihua, Sha Moquan] a Novel Approach to Improve the ENSO and IOD Signals Detection in the Indonesian Seas [I Dewa Nyoman Nurweda Putra, Tasuku Tanaka]
---	---

<p>Lidar Data and Remotely Sensed Image [Yu-Lung Lin, Ming-Da Tsai, Yu-Ching Lin, Ben-Yu Liao]</p> <ol style="list-style-type: none"> 7. UAV-based generation of a very high resolution DTM for hydrological studies along the Chiliwung River, Indonesia [Deni Suwardhi, Armin Gruen, Rongjun Qin, Budhy Soeksmantono, Agung Budi Harto] 8. Hyperspectral Space-borne Sensor Development and its Data Application [O. Kashimura, K. Hirose, T. Tachikawa, J. Tani] 9. Global Change Observation Mission (GCOM) [Haruhisa Shimoda] 10. Delay and Packet Delivery Ratio Analysis of Mac Protocols Of Underwater Sensor Network [Pinto Das] 11. Hosted Payloads, Hosted Missions, Towards A Successful Share of Resources [Thierry Benchetrit] 12. Low-cost Virtual Reconstruction and Visualization of Historical Objects with Focus on Blind People Using 3D Printer [Karel Pavelka, Zdenka Bila] 13. Application of an Airborne Remote Sensing Platform for High Throughput Phenotyping of Wheat Crops [Maria Tattaris, Matthew Reynolds, Julian Pietragalla, Gemma Molero, Marc Ellis, C.Mariano Cossani] 14. Investigation & Verification of Airborne Lidar Error Based on Land Cover and Slope Variability [A.Putra, K.Wikantika, A. Budi Harto] 15. Analysis of Lidar Data for Rice Field Areas [Syara Ila Firda, Muh. Nur Indro, Mahmud Raimadoya, Eddy Arus Sentani] 	<ol style="list-style-type: none"> 6. Recent Development in True Orthoimaging [Prof. Dr.-Ing. Fahmi Amhar] 7. a Novel Noise Removal Algorithm for Vertical Artifacts in Digital Elevation Models [Lucas C. Villa Real, Jose Edgardo L. Aban, Saiful Azmi bin Hj Husain] 8. Identification and Mapping of Hydrological Peat Unit using Radar and Ancillary Data, A Case Study in Mimika and Mappi Area, Papua [Baba Barus] 9. Topographic Correction of Hyperspectral Images Using LiDAR Data [Wei Chang, Pai-Hui Hsu] 10. Remote Sensing-Based Information and Insurance for Crops in Emerging Economies (Riice): the Philippine's Experience [Dr Andy Nelson, Dr Tri Setiyono, Dr Jimmy Quilang, Mary Rose Mabalay, Aileen Maunahan, Prosperidad Abonete, Arnel Rala, Jeny Raviz, Roman Skorzus, Francesco Holecz, Massimo Barbieri, Francesco Collivignarelli] 11. Assessment of Worldview-2 and Lidar Data Combination for Mangrove Composition Mapping [Muhammad Kamal, Stuart Phinn, Kasper Johansen] 12. Operational Multi-Sensor Monitoring of Water Quality in Transnational River, Lake and Coastal Water Systems [Thomas Heege, Magnus Wettle, Abhay S. Mittal] 13. Comparison between Manual and Semi-Automated Methods to Produce Map of Potential Fishing Ground Prediction [Dinarika Jatisworo and Ari Murdimanto]
<p>Session G-4 SC-03- Environmental Science <i>Chairs:</i> <i>Prof. Haruo Sawada</i> <i>Elizabeth N. Wakoli</i></p> <ol style="list-style-type: none"> 1. Retrospective Analysis of Land Cover and use Dynamics in Gilgel Abay Watershed by Using Gis and Remote Sensing Techniques, Northwestren Ethiopia [Amare Sewnet Minale] 2. Monitoring Gulf environment with AMSR-E instrument on board Aqua satellite [Hala Khalid Al Jassar and K. S. Rao] 3. Spatial and Temporal Patterns of Elephant Mortality in Narok County, Kenya [Elizabeth N. Wakoli, Hellen Ipara, Noah Sitati, Paul Odwori] 4. The Impact of Locally-tuned Chlorophyll-a Algorithm in Malacca Straits [Nor Zafirah, Mohd Nadzri Md Reba, Eko Siswanto] 5. Key Techniques of the Remote Sensing for Inland Water Quality and the Application in Survey of Water Environment in Guangdong province, China [Deng Ruru, Qin Yan, Chen 	<p>Session G-5 SC-09- Geographical information system & remote sensing input Chairs: <i>Prof. Kiichiro Kumagai</i> <i>George Vafiadis</i></p> <ol style="list-style-type: none"> 1. Sugarcane Transportation Management in Northeast Thailand Using Multi-Objectives Decision Analysis [Sunya Sarapirome, Warunee Aunphoklang, Patiwat Littidej] 2. Development for the Damage Prediction Data of Earthquake Disaster [Yoshiki Ogawa, Yuki Akiyama, Ryosuke Shibasaki] 3. HmapS: HyperSpectral Remote Sensing Image Cloud Storage for Large Scale Semantic Search and Distributed Computation [George Vafiadis, Vrettos Moulos, Dimitris Sykas] 4. GIS Application to Impact of Precipitation on Oil Palm Production at Chumphon Province, Thailand [Budi Utomo, Bright Owasu Emmanuel, Wanchat Sawaensak, Savitri Garivait] 5. Forest Change Detection Using Remote

<p>Qidong, Liang Yeheng, Liu Xulong]</p> <ol style="list-style-type: none"> 6. Spectral discrimination of corals in Xisha islands, China [Chen Qidong, Deng Ruru, Xiong Longhai, Liang Yeheng] 7. Retrieval Of Shallow Water Depth Around Islands And Reefs In The South China Sea Using Satellite Hyperspectral Data [Zhen Liu] 8. Comparison of Seismic Moment Rates Obtained by Geophysical and Geological Methods in Structural Zones of Iran [Soran Parang] 9. Shoalhaven Watershed: a Retrospective of Breached Mouth Periods Through Landsat Images, Aerial Photogrammetry and LiDAR Data [Rafael C. Carvalho, Colin D. Woodroffe] 10. Quantitative Evaluation of Coalbed Methane Gas Content Based on Ultra-Long Electromagnetic Wave Remote Sensing Technology [Yanbing Bai, Qiming, Qin, Li Chen, Nan Wang] 11. Apply GSMaP Global Rainfall Data to Improve I-Trap Approach Over Taiwan [Hui-Wen Lai, Gin-Rong Liu, Yi-Ling Chang, Tsung-Hua Kuo, Jiann-Chyi Hwang] 12. Long-Term Prediction of the Biological and Primary Production in the Sulu Sea from Satellite Observation [Nur 'Atiqah 'Aainaa Bt. Abd Latiff, Mohd Nadzri bin Md Reba, Eko Siswanto] 13. Retrieval of Aerosol Optical Properties over Land Based on NOAA/AVHRR Data and Its Application for Eastern China Haze Event in January 2013 [Ying Wang, Xingfa Gu, Tianhai Cheng, Hao Chen, Hui Xu, Yu Wu] 14. Dynamical Monitoring of Spartina alterniflora Loisel Invasion Using Remote Sensing Data in Beihai, Guangxi [Wan Huawei, Yang Yipeng, Wang Changzuo] 15. Entropy Algorithm for Automatic Detection of Ice from Modis Satellite Data [Maged Marghany] 	<p>Sensing and Gis in Savannakhet Province Lao Pdr [Virany SENGTIANTHR, Nguyen Ngoc Thach, Pham Xuan Canh]</p> <ol style="list-style-type: none"> 6. GIS Based Gas Utility Data Model for Turkey [Esin Bitik, Dursun Zafer Şeker] 7. A Watershed Characterization Method for Hydrological Simulations [Czar Jakiri Soriano Sarmiento] 8. Predicting Spatial Pattern of Rhododendron Formosanum by Maximum Entropy and Support Vector Machine [Wei-Kai Lai, Nan-Jang Lo, Wei-I Chang, and Kai-Yi Huang] 9. Impact of Dredging Marine Environment , South East Cost of India : An Integrated approach using RS & GIS [N. Jayaraju, G. Srinivasulu and T. Laxmi Prasad] 10. An Interface Modeling Method Applied In Cloud Platform Of Remote Sensing Products Based On Small Satellite Constellation [Wei Ji, Jianjun He, Yu Gao, Yutang Li, Zhiyong Wang] 11. Application of Mobile Gis on Investigation of Community Ecological Resources [Fang-Yu Kuo, Jihn-Fa Jan, Li-Sheng Chen, Wan-Sin Mao] 12. Analysis and Evaluation of Human Lifestyle Pattern Using Mobile phone GPS in Japan [Takahiro Nishimura, Yuki Akiyama, Teerayut Horanont, Ryosuke Shibasaki, Yoshihide Sekimoto] 13. Integrating SMS and Application Programming Interface (API) for Web-based GIS Mapping of Real Property Units of Butuan City, Philippines [Michelle V. Japitana, Jenelyn B. Refamonte, Cherry Mae P. Tulfo, Jezan M. Villalon] 14. Testing the Performance of Spatial Interpolation Techniques for Mapping Tropical Forest Attributes in Berau District, East Kalimantan, Indonesia [Ali Suhardiman, Satoshi Tsuyuki]
<p>Session G-7 SC-04-Natural Resources <i>Chairs:</i> <i>Prof. Ryutaro Tateishi</i> <i>Mohamad Rahimi Rosli</i></p> <ol style="list-style-type: none"> 1. Estimating Chlorophyll Concentration of Rice Using Airborne Hyperspectral Data Based on Spectral in Situ [Abdi Sukmono, Arief Darmawan, Bangun Muljo Sukojo, Hepi Hapsari Handayani] 2. Integration of Fisher Knowledge and Remote Sensing in Predicting Reef Fish Spawning Aggregations [Mohamad Rahimi Rosli, Ab. Latif Ibrahim, Tarmiji Masron] 3. Using Remote Sensing to Analyze the Relation of Fractional Vegetation Cover to Thermal Temperature and Electricity Consumption in Taipei City [Chang, Hsiao-Tung] 4. Application of Fuzzy Operators to Groundwater 	<p>Session G-8 SC-02-Methods development and image processing <i>Chairs:</i> <i>Muhammad Kamal</i> <i>Hemant Kumar Aggarwal</i></p> <ol style="list-style-type: none"> 1. Extraction of Multi-Scale Mangrove Features from Worldview-2 Image Data: An Object-Based Image Analysis Approach [Muhammad Kamal, Stuart Phinn, Kasper Johansen] 2. A Hybrid Image Segmentation Algorithm for the High Spatial Resolution Remote Sensing Image [Ke Wang , Xingfa Gu, Tao Yu, Qingyan Meng, Hui Xu, Shuhan Liu] 3. Change Detection Using Unsupervised Learning Algorithms for Delhi, India [Hemant Kumar Aggarwal, Sonajharia Minz] 4. Objected-Based Classification for Lidar Point Clouds [Keng-Fan Lin, Chi-Pei Wang, Pai-Hui

<p>Potential Mapping Using Remote Sensing Data and GIS [Biswajeet Pradhan, Haleh Nampak]</p> <ol style="list-style-type: none"> 5. Application of Remote Sensing and GIS in Monitoring and Mapping of Sand Encroachment in White Nile State, Sudan [Mohamed Eltom Elhaja, Ibrahim Saeed Ibrahim, Hassan Elnour Adam, Elmar Csaplovics] 6. Stem Volume Estimation and Mapping using ALOS PALSAR L-Band Backscattering for the Coniferous Forests at Japan [Kotaro IIZUKA, Ryutaro TATEISHI] 7. The Estimation of Biomass of Acacia senegal Tree Using Allometric Equations and Remote Sensing, North Kordofan State, Sudan [Hatim Mohamed Ahmed Elamin, Hassan Elnour Adam, Elmar Csaplovics] 8. Elephant Intrusion in Sri Lanka: the Impact of Land Use [R.M.C.W.M Rathnayake, Masahiko Nagai] 9. Validation of MODIS and GEOV1 Time Series LAI Products Over Paddy Rice Fields in NE China [Hongliang Fang, Shanshan Wei, Wenjuan Li, Chongya Jiang] 10. An Approach for Oil Palm Tree Detection Using Multispectral [Panu Srestasathien] 11. Soil Moisture Inversion and Validation Based on New Remote Sensing Platform [Chen Du, Qiming Qin] 12. Assessment of Altimetry Satellite Data for Windwaves Model Verification [Subekti Mujiasih] 13. Application of Remote Sensing in Assessment of Forest Gaps and Land Use in Umabdalla Natural Reserved Forest South Kordofan, Sudan [Osman E. A. Abdelkareem, Hassan E. A., Elnour A. Elsiddig, Elamr Csaplovics] 14. Performance Evaluation of Irrigation Project Using RS & GIS - A Case Study of Upper Ganga Canal Command [Mr. Sherzod Zaitov] 15. The Estimation Of Soil Moisture In Agricultural Fields In Nakhon Ratchasima Province, Thailand Using Radarsat-2 And Thaichote Imageries (Woranut Chansury) 	<p>Hsu]</p> <ol style="list-style-type: none"> 5. Monitoring Glacier Flow Velocity by SAR Interferometry and Texture Tracking Method Using ALOS PALSAR Data Around Mt. Everest Region [Nikhil R. Poudyal, Ryutaro Tateishi, Bambang Setiadi] 6. Development of a Methodology for CRP and 3D-Visualization using RS Images from Mobile Phone Camera [Czar Jakiri Soriano Sarmiento, Ransie Apura, Nizar Palayad, Kristina Ticman] 7. Classification of High Resolution Satellite Imagery: An Expert System Based Approach [Pankaj Pratap Singh, R. D. Garg] 8. Surface Modeling Based on Point Cloud Rendering Using Terrestrial Lidar Data [Konosuke Kataoka, Masafumi Nakagawa] 9. Estimation of surface soil properties, peatland mapping discriminating using ALOS/PALSAR in Jabiren, Central Kalimantan (Kusumo Nugroho) 10. Visual and Digital Interpretation of ALOS Image for Benthic Habitat Mapping: Case Study of Wakatobi Islands [Doddy M. Yuwono]
12.30 - 13.30	General conference -2 AARS
12.30 - 13.30	Lunch and exhibition
13.30 - 15.30: Workshops	
<p>Workshop J1.3. Geospatial Technology Development</p> <p>Session 2:- Data Processing Chair: Dr. Projo Danoedoro</p> <ol style="list-style-type: none"> 1. Sensor Interoperability: Combining Sar And Optical Data For Forest Resource Assessment (Prof. Tony Milne) 2. DEM Data Quality and Fusion (Prof. Emmanuel Baltsavias) 3. Remote Sensing for Natural Hazard Mitigation 	

<p>(Prof Peter Tian-Yuan Shih)</p> <ol style="list-style-type: none"> 4. Long years observation by Satellite-Remote Sensing (Prof Tasuku Tanaka) 5. Recommence of the Geospatial Technology-Remote sensing approach <p>Summary and closing (Prof Fahmi Amhar)</p>	
<p>13.30 - 15.30: Technical Sessions</p>	
<p>Session H-2B SC-01-Sensor and Platform <i>Chairs:</i> <i>Prof. Armin Gruin</i> <i>Larry Leigh</i></p> <ol style="list-style-type: none"> 1. Absolute Radiometric Vicarious Calibration of on Orbit Imaging Satellites [Larry Leigh, David Aaron] 2. Minimizing Latency by Using Existing Global Ground Networks [Kenneth Olafsson, Martin Krynitz] 3. Direct Reception from UK-DMC2 Satellite, as a Tool for Sustainable, Frequent and Large Area Monitoring[Kasia Wisniewska] 4. GO3S (Gregory Pedersen) 5. Direct Georeferencing and DSM Generation [Jiann-Yeou Rau, Chih-Yang Chen, Jyun-Ping Jhan, Kircheis Liu & William Lee] 6. Geometry Strength of ADS40 Multi-Ray Intersection and its Object Point Positioning Quality [Ruey-An Chen, Jaan-Rong Tsay, Yu-Han Chang] 7. Next Generation of DMC Small Satellite Sensors for Consetellations and Services [Martin Sweeting, David Hodgson, Pingping Yi] 8. Extraction of Chimneys From Lidar Data Using Wavelet Transform [Behnam Tahmasebi Boldaji, Mehran Sattari, Ehsanodin Taghipoor, Mohsen Salehi] 9. The Effect of Topographic Factor in Atmospheric Correction for Hyperspectral Data [Tzu-Min Hong, Kun-Jen Wu, Chi-Kuei Wang] 10. Correlations between Forest Biomass and Full Polarimetric Parameters Derived from Pi-SAR-L2 Data for a Site in Riau Province, Indonesia [Manabu Watanabe, Takeshi Motohka, Tomohiro Shiraishi, Rajesh Bahadur Thapa, Noriyuki Kawano, and Masanobu Shimada] 	<p>Session H-3 SC-02-Methods development and image processing <i>Chairs:</i> <i>Magnus Wettle</i> <i>Peter Navratil</i></p> <ol style="list-style-type: none"> 1. 3D Modeling of Kanazawa City Center from Airborne LiDAR Data [Y. Kawata , K. Koizumi , M. Hashimoto , H. Sakaya] 2. Use of Landsat ETM+ Data to Detect and Map Sand Dunes Fields in the Emirate of Abu Dhabi, UnitedArab Emirates [Saleous Nazmi, Issa Salem, Saeed Rami] 3. Semi-automatic Ship Detection using Pi-SAR-L2 Data [Katmoko Ari Sambodo] 4. Satellite Derived Bathymetry Using Physics Based Algorithms and Multispectral Satellite Imagery [Magnus Wettle, Knut Hartmann, Abhay S. Mittal, Thomas Heege] 5. Use of Remote Sensing Technology for Non-Invasive Survey of Wall Paintings, Plasters and Pictures Poster [Karel Pavelka, Eva Matouskova] 6. UAV-based Fast Image Orientation for Disaster Response [Wenhan Xie, Yucai Xue, Li Zhang, Jie Sun] 7. A New Method for Retrieval of SST from ASTER Image [Chen Chu-qun, Zheng Shan-shan] 8. Lithological And Structure Features Extraction Using Multi Data Fusion Alogrithms, North Eastern Desert, Egypt [Safaa Muhammed Hasan] 9. Rice Cultivation Date Estimation Using PIA Time Series MODIS Imagery [Boonyasith Khobkhun, Natasha Dejdumprom, Preesan Rakwatin, Akara Prayote,Anusorn Rungsipanich] 10. Assessment of Carbon Stock and Emissions on District Scale as a Contribution to MRV - Methods, Results and Lessons Learnt from the Indonesian-German FORCLIME cooperation project [Peter Navratil, Florian Siegert and Helmut Dotzauer]
<p>Session H-4 SC-03-Environmental Science <i>Chairs:</i> <i>Dr. Pradeep Goswani</i> <i>Hongcheng Liu</i></p>	<p>Session H-5 SC-09- Geographical information system & remote sensing input <i>Chairs:</i> <i>Prof. Junichi Susaki</i> <i>Nirut Chalainanont</i></p>

<ol style="list-style-type: none"> 1. The Software Design and Development of Temperature and Emissivity Separation Based On TASI Data [Hongcheng Liu , Chuan Zhang, Fawang Ye, Jieli Zhang] 2. Study on Forest Canopy Density Estimates of the Southern Sierra Madre Mountain Range, General Nakar, Quezon, Philippines Using Optical Images [Sheryl Rose Reyes, Jose Don De Alban, Angelica Kristina Monzon] 3. Retrieving of Renewable Wave Energy from Envisat Satellite Data [Maged Marghany] 4. Genetic Algorithm for Oil Spill Automatic Detection from Multisar Satellite Data [Maged Marghany] 5. A Crop Drought Index for Groud Truth validation [Jinlong Fan] 6. Mapping Seasonal Forest Background Reflectivity Over North Asia With Multi-Angle Imaging Spectro Radiometer (MISR) Data [Tong Jiao, Ronggao Liu, Yang Liu, Jing M. Chen, Jan Pisek] 7. Estimation of Apple leaf water content based on new indexes [Haikuan Feng, Guijun Yang, Xiuliang Jin, Jianhua Guo, Xinchuan Li, Zhenhai Li , Zhiming Guo] 8. Environmental Impact Assessment of Quarries and Crushers in Al-Abiad Village, Southern Al-Batina Governorate, Sultanate on Oman [T Al-Awadhi, A Al-Saqri, El-Sammak Amr] 9. Multi-Temporal Land use and Land Cover Analysis During 30 Years Period in Sakaerat Biosphere Reserve, Thailand [Intareeya Sutthivanich, Suwit Ongsomwang] 10. CoralPatch Mapping With Airborne Bathmetric Lidar [Wei-Tsun Lin 1 and Peter Tian-Tuan Shih] 	<ol style="list-style-type: none"> 1. An Android-based Interface of Mobile Network for Real-time Field Survey and Ground Truth Missions [Nirut Chalainant, Chamnan Kumsap, Piyanun Boonprasert] 2. Using High Level Architecture for An Information Exchange: A Dti's Integrated Approach of Modeling and Simulation [Teerapong Sontayamal, Nirut Chalainant, Chamnan Kumsap] 3. Utilization of Remote Sensing and Geographic Information System for Investigation of best Route Between Iraq and Kingdom of Saudi Arabia [Hashim Ali Hasab, Maged Marghany, Abdul Haq Hadi Abed Ali, Anuar Bin Ahmad] 4. Application of Geoinformatics and Analytical Hierarchy Process for Environmental Hazard Mapping in Dong Trieu District, Vietnam [Nguyen Kim Anh, Vivarad Phonekeo, Vo Chi My, Pham Tien Dat] 5. The Impact of Expanding Rubber Tree Plantation on Soil Erosion in the Mekong Sub Basin. Wasana Putklang, Charat Mongkolsawat, Rasamee Suwanwerakamtorn] 6. A Web Map Service Implementation for Assessment System of Tree Biodiversity in Dry Dipterocarp Forest [Yaowaret Jantakat, Sutin Pooking, Ladjai Sae-Low, Ekkachai Sae-Jung, Sanun Kranka] 7. A Framework for Scaleless Feature-based Topographic Map Database [Jung-Hong Hong, Chin-Sung Yang] 8. Developing Web-GIS for the Provincial Spatial Planning Database [Samsu Arif, Ilham Alimuddin, Nurjannah and Sumbangan Baja] 9. A Census on the Spatial Data Availability and Services on the Indonesian Local Government Websites [Heri Sutanta, Yunanta Daniswara, Erna Kusumawati]
<p>Session H-6 SC-05-Hazards <i>Chairs:</i> <i>Dr. Nguyen Dinh Duong</i> <i>Chinatsu Yonezawa</i></p> <ol style="list-style-type: none"> 1. Direct Economic Losses Due to Land Subsidence in Urban Areas of Bandung Basin (Indonesia) [Irwan GUMILAR, Hasanuddin Z. ABIDIN, Lambok M. HUTASOIT, Dudung M. HAKIM, Teguh P. SIDIQ, Heri ANDREAS] 2. Flood Hazard Mapping Through Landscape Analysis [Th. Retno Wulan, Aris Haryanto , Junun Sartohadi] 3. Taiwan's National Laboratories Synergy of Earth Observation Technologies in Disaster Reduction Application [Ming-Chih Cheng, Guey-Shiang Chang, Natasha Huang, Jenny Cheng] 4. Temporal Change Detection on Tsunami Damaged Agricultural Field by the 2011 Tohoku Earthquake Using TerraSAR-X Data [Chinatsu 	<p>Session H-7 SC-04-Natural Resources <i>Chairs:</i> <i>Mohammad Abdullah Al Faruq</i> <i>Bryan Clark B. Hernandez</i></p> <ol style="list-style-type: none"> 1. Remote Sensing Techniques for Land Use Classification of Madhupur Deciduous Forest Area in Bangladesh Using Quick Bird Image [Mohammad Abdullah Al Faruq, Masato Katoh] 2. Evaluation of Gas Content of Coalbed Methane Reservoirs Based on Super-Low-Frequency Electromagnetic Exploration Technology [Yanbing Bai, Qiming Qin] 3. Interannual Variations in Philippine Rice and Corn Production Under Changing Climate [Gay Jane Perez, Josefino Comiso] 4. Estimation of Rubber Tree Plantation Areas in Western Mindanao, Philippines Using Landsat Imagery and Physical Data [Bryan Clark B.

<p>Yonezawa, Manabu Watanabe, Genya Saito]</p> <ol style="list-style-type: none"> 5. Detection of Surface Displacements and Liquefied Areas in the 2011 Christchurch Earthquake From SAR Data [Wen Liu, Masashi Matsuoka, Fumio Yamazaki, Takashi Nonaka, Tadashi Sasagawa] 6. Quantum GIS Based Optimal Evacuation Route Identification During Flood Disaster [Dr. R.D. Garg, Dr. D.S. Arya, Dr. S.P. Aggarwal, Anurag Aeron IIT Roorkee, IIRS, Dehradun] 7. Analytical Modeling of Tsunami Generation Phase in 2010 Chile Earthquake [Soran Parang] 8. Resilience against Disasters using Remote Sensing and Geoinformation Technologies for Rapid Mapping and Information Dissemination (RAPIDMAP) [Kohei Cho] 9. The Correlation of Landuse Change and Flooding in Mukim Gadong, Brunei Darussalam [Siti Liyana Binti Abdul Rahim, Dr. Jose Edgardo L. Aban] 10. Dar Sila Oracle: Designing An Early Warning System for Drought Conditions in Dar Sila Region of Eastern Chad [Alexander Liss, Elizabeth Bontrager, Elena N. Naumova, Anastasia Marshak] 	<p>Hernandez1,a, Sheryl Rose C. Reyes1,b and Dr. Ariel C. Blanco]</p> <ol style="list-style-type: none"> 5. Geospatial Approach for Carbon Sink in the Timbered Biomass for Tropical Wildlife Reserve [Pavan Kumar, Vandana Tomar] 6. Mixed Pixel Decomposition of TM Image in Complex Topography Area [Jinliang Wang, Haimei Li] 7. Estimation of maize yield using a process-based remote sensing mechanism model in the Northeast China Plain [Jiahua Zhang, Yanjing Tan, Fengmei Yao] 8. Detection of Oil Palm Plantation Area Using Object Based Classification in Sarawak, Malaysia [Hadi Fadaei, Rikie Suzuki, Reiichiro Ishii, Ram Avtar] 9. 10. Advanced Remote Sensing Techniques for Forest Monitoring on Local, Regional and National Level: Multi-Sensor Assessment of Forest Degradation, Forest Biomass and Carbon Emissions for MRV [Florian Siegert, Jonas Franke, Juilson Jubanski, Peter Navratil, Uwe Ballhorn]
<p>Special Session H-9 SC-07- Health Science <i>Chairs:</i> <i>Prof. Mitsuharu Tokunaga</i> <i>Ashraf M Dewan</i></p> <ol style="list-style-type: none"> 1. Implementation of electronic-based malaria information system for early case detection and individual case management in provinces along the Thai-Myanmar and Cambodian border [Amnat Khamsiriwatchara] 2. Remote Sensing and Spatial Statistics Approach for Analyzing Relation Between Waste Volume and Temporary Waste Disposal Towards Public Health [Ine Fajria, Tedy Priadi] 3. Integrating Geospatial, Census and Medical Data to the Study of Quality of Life and Dengue Incidences in Dhaka Metropolitan Area, Bangladesh [Ashraf M Dewan, Robert Corner, Masahiro Hashizume] 4. Identification of Breeding Sites for Malaria Mosquito by Remote Sensing Technique in Northeastern Papua Indonesia [Fedri R. Rinawan, Ryutaro Tateishi, Saeid Gharechelou, Nguyen Thanh Hoan] 5. Analysis of Environmental Quality Settlements Conditions Using Quickbird Imagery (Case in Tegalpanggung Village, Yogyakarta, DIY) [Firma Vestri Aswari, Noviani Jatiningrum] 	<p>Special Session H-9 SC-07- Health Science <i>Chairs:</i> <i>Prof. Mitsuharu Tokunaga</i> <i>Ashraf M Dewan</i></p> <ol style="list-style-type: none"> 6. Implementation of electronic-based malaria information system for early case detection and individual case management in provinces along the Thai-Myanmar and Cambodian border [Amnat Khamsiriwatchara] 7. Remote Sensing And Spatial Statistics Approach For Analyzing Relation Between Waste Volume And Temporary Waste Disposal Towards Public Health [Ine Fajria] 8. Integrating Geospatial, Census and Medical Data to the Study of Quality of Life and Dengue Incidences in Dhaka Metropolitan Area, Bangladesh [Ashraf M Dewan] 9. Identification of Breeding Sites for Malaria Mosquito By Remote Sensing Technique In Northeastern Papua Indonesia [Fedri Ruluwedrata]
<p>15.30 - 16.00</p>	<p>Break (Poster session-8)</p>
<p>16.00 - 17.00</p>	<p>Plenary: "Togetherness in Remote Sensing"</p> <ol style="list-style-type: none"> 1. Recommence of ACRS 2013 (Dr. Dewayany Sutrisno, ISRS Chairman, Prof. Kohei Cho, AARS Chairman, Prof. Dr. Shunji Murai, Others)

- | | |
|--|--|
| | <ol style="list-style-type: none">2. Proposed ACRS 2013 (Myanmar Delegate)3. Awards |
|--|--|

Plenary (Closing ceremony)

Friday-Wednesday, 25-30 October 2013

- | | |
|--|---|
| | <ol style="list-style-type: none">1. Summer School2. Optional Nature, Culture & Scientific Excursion3. National Geographic Teachers Workshops |
|--|---|

