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Prof. Dr. Shunji Murai, General Secretary, Asian Association Remote Sensing

Distinguished Delegates, Distinguished Guests, Distinguished Participants, Ladies and Gentlemen!

On behalf of Asian Association on Remote Sensing (AARS), I as General Secretary would like to welcome all of you to the 27th Asian Conference on Remote Sensing (ACRS) here in Ulaanbaatar, a beautiful and historical city of Mongolia. I am happy to know that this year is a special memorial year of the 800th anniversary of Chinggis Khaan Empire.

It is my great pleasure to be able to organize the ACRS for the second time in Mongolia since 1992 in cooperation with the local organizing committee. I congratulate the Organizing Committee as well as Mongolian scientists to host this important event for Asian remote sensing scientists in spite of many difficulties including finance. Since the very beginning, Mongolia has been one of most positive participants at ACRS in the past. Particularly Dr. Saandar contributed to the past ACRS's as National Delegate to AARS for long years.

As you may know, the ACRS has kept a unique style as follows as compared with other International or Western conferences.

1. The ACRS is fully open to any nation and region.
2. Non-discrimination, which means any full participant must pay the registration fee.
3. Self fund participation.
4. Inexpensive registration fee of just 100 US \$ including conference, parties, proceedings in CD ROM etc. I appreciate the organizing committee for the generous manner on behalf of participants.
5. Home made but not commercialized conference!

The ACRS has been sustained with the following philosophy.

1. Friendship First and Money After!
2. For Asian, by Asian and with Asian!
3. Asian style with Asian culture!

My task as General Secretary is to preach the philosophy to younger Asian scientists to achieve the sustainable ACRS for coming years. I am surprising myself how I could manage the ACRS for more than 25 years. The answer is clear. I have been supported by Asian friends who understand the philosophy. It pushed me up until now. I want to thank you for your support.

One of the most important outcomes of the ACRS is friendship as I mentioned before. Through this conference you may have more chance to

Welcome Messages

exchange opinions and ideas with your new and old friends to promote the true growth of remote sensing in Asia. You may expand your human networks after the conference and keep good communication with your friends. This would be the real purpose of the spirit of Friendship First and Money After.

Finally I wish you to enjoy this conference and contribute yourself to improve the quality of the conference by presenting papers, discussing technical issues, making performance at welcome party, exchanging mail addresses etc., whatever you can do for the conference.

Again, I appreciate the Organizing Committee to have made a beautiful arrangement for the conference.

Thank you.

Dr. Oe. Enkhtuvshin, Minister of Education, Culture and Science

Ladies and Gentlemen,

I would like to congratulate and welcome all of you from around the world on the opening of the 27th Asian Conference on Remote Sensing in Ulaanbaatar, Mongolia.

At this conference, we expect that a number of advances will be presented and I am sure that detailed discussions will be held on the themes of primary importance, the future direction of research and international collaboration in the field of remote sensing technology. It seems to be a particularly opportune moment to see how the research of remote sensing technology development has been advancing for future remote sensing field, there remain a lot challenges to be over come and international cooperation is becoming increasingly important. It is very significant now to redefine and reconfirm the aim and direction on the Asian remote sensing community.

This is the second time the 27th Asian Conference on Remote Sensing has been held in Mongolia in 1992. We have been discussing and preparing a lot to make this distinguished event more successful than ever. Now I am very happy to inform all of you that we are ready and are sure to provide you with opportunity to discuss, to exchange information of cutting edge technologies, and also experience modern and traditional culture of Mongolia.

I sincerely hope all of you will meet and enjoy friendship with as many locals as possible through various social programs including welcome events and cultural experiences during the conference.

2006 is a particularly significant year for Mongolia, celebrating the 800th Anniversary of Chinggis Khaan Empire. We are sure that this ACRS2006 will become a meaningful opportunity not only to discuss remote sensing but also to experience traditional Mongolian culture.

I sincerely wish the great success of the conference, and its important step forward toward the development of human wisdom and future. I also hope that you will return to your home country with a plenty of professional outcomes and a happy memory in Mongolia.

Thank you for your attention.

Cosmonaut, Dr. J. Gurragcha, Member of the Parliament, Mongolia

Ladies and Gentlemen,

It has been approved by the research of historians and archeologists that from ancient time, Mongolians have interested in eternal blue sky and universe and studied their influences on the human Earth and used them for the daily lives. While living within comprehensive area, Mongolians successfully used the stars as direction indicators for different activities such as hunting, establishing of mailing offices, caravan as well as during the wars.

I am very proud to remember that while flying to open space by Soyuz-39 spacecraft which was launched in March, 1981 within the framework of the international Intercosmos program, I took a star map containing about 1400 Mongolian names used by our ancestors in the 17th century. Working together with Russian cosmonauts V.Kovalenok, V.Savinykh and V.Zhanibekov in Soyuz-39, Salyut-6 and Soyuz-T4 spacecraft complex for 7 days, we implemented large research projects prepared by Mongolian scientists and researchers. For example, we tested 25 experiments in such fields as astrophysics, technology, medical science, biology and earth science and all of these were the results of the research conducted by Mongolians scholars for many years.

Mongolia commenced space research in 1956-1957 connecting its ties with the academic organizations of other foreign countries and the first studies included Earth magnetic field study and optical observation of the Earth by the satellites. As Mongolia has abundant historical experience in stars and astrology and the establishment of Khurel togoot astronomical observatory which is equipped by Russian and German scientific instruments significantly contributed to the growth of young Mongolian researchers.

Mongolia became a member of the Intercosmos program in 1967, a member of the Intersputnik organization in 1971 and implemented setup of the receiving station of the Meteor satellite in 1971.

One of the first large events in the space research cooperation was the participation in the launch of Intercosmos-6 satellite of 1972 used for the study of the mutual influence of the space high energy nuclei as well as the processing of acquired data sets.

In your fields, one of the first large projects included multispectral data acquisition from Soyuz-22 spacecraft launched in 1976 and further creation of thematic maps of a scale of 1:1,000,000 in 1978. It was large work that connected science with the cartographic mapping industry.

I think that the scientific experiments such as Biosphera-Mon, Erdem and

Spektr-Mon which were implemented during my space flight, also contributed to both science and industry.

Over the last 10-15 years, the young researchers have been provided with different advanced opportunities. Their working areas have been expanding, meanwhile using new and modern technologies. I think, the real example of this achievement is the fact that you - scientists of Asia as well as the rest of the world are meeting here in Ulaanbaatar city and discussing about your achievements and success.

Finally, I wish all participants and distinguished guests of this Asian conference all the best and wish you all to enjoy this conference.

Thank you.

Honorary Chairman

Dr. Oe. Enkhtuvshin, the Minister, Ministry of Education, Culture and Science, Mongolia

Conference Chairman

Dr. M. Saandar, President, Mongolian Society for Photogrammetry and Remote Sensing, Mongolia

Vice Conference Chairman

Dr. M. Ganzorig, Director, Institute of Informatics and Remote Sensing, Mongolian Academy of Sciences (MAS), Mongolia

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Shunji Murai	General Secretary, AARS, Japan
Manu Omakupt	Deputy General Secretary, AARS, Thailand
D. Regdel	General Secretary, MAS, Mongolia

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A. Bayasgalan, Director, School of Geology, the Mongolian University of Science and Technology, Mongolia

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S. Hudulmur, Director, Information Center, the Ministry of Environment and Nature, Mongolia

M. Bagarch, President, NGO, Mongolia

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The 27th Asian Conference on Remote Sensing

October 9-13, 2006

Asian Conference on Remote Sensing (ACRS) is an annual conference, which is held under the auspices of Asian Association on Remote Sensing. AARS was formed in 1981, and its principal activity is to hold the Asian Conference on Remote Sensing. The association also conducts other remote sensing activities consistent with its aims. ACRS is aimed to provide a forum for the scientists, engineers, researchers and users of remote sensing and geo-informatics technology in scientific and academic experience exchange.

The 27th ACRS will provide an opportunity for participants to meet and deliberate on advanced technology, to establish collaboration ties, and to foster friendship. The 27th ACRS is jointly organized by Asian Association on Remote Sensing (AARS), The Mongolian Society for Photogrammetry and Remote Sensing (MSPRS) and Ministry of Education, Culture and Science (MECS).

Ulaanbaatar Capital City

Ulaanbaatar today is a modern city of approximately 1 million residents. It reflects both as pasts of present day Mongolia society: nomadic culture and modern society.

Ulaanbaatar is located near the Bogd Khan Mountains (altitude 1,350 m), and is built on the banks of the Tuul River. In the days of the great Mongolian Empire, Kharakhorum, which is located to the west in the Orkhon Valley, served as the capital city of the country. However, in the 17th century Kharakhorum was abandoned as capital, and the government opted for an existence as a migratory tent city.

In 2006, Mongolia celebrates the 800th Anniversary of the Great Mongolia Empire, we look forward to you joining in the celebration. This new nomadic settlement was named Uрга, and was in reality a large caravan of gers that moved from place to place. Eventually in 1778 it settled in its present location of Ulaanbaatar

ACRS2006 EVENTS LOCATION MAP October 9-13, 2006 Ulaanbaatar, Mongolia



Conference Information

Cultural Palace
(Opening Ceremony)



Chinggis Khaan
Hotel (Conference
Venue)

Bayangol Hotel
(Welcome Party)



Information for Oral Presentation

The speakers are requested to deliver their soft copy (PowerPoint, etc.) to the secretariat desk, which is located in third level of Chinggis Khaan Hotel on Monday 9, October, 2006 from 08.30-18.00 hrs and during the conference period.

Oral presenters are requested to arrive at the assigned session room 30 minutes prior to the start of the session in order to meet the session chairman for final preparation.

Information for Poster Presentation

- Poster authors should contact and register their posters with ACRS2006 poster registration desk 30 minutes prior to the start time of their poster sessions. The poster session area is located on the third level near to the Conference rooms. Due to limited space, place based on “FIRST COME and FIRST CHOICE”.
- In the beginning of each poster session each presenter will have 2-3 minutes to explain comprehensively her/his work.
- Poster authors are requested to stand by around their poster session area to give presentations to the audience.
- Please remind that due to limited space, authors should collect their posters after each session is completed.
- The poster desk staff will assist you in poster posting/collecting and coordinating with the ACRS 2006 Secretariat.

Internet

Internet is available during the conference at the third level next to Conference rooms area. Several PC computers are available from October 9 to October 13, 2006.

Registration

- All participants are requested to register at lobby of the Chinggis Khaan Hotel.

The registration will be started on October 8, 2006, Sunday

13.00-21.00 at Chinggis Khaan Hotel,

08:00-09:45 October 9, Monday, Registration at Cultural Palace

13:30-17:30 October 9, Monday, Registration at Chinggis Khaan Hotel

Registration Desk will open on October 10 to 12 from 08:00 to 17:30 during the conference time.

- Registration fee and Receipt
Payment must be made at registration desk.
 - Participant who has already paid for the registration fee can get the Receipts at registration desk.
 - Participant who makes payment during the conference can get the Receipts at the registration desk.**(Payment preferably *in cash 100 US dollars*)**
- For your convenience, please register on October 8, 2006, Sunday

Registration Fee

Foreign Participants – US\$ 100

Local Participants – Tug. 20,000 ₮

The registration fee per person for all participants, including session

Chairpersons and presenting authors. The fee includes:

- Attendance to the Conferences
- One CD-ROM Proceedings and conference souvenir
- Participation in the Opening and Closing Ceremonies
- Lunch and Coffee breaks
- Participation in Welcome Party
- Participation in the Exhibition

Day 1: October 9, 2006 (Monday)

Opening Ceremony at Cultural Palace, Sukhbaatar Square

10:00-12:00, October 9, 2006 Monday

Chaired by Dr. M. Saandar, Conference Chairman

Opening Speech: His Excellency Dr. Oe. Enkhuvshin, the Minister, Ministry of Education, Culture and Science, Mongolia

Welcome Address: Emeritus Professor Shunji Murai, General Secretary, Asian Association on Remote Sensing (AARS)

Address: Emeritus Professor John Trinder, First Vice President, ISPRS

Address: Mr. Kaoru Mamiya, Vice President, Japan Aerospace Exploration Agency (JAXA)

Address: Cosmonaut, Dr. J. Gurragchaa, Member of the Parliament, Mongolia

11:00-12:00 Cultural Performance by Mongolian Children

12:00-13:30 Lunch at Restaurant 5F, Chinggis Khaan Hotel

(Lunch is provided to those registered participants)

Keynote Speech (25 min. presentation and 5 min. discussion)

13:30-15:00 Plenary Session At Chinggis Khaan Hotel

Chairmen: Dr. M. Ganzorig

- K-1: Prof. John van Genderen:
Honorary Professor, National University of Mongolia
“Geoinformation Developments in Mongolia: Needs, Trends and Role of Human Resources”
- K-2: Prof. Yoshifumi Yasuoka: Institute of Industrial Science, University of Tokyo, Japan,
“How can remote sensing contribute to Global Warming Issue?”
- K-3: Mr. S. Hudulmur, Director, National Information Center, Ministry of Nature and Environment, Mongolia
“Applications of Remote Sensing in Mongolia”

15:00-15:30 Coffee/Tea Break (Exhibition will start during the break time)

Invited Papers (18 min. presentation and 2 min. discussion)

15:30-17:30

Chairmen: Dr. M. Saandar

- K-4: Prof. Haruhisa Shimoda, Tokai University, Japan
“ALOS Sensors and Contributions to Asia”
- K-5: Dr. Wang Zhiyong, Chinese National Committee for Remote Sensing, CNCRS, Beijing Landview Mapping Information Technology Co., Ltd
“Development of Remote Sensing Satellite in China and Beijing-1 Small Satellite”
- K-6: Prof. A.J.Chen, National Central University, China Taipei
“Prospect of FORMOSAT”
- K-7: Prof. Chu Liangcai, Chinese Association of Remote Sensing Application
“Applications of Remote Sensing in China”
- K-8: Prof. A.P. Cracknell, University Technology Malaysia, UK
“VIIRS, The Successor to the AVHRR”
- K-9: Dr. Jack Scott, Australian Aerospace Consulting, Australia:
“MetOp to NPOESS: A New Family of Earth Monitoring Satellite”

18:30-21:00 Welcome Party at Bayangol hotel, Chinggis Khaan Avenue, 5

Day 2: October 10, 2006 (Tuesday)

Technical Program at Chinggis Khaan Hotel

09:00-10:30

Room 1: Session A-1: Agriculture.

Chairmen: N.Altansukh

- A-1: GIS Application to Spatial Distribution of Soil Salinity Potentials in Northeast Thailand
C. Mongkolsawat, S. Paiboonsak, Thailand
- A-2: Assessment Differences in Growth and Yield of Rice Crop between Satellite Data Simulated from Near Ground Hyperspectral Data
Chwen-Ming Yang, China Taipei
- A-3: Biomass Estimation at Miyagi Prefecture in Northeast Japan using RS and GIS
Ryoko Iwasa, Japan
- A-4: Predicting Tillage Practices and Agricultural Soil Disturbance in North Central Montana with Landsat Imagery
N. Battogtokh, Mongolia
- A-5: Biological Soil Crusts internal Classification Using Ground – Level Spectra Temporally-based Image selection for detection of Biological Soil Crusts in Southern Australia
Ardavan Ghorbani, David Bruce, Australia

Room 2: Session B-1: Geology

Chairmen: A.Bayasgalan

- B-1: Application of Multi-sensor Image to Monitoring Mining Activities and Related Environment Changes: a Case study at Daye, Hubei
Yu Shiyong, China
- B-2: Planning and Implementation of National Geo-scientific, Geo-Economic and Environmental Information Management System - an experience report
Andress Barth, Germany
- B-3: Debris Flow Occurrence Factors with Rough Sets Theory
H. C. Pai, China Taipei
- B-4: Monitoring of mining areas of Mongolia using satellite data
R. Tsolmon, Enkhbayar, Erdene, Mongolia

- B-5:** Rate of Sand Dune Movement and Aeolian Deposits Distribution with the Information Technology
Mushtaki T. Jabbar, China

Room 3: Session C-1: Urban

Chairmen: Sh. Enkhtsetseg

- C-1:** Progressive Streaming and Rendering of 3D Terrain for Cyber city Visualization
Hau-Shiung Liu, China Taipei
- C-2:** A study on an Efficient Making Method of Detailed Time-series Urban Dataset by Spatial Integration of Yellow-page Data and Digital maps for Urban Analysis
Yuki Akiyama, Japan
- C-3:** Integrating GPS, GPRS and Inmarsat for Improved Efficiency
Albert Cheung, China Taipei
- C-4:** Evaluation of Urbanization Process in Ulaanbaatar City using Multitemporal RS Images
D. Amarsaikhan, Mongolia
- C-5:** 3D Structure Line-based Building Roof Reconstruction
Chieh-Chung Cheng, China Taipei

Room 4: Session D-1: Oceanography/Meteorology

Chairmen: N.Erdenetuya

- D-1:** Retrieving Water Depth, Inherent Optical Properties and Bottom Reflectance from Hyperspectral Data by Spectrum Matching
Narvada Dewkurun, Singapore
- D-2:** Taipei Hot Spring Web Geographic Information System
Chia-Hui Shih, China Taipei
- D-3:** HY-1 Satellite and Applying its Data to Monitoring Red Tides
Lin Mingsen, China
- D-4:** Determination of the Cloud Threshold for MODIS Imagery over Taiwan Region
D. Gerelmaa, China Taipei
- P-81:** Simulation of Tsunami Wave Spectra on Sri-Lanka and Indonesia
Maged Marghany, Malaysia

10:30-11:00 Coffee/Tea Break

11:00-12:30

Room 1: Session A-2: Agriculture

Chairmen: N.Altansukh

- A-6:** An Investigation on Spectral Properties and Soil EC to Map Salt-affected Soils in Thailand
Rajendra P. Shrestha, Thailand
- A-7:** Rice Yield Estimation using Aero Digital Imagery
Tzu-yi Liao, China Taipei
- A-8:** Spatiotemporal Characterization of Mongolian Grassland Based on Vegetation Trend Analysis
Akira Hirano, Japan
- A-9:** GIS Application for Mulberry Rust Disease at Pophra District, Tak Province
Vicharn Amarakul, Thailand
- A-10:** Using Uncertain Element in the Multi- Spectral Imager Assessment
Chih-Hao Ou-Yang, China Taipei

Room 2: Session E-1 Disaster

Chairmen: R.Oyun

- E-1:** Assessment of Tsunami Damage to Mangrove in South Eastern Coast and South Andaman Islands of India using Remote Sensing and GIS
Yousef Ali Hussein, The Netherlands
- E-2:** Risk Assessment of Forest Fire Vulnerability
Anusorn Rungsripanij, Thailand
- P-34:** Field Validation of Rapid Post - Disaster Damage Maps of the 27 May Indonesia Earthquake Site
Norman Kerle, The Netherlands
- E-4:** The Use of MODIS Active Fire Products for Strategic Fire Management
Meissner Bernd, Germany
- E-15:** Assessment of Flood Vulnerability and Mitigation planning in Munshiganj District, Bangladesh using Remote Sensing and GIS
Kulapramote Prathumchai, Thailand

Room 3: Session C-2: Urban

Chairmen: Sh.Enkhtsetseg

- C-6:** Building Modeling by the Integration of Multi-Source Data
Lien Chien Chen, China Taipei
- C-7(P-46):** Urban Sprawl and Landuse Change in Suvanabhumi Airport
(New Bangkok International Airport-NBIA) Area, Bangkok,
Thailand
Varaiporn Sintop, Thailand
- C-8:** Investigation of Land Use in Residential Areas of Ulaanbaatar City
Using Very High Resolution Satellite Images
D. Amarsaikhan, Mongolia
- C-9:** Multi-scale Generalization of Three-dimensional Building Features
in Urban Area
Cheng-Lien Fan, China Taipei

Room 4: Session D-2: Oceanography/Meteorology

Chairmen: D.Gerelmaa

- D-6:** The Dynamic Analysis of Coastal Land Use Patterns in Inner
Lingdingyang, The Pearl River Estuary
Xia Zhen, China
- D-7:** Spectral Reflectance of Clouds in Multiple- resolution Satellite
Remote Sensing Images
L. K. Kwoh, Singapore
- D-9:** Detection and Analysis of Post – Typhoon Three – Dimensional
Changes in Haeundae Beach Topography using GPS and GIS
Technology
Chul Uong Choi, Korea
- D-10:** Shoreline Detection and Changes of North Banggi Island, Sabah,
Malaysia
Ejria Saleh, China Taipei

12:20-13:30 Lunch

13:30-15:00 Poster Session P-1

(Please register at Poster Registration Desk in advance to get the place based on
“First Come and First Choice”)

- P-1:** Abstraction Information of Active and Concealed Faults by the Remote Sensing Technology
Aixia Dou, China
- P-2:** Extracting Urban Building Density and Floor area ratio Based on QuickBird Image
Jin-ye Li, China
- P-3:** Spatial and Temporal Variation of Summer Corn
Li-Jing, China
- P-4:** The Decision-making Support System of Sustainable Development of Agriculture and Pasturing Industry in the Ecology-pasturing Economic Zone of Yanmengyuan of Shanxi Province Based on “3S” Technology
Wang Yimin, China
- P-5:** Study the Vanished Causation of Culture of Kuahu Bridge in North of Zhejiang Province with Remote Sensing Data
Wng Yongjiang, China
- P-6:** The Influence of Atmospheric Correction on Remote Sensed Parameters in multi-temporal Evapotranspiration Monitoring
Wu Bing Fang, China
- P-7:** A Study on the Method to Retrieve land Surface Reflectance based on IRS P6 Data
Zhang Zhaoming, China
- P-8:** Quantitative Remote Sensing by the Combination of LiDAR, Sun Photometer and Earth Observation Images
Wei Gong, China
- P-9:** The SSMC Method for the Classification of High Spatial Resolution Remotely Sensed Images
Xin Huang, China
- P-10:** An Analysis of Coastal Topography and Land Cover Changes at Haeundae Beach, South Korea, by Merging GIS and Remote Sensing Data
Chul Uong Choi, Korea
- P-11:** Wildfire Fuel Mapping Using hyperspectral Remote Sensing Data
Yeosang Yoon, Korea
- P-13:** Developing 3D Satellite Images Based Geographic Information System for Coast Disaster Area Management
Myung Hee Jo, Korea

- P-16:** Introduction of The Forest Renovation Activity by Fishermen in Northeast Japan, using RS and GIS
Daisuke Kunii, Japan
- P-17:** Estimation of the Bamboo Aboveground Biomass Using Different Resolution Satellite Data
Fuping Zhang, Japan
- P-18:** Synergetic use of MODIS and ASTER/ Landsat TM/ETM Data for Land Cover Classification in Arid and Semi-arid Area of the Northern China
Hasi Bagan, Japan
- P-19:** A New Method for Individual Tree Detection Using Airborne LiDAR Pulse Data
Hitoshi Taguchi, Japan
- P-20:** Self-Information Project: A Study on Context -aware and Relationship Based on self-information
Jun Kumagai, Japan
- P-21:** Extraction of Nazca Lines by Satellite Data
Katsuya Takaku, Japan
- P-22:** 3D Images of the Remains of the ancient Mojos civilization from Digital Photographs
Kazuki Ishii, Japan
- P-23:** Field Detection of Non-Use Paddy Fields at Miyagi Prefecture in Japan Using Satellite and GIS Data
Kazumasa Osawa, Japan
- P-24:** Projecting Future Food Demand and Supply: Global Modelling for Land Use and Cover Change
Kenji Sugimoto, Japan
- P-25:** Identification for Relic Excavation of the Amazon Civilization from JERS-1/ SAR and ASTER images
Kohta Imai, Japan
- P-26:** Land use management for the prevention of losses outbreak in Ordos of Inner Mongolia
Takesi Yamamura, Japan
- P-27:** Diastrophism Evaluation of Niigata Chuetsu Earthquake by Aerial Photographs
Nana Mayuzumi, Japan
- P-28:** Storm Surge Disaster of Typhoon 9918 at New Moji District with a

- Distributed Runoff Model
Naoki Okada, Japan
- M-9:** Automatic Registration of Ground-based LiDAR Data Sets by Using 3D
Tzu-Yi Chunag, China Taipei
- Q-20:** Bridge Monitoring System Using Close Range Digital Photogrammetry and Web GIS
Jong Hyeok Jeong, Japan
- Q-27:** Accurate Geomatic Transformation of Laser Scanner Data by Multi Surfaces Measurement
Kazu Kinoshita, Japan
- Q-28:** Establishing Image Database for Slope Disaster Information System with GPS Digital Camera and Web GIS
Yuta Yamamoto, Japan
- Q-55:** Changes of NDVI associated with typhoon disturbance in subtropical forest ecosystems in central Taiwan
Meng-Fen Lee, China Taipei
- Q-56:** Sedimentary Environmental Monitoring Using Satellite Remote Sensing on Tidal Flat in the West Coast of Korea
Joo Hyung Ryu, Korea
- Q-57:** Underwater and airborne remote sensing of corals.
Cho-Teng Liu, Yuan-Jie Chyou, Yong-Ching Fu and Chnag-Wei Lee, China Taipei
- Q-58:** Object oriented approach for rubber and oil palm classification.
Sutat Suravanit, Thailand
- I-11:** An Error Correcetion Method for NOAA Image
An Ngoc Van, Japan
- Q-59** Road extraction from very hight resolution remote sensing imagery with level set moethods
Hongchao Ma, China

15:00-15:30 Coffee/Tea Break

15:30-17:30

Room 1: Session G-1: GIS

Chairmen: Ts.Battsetseg

- G-1:** Mobile Wireless GIS with Near Real-Time Access to Satellite Imagery
A. V. Huynh, Singapore
- G-2:** Elevation Surface Interpolation of Point Data using Different Techniques a GIS Approach
Kulapramote Pratumchai, Thailand
- G-3:** The Query System of Eco-environment Remote Sensing Monitoring Theme for the Three Gorges Project based on WebGIS
Xinhui Ma, China
- G-4:** Platform of Visualization and Web-based Collaboration of Spatial Information
Satoshi Ueyama, Japan
- G-13:** Use of GIS to Find the Risk Area of Leptospirosis
Nakornratchasima, Thailand
Sitthisak Moukomla, Siam Lawawirojwong, Pisut Naknuenwai, Anusorn Rungsripanij, Thailand

Room 2: Session E-2: Disaster

Chairmen: M.Odbayar

- E-5:** Time Series Analysis for Drought Monitoring and Impact Assessment on Agricultural Area in Khon Kaen Province, Northeastern Thailand
Darowan Kamthonkiat, Thailand
- E-6:** Compositing of MODIS Images for Burnt Area Detection in Southeast Asia
Jukka Iimani Miettinen, Singapore
- E-7:** A Bayesian Network for Landslide Susceptibility Map using Aerial Photo and DEM
Chi-Chung Lau, China Taipei
- E-8:** The Study of Flood Risk Assessment on the Mae Klong River by Integrated Hydraulic Model with Geographic Information System
Thudchai Sansena, Thailand
- E-9:** Combating Land Degradation and Desertification in Drylands of India using Remote Sensing Technology and GIS
T.S.Chouhan, India

Room 3: Session A-3: Agriculture

Chairmen: N.Altansukh

- A-11:** The Construction of Land-use Data Map for Efficient Management of Large-scale Irrigated Farmlands in Uzbekistan
Takeo Amano, Japan
- A-12:** Mapping of Basic Capacity in Rice Production Saved from Chemical: A Case of Sustainable agriculture Network in Phichit Province, Thailand
Achariya Nate-Chei, Thailand
- A-13:** Analysis of Spatial Distribution of Paddy Field in the Northeast China Obtained by Using a Mapping Method Adapted to MODIS Data
Satoshi Uchida, Japan
- A-14:** Application of Boosting to Improve Image Classification Accuracy in Rice Parcel with Decision Tree
H. H. Chen, China Taipei
- A-15:** A Suitable Schedule for Harvesting and delivering of Sugar cane (application using remote sensing and GIS)
Sununtha Kingpaiboon, Thailand

Room 4: Session F-1: Forest

Chairmen: J.Tsogtbaatar

- F-1:** Optical and Microwave Image Fusion to Detect and Monitor Illegal Logging and Tropical Rain Forest Encroachment in East Kalimantan, Indonesia
Yousef Ali Hussein, The Netherlands
- F-2:** Cancelled
- F-3:** Modelling Forest Canopy Using Airborne LiDAR Data
Jihn-Fa Jan, China Taipei
- F-4:** The Linear Mixture Model Applied to Landsat Data for Saxaul Mapping
B. Suvdantsetseg, Mongolia
- F-14:** Estimating timber volume in a commercial Eucalytus plantation from Landsat ETM+ imagery: Results from two aspects
Pranab J. Barauh, Japan
- F-15:** Net primary productivity estimation of Broadleaf forest by 3PG

model comparing with MODIS iamge
Supanlika Potithev, Japan

18:30-21:30

General Conference (1) at Mongolian Restaurant (Taliin Mongol) located at Trade Street, near National Historical Museum, and opposite to the Head Office of Golomt Bank (only for National Delegates)

Day 3: Oct. 11, 2006 (Wednesday)

09:00-10:30

Room 1: Session I-1: Data Processing

Chairmen: D.Amarsaikhan

- I-1:** Automated Optimum Size Determination of Artificial Neural Network for an Efficient and Accurate Satellite Image Classification
Joel Bandibas, Japan
- I-2:** Line Extraction in Remote Sensing Image using Hough Transform Based on Granular Computing
Lianh Jing, Chian
- I-3:** Texture Analysis for Three Dimension Remote Sensing Data by 3D GLCM
Chun-Kai Chang, China Taipei
- I-4:** The Investigation Land Surface Feature using Optical and SAR Images
M. Ganzorig, Mongolia
- I-5:** Fractal Analysis for Hyper-spectrum in Remote Sensing
Yamato Yamaura, Japan

Room 2: Session E-3: Disaster

Chairmen: Norman Kerle

- E-10:** Application of Satellite Data and Geographic Information System for Drought Risk Analysis in Bandanlanhoi district, Sukhothai Province
Wipop Paengwungthong, Thailand
- E-11:** Evaluation of Landside Hazard Potentials in Shei-Pa National Park
Ying-Hsu Liu, China Taipei

- E-12:** ALOS Palsar and Radarsat Application on Flood Detection in the Lower North of Thailand
Kannika Komwong, Thailand
- E-13:** Disaster Management in India – Some Issue
Narpat Sinh Rathore, India
- E-14:** Research and Management of Coal Fire in China
Wu Chacha, China

Room 3: Session G-2: GIS

Chairmen: D.Narantuya

- G-5:** Using SSM/ I- derived Air-sea Parameters to Analyze the Formation Mechanisms of Equatorial Typhoon Vamei
Chia-Chi Liu, China Taipei
- G-6:** GIS and Socio- Economic Study of Kaew Noy Dam
Makasri Chaowagul, Thailand
- G-7:** A Method of Data Transformation for Satellite Images Metadata for Remote Sensing Images
Z. Y. Zeng, China
- G-8:** An Analysis for Tenants Change Using Digital Telephone Directory and Town Map in Tokyo Region
Takeshi Shibuki, Japan
- G-14:** Application of Remote Sensing and Geographical Information System (GIS) for Coastal Zone Management off Cochin Coastal Region, India
Wimon Pathtong, Thailand

Room 4: Session F-2: Forest

Chairmen: Daneil Wyss

- F-5:** Shape-based Tree Crown Detection and Delineation in High Spatial Resolution Aerial Imagery
Min-Hsin Chen, China Taipei
- F-6:** Long-term Monitoring for Vegetation at Mt. Sugihara
Hanae Sato, Japan
- F-7:** Watershed Characterization Based on Changes in Land Use and Forest Cover
Abigail Joy Ramos-Dumaup, Philippines

- F-8:** Forestland Classification and Zoning with Liwoshe Working Circle
by Using Ecological Method
Yeong-Kuan Chen, China Taipei

10:30-11:00 Coffee/Tea Break

11:00-12:30

Room 1: Session I-2: Data Processing

Chairmen: D.Amarsaikhan

- I-15:** A new Feature Selection Method for EO-1/ Hyperion Image
Classification: A case study of Subei region, China
Li Xianbin, China
- I-6:** Development of Linux-based Archived Data Processing System in
JAXA/ EOC
Miyano Yoshikazu, Japan
- I-7:** A new Robust Data Compressor for LIDAR Data Compression
Biswajeet Pradhan, Malaysia
- I-8:** Proposal of the Methods of Evaluating Similarities between
Trajectories by Describing the Shapes of Them
Tomoyuki Suzuki, Japan
- Q-49:** Automatic Geometric Correction of Geostationary Weather Satellite
Images
Hyunsuk Kim, Korea

**Room 2: Special Session: Presentation Techniques to be presented by White
Elephants of ISPRS**

- S-1:** Emeritus Prof. John Trinder, University of New South Wales,
Australia: Project Proposal
- S-2:** Prof. Armin Gruen, ETH, Switzerland: Thesis Writing
- S-3:** Emeritus Prof. Shunji Murai: University of Tokyo: Oral
Presentation

Room 3: Session G-3: GIS

Chairmen: Kyehyun Kim

- G-9:** Geo-Informatics and Space Technology for Education and Research
in Naresuan University
Wiboon Wattanatorn, Thailand

G-10: Design and Implementation of an Integrated GIS Application for Transportation Network Modeling
Yong-Jin Joo, Korea

G-11: Experience of Russia and Kazakhstan on Remote Sensing for Decision Making Support
Vladimir Gershenzon, Russia

G-12: Adapting the LMF Temporal Splining Procedures from from Serial to MPI/ Linux Clusters
Yann Chemin, Bangladesh

G-15: Application of RS/ GIS for Monitoring Typhoon and Storm in Thailand
Ms.Siriluk Prukpitikul, Thailand

Room 4: Session F-3: Forest

Chairmen: Bernd Meissner

F-9: Using SPOT Satellite Image to Monitor the Forest Dynamics at Landscape Level on Nanjen Mountain Ecological Reserve in Taiwan
Yuh-Lurng Chung, China Taipei

F-10: Biomass Estimation of Japanese Forest Using ASTER Data
Takahiko Sigihra: Japan

F-11: Habitat Suitability Evaluation for Asian Elephant (Elephants maximus in the Bardia National Park, Nepal)
Tej B. Thapa, Nepal

F-12: Application of Remote Sensing and GIS for Sustainable Forest Management Capacity Building in Mongolia
Daniel Wyss, Germany

F-13: Monitoring Forest Landscape Using Photogrammetric Techniques and Landscape Models
Chih-Da Wu, China Taipei

12:30-13:30 Lunch

13:30-15:00

Poster Session P-2 (Please register at Poster Registration Desk in advance to get the place based on "First Come and First Choice")

- P-29:** Monitoring a Volcanic Plume at Miyake Island with Satellite Data
Naoya Osawa, Japan
- P-30:** GIS- based land Evaluation for Combining Economic Crops as a Model for Agricultural Landuse Planning
Mongkolsawat C., Thailand
- P-31:** Runoff Change with Urbanization in Tama New Town Watershed and its Fractal Geometry
Shun Yamakawa, Japan
- P-32:** Identification for the Undersea remains at Yonaguni Island with Satellite Data
Tatsuma Jahana, Japan
- P-33:** Fire Risk Assessment for Tiger Preybase in Chilla Range and Vicinity Rajaji National Park, India Using Remote Sensing and GIS
Yousif Ali Hussein, The Netherlands
- P-37:** OpenDragon Programmer's Toolkit: A Framework for Learning Geoinformatics Software Development
Goldin, Thailand
- P-38:** GIS- based land Evaluation For Combining Economic Crops as a Model for Landuse Planning
Monghkolsawat C., Thailand
- P-39:** High Resolution Data Fusion: Increasing Image Quality for detection and Identification of Different Objects
Mehdiyev Magsud, Thailand
- P-40:** Site Suitability Analysis for Industrial Area in Haridwar and Its Surroundings Using Remote Sensing and GIS
Patkorn Theopjorn, Thailand
- P-41:** An application of Direction Finding Antennas for Lightning Locating System
Raungyudh Raungsakul, Thailand
- P-42:** Using Remote Sensing and GIS Technology for Mapping the Tsunami Affected Areas in Southern Thailand
Suthep Chutiratanaphan, Thailand
- P-43:** NOAA- AVHRR and Terra/Aqua MODIS Data Receiving Systems in Asian Institute of Technology,
Vivarad Phonekeo, Thailand
- P-44:** Risk Management for Chemical Emergency System based on GIS and Decision Support System

W. Kanarkard, Thailand

- P-45:** Cancelled
- P-47:** Classification of Old-Growth Structure Characteristics Using Photogrammetry and Remote Sensing
Chi-Chuan Cheng, China Taipei
- P-48:** Using a GIS Road Network to Improve GPS Positions.
Chun-Jung Hsu, China Taipei
- P-49:** Foresty Monitoring with MODIS-derived Vegetation Indexes in Taiwan
D. Gerelmaa, China Taipei
- P-50:** Morphological Processing of Video for 3D Building Model Visualization
Fuan Tsai, China Taipei
- P-51:** Solving Photo Orientation by means of Control Entities
Nei-Hao Perng, China Taipei
- P-52:** Feature Extraction of LiDAR Point Cloud Sets and Accuracy Assessment
Shin-Hung Lin, China Taipei
- P-53:** Landslides Detection using Aerial Ortho-Image and LiDAR Data
Jiann-Yeou Rau, China Taipei
- P-54:** A Hierarchical Perspective towards the Management and Application of Metadata for Remote Sensing Images
Jung-Hong Hong, China Taipei
- P-55:** Single-Epoch Ambiguity Resolution for Airborne GPS Carrier-Phase Observations
Kang-Wen Chu, China Taipei
- Q-50:** Effect of Atmospheric Correction for Land Cover Classification Using Hyperspectral Data
Sun Hwa Kim, Korea
- Q-51:** Extracting Bare Ground Points Airborne LiDAR Data in Mountainous Forested Area
Jong Suk Yoon, Korea
- Q-52:** Estimation of Land Surface Temperature Using NOAA-A VHRR Thermal Infrared and Weather Station Data in the Mongolian Grassland
S. Tuya, Mongolia

- D-8:** Change Analysis of Waisanding Offshore Sandbar by LiDAR Dem
Wei-Chen Hsu, China Taipei
- N-5:** Ground Based All Sky Imager to Study Large-scale Wave Feature
P. K. Rajesh, J.Y.Liu, China Taipei
- Q-60** Mapping Peat Swamp Forest in Southeast Asia using MODIS Data
Wong Choong Min, Singapore
- D-5:** GIS for Coastal Zone Site Plan Scenario Development after Tsunami
Disaster in Meulaboh West Aceh
W. Wardhana, Indonesia
- Q-22:** A study on distribution tendencies of commercial clusters in urban
area by detailed time-series urban dataset
Tatsuro Osada, Japan
- Q-23:** A Method of Human Extraction in Crowded Scenes by using
Multipli Laser Range Scanners and CCD Camera
Hiroki Takahashi, Japan
- Q-24:** Crowds Flow Detection and Monitoring of Indoor Temperature
Distribution for Advanced Air Conditioning Control
Kyoichiro Kataira, Japan
- Q-25:** A study of Information Delivering Based on Context-awareness for
Migration Walking
Masaki Saito, Japan
- Q-26:** Daily Activities Support System based on User's Self-Information
Actionlog
Ta Duy Thang, Japan

15:00-15:30 Coffee/Tea Break

15:30- 17:30

Room 1: Session H-1: Mapping

Chairmen: B.Enkhtuvshin

- H-1:** Dense Digital Surface Model and TrueOrtho image allow
Supporting Versatile and Innovative Application
Myriam Chikhi, France
- H-2:** Extracting the Characteristic Information of Coast Environment
Using high resolution Satellite Images in West Sea Garolim Bay
Myung Hee Jo, Korea

- H-3:** A Comparison of Neural Network and Maximum likelihood for Landuse/ Landcover Mapping in Khon Kaen Province, Thailand
Suwanwerakamtorn R., Thailand
- H-4:** Application of ALOS PALSAR Data for Efficient Land Cover Mapping
D. Amarsaikhan, Mongolia
- H-5:** A study for Rapid Phase Ambiguity Resolution on Precise Kinematic GPS Positioning
Chi-Hsiu Hsieh, China Taipei

Room 2: Student Session/Education (invited Speech)

- SS-1:** Student Consortium of ISPRS; Representatives from Asia
- SS-2:** Prof. Kohei Cho, Tokai University, Japan: Role of E-Learnig
- SS-3:** Mr. Sjaak Beeren, ITC, The Netherlands: Capacity Building in Developing Countries
- SS-4:** Dr. Nguyen Dinh Duong, Institute of Geography, Vietnam: Free Software Development on Remote Sensing and GIS for Education
- SS-5:** Prof. Tuan-Chih Chen, China Institute Technology, China Taipei: ISPRS on Internet-Education, E-Learning and Distance Education

Room 3: Session I-3 Data Processing

Chairmen: R.Tsolmon

- I-10:** The Research of Knowledge Expression on Image Classification by using Rough Sets Theory and PCA
I. L. Shih, China Taipei
- Q-46:** Variational Method of speckle Reduction and Boundary Detection in SAR Imagery
Shen Chaomin, China
- I-12:** Automatic Bridges Extraction from Multi-sources Satellite Imagery Using Fusional Level set Model
Yun Yang, China
- I-13:** A Neural Network Selective Endmember for Pixel Unmixing
Wu Ke, China
- I-14:** Orienting FORMOSAT -2 Imagery by Control Entities
Yi-Chien Lin, China Taipei

Room 4: Session J-1: SAR

Chairmen: D.Amarsaikhan

- J-1:** Classification of Polarimetric SAR Data Using an Alpha-Entropy
David Bruce, Australia
- J-2:** Assessment of Single Date ENVISAT Alternating Polarization
ASAR Data for Rice Mapping
Tan Bingxiang, China
- J-3:** Initial-period Data Analysis of PALSAR
Tomonori Deguchi, Japan
- J-4:** On Detecting Edges in Polarimetric Synthetic Aperture Radar
Imagery
Ken Yoong Lee, Singapore
- J-5:** Polarization Signatures of Microwave Emission from Dry Snow
Alexandar A. Chukhlantsev, Russia

Day 4 : Oct. 12, 2006 (Thursday)

09:00-10:30

Room 1: Session T-1: Environment/Ecosystem

Chairmen: M.Badarch

- T-1:** The ecosystem research of Yingtai in Jilin Oil Field Based on
Remote Sensing Data
Shen Jinli, China
- T-2:** Analysis of the Geographical Process of Land Degradations in Plateau
Region with Time-series Satellite Images
Hiroyuki Miyazaki, Japan
- T-3:** Dust and Sand Storm Monitoring of Mongolia
L. Ochirkhuyag, Mongolia
- T-4:** The Heat Island Patterns over the western Taiwan Plain with
MODIS and Airborne IR Imager Data
T. H. Kuo, China Taipei
- T-5:** Application of Remote Sensing Quantitative Retrievals in the High
Performance GeoComputational Environment
Ying Luo, China

Room 2: Session H-2: Mapping

Chairmen: Gyunsung Lee

- H-6:** A test on the Determination of GCP and ICP for 1-m High Resolution Satellite Image
Su-Young Park, Korea
- H-7:** A Study of Cadastral Coordinate Transformation Using Artificial Neural Network
Lao-Sheng Lin, China Taipei
- H-8:** Applying DEM to Analyze Topographic Attributes on the Spatial Distribution of Vegetation
Li-Hsin Hsieh, China Taipei
- P-70:** Evaluation for the Velocity of Debris Flow through Image Processing Techniques
Hsiu-Yi Ko, China Taipei
- H-10:** Fusion of Shape and Spectral Features for the Classification of High Spatial Resolution Remotely Sensed imagery
Xin Huang, China

Room 3: Session J-2: SAR

Chairmen: Motoyuki Sato

- J-6:** Coherent Target Analysis for Detecting Long-Term Subsidence in Shanghai
Deren Li, China
- J-7:** Rainfed Rice Area Mapping and Backscatter Analysis Using Multi-temporal RADARSAT-1 Images in Pangasinan and Nueva Ecija Provinces of Philippines.
Mehdiyev Magsud, Thailand
- J-8:** Construction of A Mobile Platform for Microwave Remote Sensing Scatterometer System
Halim Aziz, Malaysia
- J-9:** Monitoring of Bar Transformation in the Han River Estuary Using RADARSAT/ SAR Images
Chan-Su Yang, Korea
- J-10:** Analysis on temporal changes of soil moisture with SAR iamges for agricultural drought monitoring in north-eastern part of Thailand
Junichi Susaki, Japan

Room 4: Session O-1 : Satellite System

Chairmen: Dr. Rainer Sandau, DLR German Aerospace Center

- O-1:** Report on RICESAT project
Guo Huadong, China
- O-2:** THEOS Data Processing and its Image Quality
Damrongrit Niammuad, Thailand
- O-3:** Development of National Geo- information Centre for Natural Resource Management in Mongolia.
D. Narantuya, Mongolia
- O-4:** FY-3 satellite and its applications in future
Liu Yujie, China
- O-5:** How to achieve cost –effective earth observation missions approaches for countries emerging in space technology
Rainer Sandau, Germany

10:30-11:00 Coffee/Tea Break

11:00-12:30

Room 1: Session L-1: Land Use/Land Cover

Chairmen: Ryutaro Tateishi

- L-1:** Classification Smoothing in Land Cover Mapping Using MODIS Data
Ngyuen Dinh Duong, Vietnam
- L-2:** The Study of using multi-scale spatial data in landslide monitoring and landuse classification interpretation
Yeh Mei Lin, China Taipei
- L-3:** Local Specific Characteristics of Land Use in Regions of Sudan Gezira Irrigation Scheme
Kiyoshi Torii, Japan
- L-4:** Platform for Visualization and Web-based Collaboration of Spatial Information
Shigeo Ogawa, Japan
- L-5:** A Study on Cadastral Coordinate Transformation Using Artificial Neural Network
Liu Jin-King, China Taipei

Room 2: Session M-1: Photogrammetry/Lidar

Chairmen: Taejung Kim

- M-1:** Digital OrthoPhoto Camera System
Cheng Xiangning, China
- M-2:** Objects Tracking and Positioning Using Multiple Active Video Cameras
Bing-Cyuan Lai, China Taipei
- M-3:** Automatic Reconstruction of 3D Road Models by Using 2D Road Maps and Airborne LiDAR Data
Chao-Yuan Lo, China Taipei
- M-4:** Using a Tree Dimensional Spatial Database to Orthorectify Automatically Remote Sensing Images
Myriam Chikhi, France
- M-5:** Planar Feature Extraction from LIDAR Data Based on Tensor Analysis
Chung-Cheng Lin, China Taipei

Room 3: Session T-2: Environment/Ecosystem

Chairmen: M. Badarch

- T-6:** The construction of spatial integrated data map for control the crop losses damaged by wild beasts
Kiyoyuki Yaota, Japan
- T-7:** Predicting Invasive Species Distributions at the Large-scale Using GIS and Remote Sensing
Hao Chen, China
- T-8:** Current Status of GOSAT Ground System Design and the Role of NIES
Hiroshi Watanabe: Japan
- T-9:** A Study of Developing GIS-based Water Quality Management System of Rural Area
Tao Song, Korea
- P-15:** The Environmental Database Issue in Mongolia
M. Bayasgalan, Mongolia

Room 4: Workshop W1: “Thematic Processing modeling and Analysis of Remotely Sensed Data”

Organized by ISPRS Technical Commission VII

Coordinator: Prof. John van Genderen

12:30-13:30 Lunch

13:30-15:00

Poster Session P-3 (Please register at Poster Registration Desk in advance to get the place based on “First Come and First Choice”)

- P-56:** Application on Terrestrial Laser Scanner and Plotless Sampling Techniques on Estimating the Total Basal Area of Forest Stands
Knag-Sheng Yeh, China Taipei
- P-57:** Terrain Change Detection Combined Photogrammetric DEM and Airborne LiDAR Data
Kuo-Hsin Hsiao, China Taipei
- P-58:** Using Segmentation Techniques and Fractal Theory to Extract Cloud Coverage for Fromosat-2 Quick-Look Images
Li-Yu Chang, China Taipei
- P-59:** Estimating Tree Height and Locations Using Airborne Lidar in Old Tree Area
Ta-Ko Chen, China Taipei
- P-61:** Applying SSM/I data in Estimating the Typhoon Precipitation via a Rotational TRaP Method
Yen-Ju Chen, China Taipei
- P-62:** Derivation and Analysis of annual LAI from MODIS
Yin-Chen Chen, Chian Taipei
- P-63:** Monitoring of Illegal Dumping Using Spatial Data Mining and Remote Sensing
Ching-Yueh Chang, China Taipei
- P-64:** Multi-Temporal Satellite Image Classification Using Spectral Class Database
Chi-Farm Chen, China Taipei
- P-65:** Forest Cover-type Classification Using SPOT4 and SPOT5 Images
Su-Fen Wang, Chian Taipei

- P-66:** Semi-Automatic Extraction of 3D Building Roofs from Airborne LiDAR Data
Shih-Hong Chio, China Taipei
- P-67:** A Split and Merge Techniques for Building Shaping
Tee-Ann Teo, China Taipei
- P-68:** Establish A 3D Model Using Laser Scanner at A Fixed Station
Wei-Kai Fang, China Taipei
- P-69:** Ground Based LiDAR Systematic Error Analysis and Calibration
Yi-Hsing Tseng, China Taipei
- P-71:** The Research of Checking Paddy Field Thematic map by Using Dempster-Shafer Theory
Y. R. Wang, China Taipei
- P-72:** Automatic Cloud Cover Information for Multi-Spectral Imager Assessment
Chih-Heng liu, China Taipei
- P-73:** Urban Expansion Simulation Based on Cellular automat - A Case Study on Nantun Region
Yao-Chih Hu, China Taipei
- P-74:** Estimating Vehicular Pollution Effects in Coimbatore using GIS Environment
K. Shanthi Viswanathan, India
- P-75:** Location Based Service in Geomatics
Tanvee Gupta, India
- P-76:** Application of GIS and Remote Sensing in the Analysis of the Environment of the Bay of Bengal Using Some Oceanic Parameter
Balkrishna Patidar, India
- P-77:** Relationship of Temperature and Vegetation Changes in Urban Area with Multitemporal Satellite Data
Ketut Wikantika, Indonesia
- P-79:** The Use of Remote Sensing and GIS Data to Enhanced the Information on Decision Processes for Defining the Typology of Forest Management Unit in Tropical Forest Certification Decision Process
W. Wardhana, Indonesia
- P-81:** 1. Interferometry for Coastal Spite Geomorphology Mapping
2. Canny and Velocity Bunching Algorithms for modelling Shoreline Changes Using Multisar Data
Maged Marghany, Malaysia

- P-82:** A Simple Spectral Index Using Reflectance of 735 nm in Mapping of Nitrogen Status of Rice Canopy,
Yuh-Jyuan Lee, China Taipei
- P-83:** Development of GT Simulator for Learning Spectra Measurement.
Atsushi Komaki, Kohei Cho, Kazuyuki Tomoshige, Haruhisa Shimoda, Japan
- Q-45:** The Point-Source Pollution Management based on GIS and DSS
Prof. Wiroj Taweepworadej, Thailand
- Q-48:** 3D Road Shape Production Techniques by Fusion of Laser Data and CCD Image
Sooahm Rhee, Korea
- Q-30:** Land-use/ Land-cover Classification Method Under Spatial Constraint
You Shu-cheng, China
- Q-31:** Monitoring Forest Biomass in Mongolia
Zagdaa Narangerel, Mongolia
- Q-32:** Application of remote sensing data in determining regional landslide hazard analysis by using logistic regression model and GIS
Jasmi Ab Talib, Malaysia
- Q-33:** Using SPOT Satellite Image to Monitor River Water Quality Pollution Index
Po Jen Lin, Min Luen Shih, Prof. Pao Shan Yu, Terng Jou Wan, Huei Ru Lin, Shih Peng Io, China Taipei
- Q-35:** IKONOS and SPOT-5 Application in Large Scale Mapping
Piyawan Jaruphummik, Ramphing Simking, Thailand
- Q-37:** The Study of Flood Risk Assessment on the Mae Klong River by Integrated Hydraulic model with Geographic Information System
Thudchai Sansena, Thailand
- Q-38:** Metadata Implementation for Thailand Spatial Data Infrastructure
Thitawadee Suvachananonda, Chaowalit Silapathong, Anusorn Kunarsa, Thailand
- Q-39:** Comparison of NDVI from Multi-dates SPOT and LANDSAT for Forest Monitoring
Amornchai Prakobya, Thailand
- Q-40:** Mangrove Changes after Tsunami in Thailand
Yoothapoom Potiracha, Thailand

Q-43: Study of Urban Evolution and Settlement Patterns of Pak Kret Municipality, Changwat Nonthaburi by Using Satellite Data
Chanika Sukawattanavijit, Thailand

Q-44: Leaf Area Index Estimation by Using Remote Sensing Technique in Khao Phra Wihan National Park
Apinan Kantirach, Thailand

15:00-15:30 Coffee/Tea Break

15:30-17:30

Room 1: Session M-2: Photogrammetry/Lidar

Chairmen: B.Enkhtuvshin

M-6: Development of Orientation and DEM/Orthoimage Generation Program for ALOS PRISM
Izumi Kmamiya, Japan

M-7: The Generation of True Orthoimages Using DEM, 3D Road models and Multi-View Aerial Images
Shin-Hui li, China Taipei

M-8: Characteristics of Intensity Signal from Airborne LiDAR Data
Jung Il Shin, Korea

Q-53: Automatic Building Height Extraction by Monoscopic Shadow Analysis
Ts. Javzandulam, Mongolia

M-10: A Wavelet Approach for Determining Surface Covered with AirborneLiDAR Points
Jaan-Rong Tsay, China Taipei

Room 2: Session N-1 Hydrology/Water

Chairmen: N.Erdenetuya

N-1: Remote Sensing and GIS Application for Water Reservoirs Conservation
Liu Yi-Hsuan, China Taipei

N-2: Ecosystem evaluation around Watarase retarding base - A Case Study of Subei Region, China
Hiroyuki Kobayashi, Japan

N-3: Soil Moisture Estimation Mongolia using ALOS PALSAR Data
Motoyuki Sato, Japan

N-4: Matrix Overlay for Drought Assessment in the Nam Choen
Watershed NE, Thailand
Suwanwerakamtorn R., Thailand

Room 3: Session O- 2 Satellite System

Chairmen: Wang Zhiyong

O- 6: Digital Asia Data Sharing in Asian Region
Pornthip Limiahapun, Thailand

O- 7: Topo Map Generation by ASTER data and its Accuracy Evaluation
Hiroshi Watanabe, Japan

O- 8: Retrieval and Utilization of Online Available Satellite Imagery
T. Bretschneider, Singapore

O-9: RazakSAT Images Receiving and Processing Station
Shamasul Azman Samsuddhin, Malaysia

O-10: Improve performance of Aqua MODIS band 6
Preesan Rakwatin, Japan

**Room 4: Workshop W2 “Improvements in referencing geospatial data:
Latest status”** Organized by MSPRS, Mongolia and NGA, USA

Coordinator: Dr. M. Saandar and Steve Kenyon

18:30-21:30

General Conference (2) at Ulaanbaatar Hotel, 6F Room 606/607 (only for
National Delegates)

Day 5: ct. 13, 2006 (Friday)

Room 1: 09:00- 10:30 Plenary Session: Demonstration of Virtual Reality, New Satellite Imagery, 3D Modeling etc.

- (a) Landscape modeling
- (b) 3D city modeling
- (c) Cultural Heritage modeling

9:00-10:30 Poster Session P4:

- Q-1:** An Application of Direction Finding Antennas for Lightning Locating System
Raungyudh Raungsakul and Yuttapong Rangsanseri, Thailand
- Q-2:** Application of Remote Sensing and GIS in Landslide Detection
Yung-An Yang, China Taipei
- Q-3:** Wavelet Networks for Hyperspectral Images Classification
Hsiu-Han Yang, China Taipei
- Q-4:** Building Extraction from LiDAR Data Using Wavelet Analysis
Cheng-Kai Wang, China Taipei
- Q-5:** Comparison of Projection Pursuit and Matching Pursuit in Feature Extraction of Hyperspectral Images
Pai-Hui Hsu, China Taipei
- Q-6:** Impact of Atmospheric Water Vapor Content on Land Surface Temperature Retrieving from NOAA/AVHRR Data
Shin Akatsuka, Japan
- Q-7:** A study on estimation of bio-physical parameters of individual tree stands derived from LIDAR data and digital matrix camera image
Tatsuya Nawamura, Japan
- Q-8:** Analysis of Forest Edges and Interiors Using Landsat TM data
Yusuke Kobayashi, Japan
- Q-10:** Damage Estimate of Waterworks Networks in the Earthquake
Miyuki Umezawa, Japan
- Q-11:** Use of GIS and Database Technologies for Knowledge Based Prediction of Geological Phenomena by Stochastic Method
M. Sieste, Germany
- Q-13:** Prediction of the Summer Convection with MODIS and NOAA

Satellite Data

Gin-Rong Liu, China-Taipei

Q-14: Using SPOT Satellite Image to Monitor River Water Quality Pollution Index

Po Jen Lin, China-Taipei

Q-15: Analyzing Spatial Pattern of Drought in the Northeast of Thailand using Multi-temporal of the Standardized Precipitation Index (SPI)
N. Wattanakij, Thailand

Q-16: Development of MODIS Fire Information System for Forest Fire Monitoring in southeast Asia

Vivarad Phonekeo, Thailand

Q-17: Analysis of the Spatial Continuity Vegetation-covered Areas on a Regional Scale

Kiichiro Kumagai, Japan

Q-18: A time series evaluation of ASTER surface emissivity products

Takashi Shinoda, Hideyuki Tonooka, Japan

Q-19: A study on impact of band-to-band misregistration on ASTER TIR products

Tomoharu Muneta, Japan

Q-21: A Comparative study on classification techniques to extract urbanization area using satellite images

Ayako Tanaka, Japan

Q-29: Application of Multi-temporal Satellite Data and GIS for the Environmental Change Detection

Ch. Bolorchuluun, Mongolia

10:30-11:00 Coffee/Tea Break

11:00-12:00 Closing Ceremony

Chaired by Mr. Manu Omakupt, Deputy General Secretary, AARS

Summary of the 27th ACRS: Dr. M. Saandar, Conference Chairman

JSPRS Award for Best Presentations and Best Posters

(to be presented by Prof. Shunji Murai, President, JSPRS)

Vote of Thanks

Closing Remarks

Welcome for the 28th ACRS in 2007 to be held in Kuala Lumpur, Malaysia

12.00-13.00 Lunch

ACRS Pre-conference Tutorials and Special-/Student Sessions

On the occasion of the 27th Asian Conference on Remote Sensing (ACRS) to be held in Ulaanbaatar, Mongol, 9-13th October, 2006, the following ACRS Pre-conference Tutorials and Special-/Student Sessions will be organized at the Mongolian University of Science and Technology (MUST), Ulaanbaatar, Mongolia between the 6th and 8th and on 11th October, 2006, jointly by the Asian Association on Remote Sensing (AARS), ISPRS Commission VI Special Interest Group on Technology Transfer Caravan, ISPRS Student Consortium, Asian Institute of Technology (AIT), Japan Aerospace Exploration Agency (JAXA), and local students. The Tutorials and Special-/Student Sessions are associated with the Student Summer School organized by the ISPRS Student Consortium.

The Tutorials and Special-/Student Sessions are open to Mongolian scientists/students as well as participants of the 27th ACRS. Those who intend to participate in the Tutorials are requested to register by e-mail to: cho@yoyogi.u-tokai.ac.jp (Prof. Kohei Cho). The registration is free of charge.

The Special-/Student Sessions are part of the ACRS main program.

Tutorials

Tutorial 1: Multi-spectral Classification with ALOS AVNIR2 / Terra ASTER Data

Maximum Number: 30 persons

Venue: Mongolian University of Science and Technology (MUST)

Date: 6th-8th October, 2006

Requirements: For Mongolian participants PCs are provided. Foreign participants are requested to bring their own PCs.

Program:

6th October: Friday

9:00-9:15 Opening

9:15-11:00 Introduction of ALOS Program: Prof. Haruhisa Shimoda (Tokai University, Japan), Mr. Haruchika Kamimura (JAXA, Japan)

11:00-12:00 Introduction of WinASEAN: Dr. Nguyen Dinh Duong (EISA, IG, Vietnam)

12:00-13:30 Lunch

13:30-17:00 Hands on Training; Multi-spectral Analysis with ALOS AVNIR2 / Terra

ASTER Data: Dr. Nguyen Dinh Duong

(Software and data are provided to each participant free of charge)

7th October: Saturday

9:00-16:30 Field Trip to Grass Land for Selection of Control Points for Satellite Image

Processing by GPS and Ground Truth for Land Cover Classification:

Prof. Kohei Cho (Tokai University, Japan),

Prof. A.Bayasgalan (MUST, Mongolia)

Remark: Any person who does not join the tutorials may participate in only the field trip. But the registration must be made in advance by e-mail to Prof. Kohei Cho (cho@yoyogi.u-tokai.ac.jp).

8th October: Sunday

9:00-12:00 Hands on Training (continued); Multi-spectral Analysis with ALOS

AVINIR2 / Terra ASTER Data: Dr. Nguyen Dinh Duong

12:00-13:30 Lunch

13:30-16:30 Assessment of Multi-spectral Classification

16:30-17:00 Closing

Tutorial 2: 3D Mapping with High Resolution Satellite Imagery (ALOS-PRISM)

Maximum Number: 75 persons

Venue: Mongolian University of Science and Technology (MUST)

Date: 8th October, 2006

Program:

8th October: Sunday

9:00-9:10 Opening

9:10-12:00 Class Room Lecture with Computer Demonstrations: 3D Mapping with ALOS PRISM Triplet Data: Prof. Armin Gruen (ETH Zurich, Switzerland)

12:00-13:30 Lunch

Tutorial 3: Web GIS Mapping

Maximum Number: 30 persons

Venue: NUM-ITC-UNESCO Remote Sensing/GIS Laboratory, National University of Mongolia

Date: 8th October, 2006

9:00-9:15 Opening

- 9:15-12:00 Hands on Training: Open Source Web GIS Mapping: Dr. Lal Samarakoon (Geoinformatics Center, Asian Institute of technology, Thailand)
- 12:00-13:30 Lunch
- 13:30-16:30 Continued
- 16:30-17:00 Closing

Special- and Student Sessions

During the 27th ACRS, a Special Session and a Student Session will be organized as follows.

- Special Session: Proposal / Thesis Writing (to be presented by ISPRS White Elephant Club)

Date: 11th October; time (afternoon) and room number will be given later.

1. Project Proposal Writing:
Emeritus Professor John Trinder (University of New South Wales, Australia)
2. Thesis Writing: Professor Armin Gruen (ETH Zurich, Switzerland)
3. Manual of Presentation:
Emeritus Professor Shunji Murai (University of Tokyo, Japan)

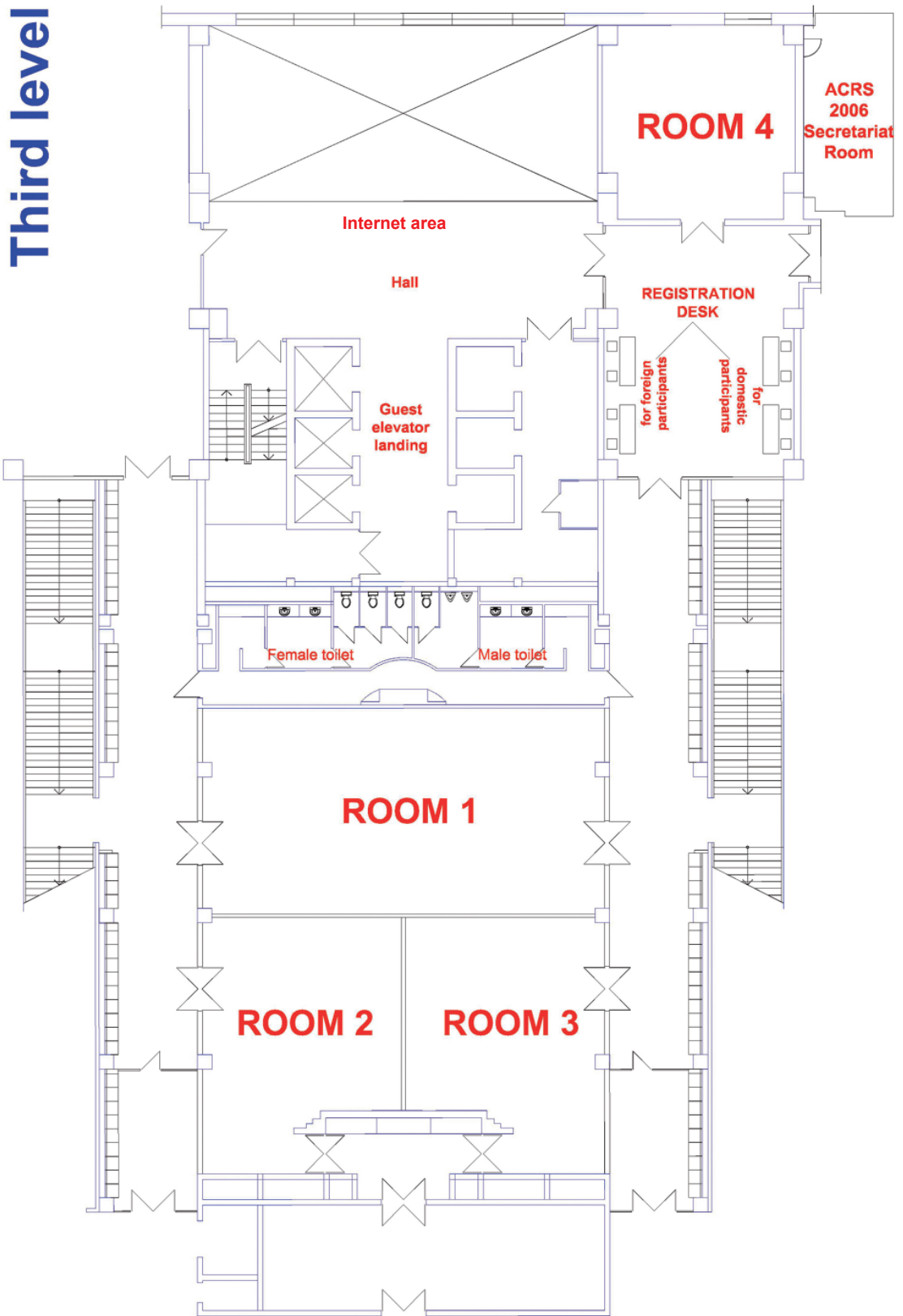
- Student Session:

Date: 11th October; time (afternoon) and room number will be given later.

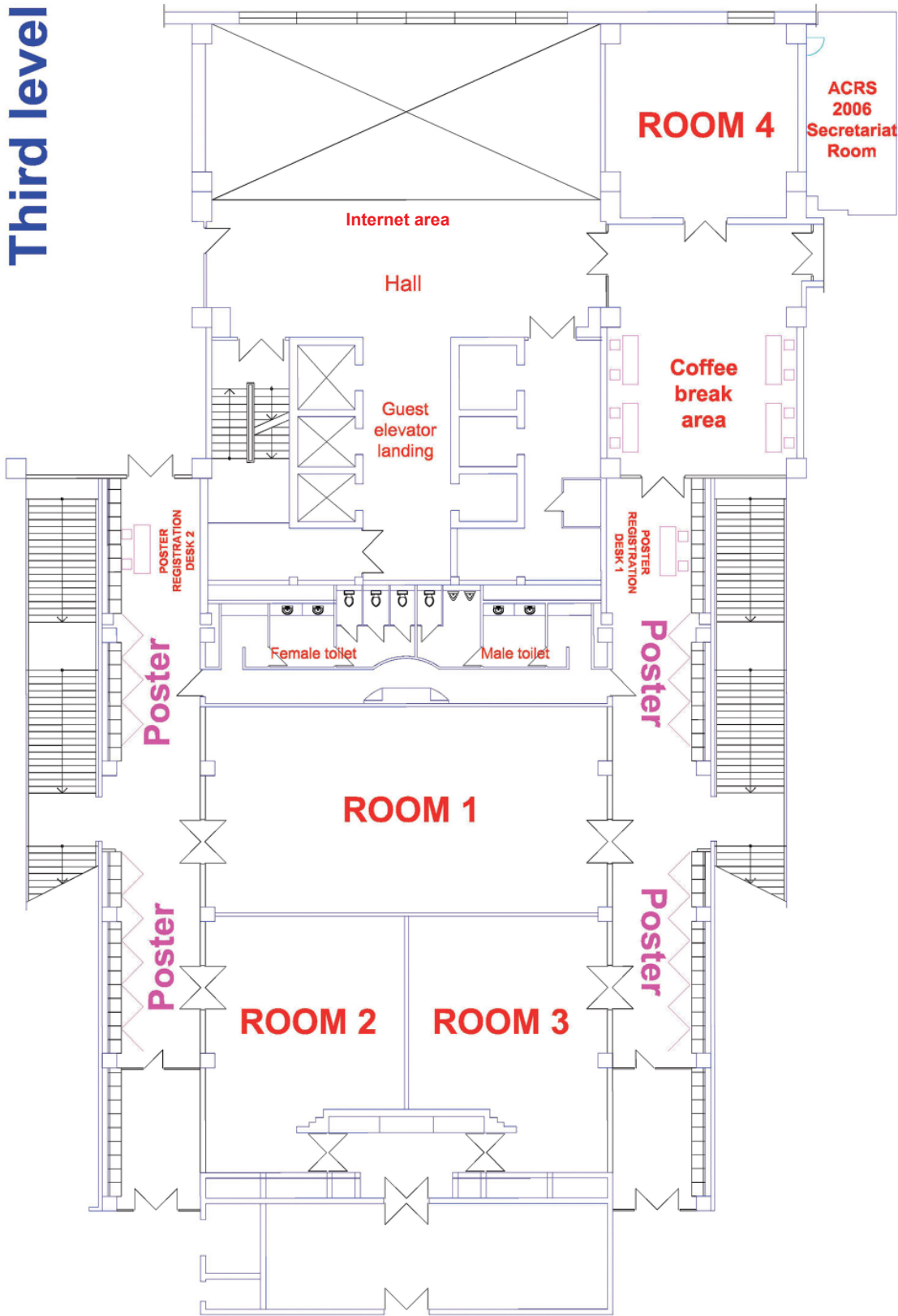
1. Student Consortium: Representatives from Asia
2. Role of e-learning: Prof. Kohei Cho (Tokai University, Japan and President of ISPRS Commission VI on Education and Outreach)
3. Capacity Building in Developing Countries:
Prof. Sjaak Beeren (ITC, The Netherlands)
4. Student Forum in Japan: Chair of Student Forum
5. Free Software Development on Remote Sensing for Education:
Dr. Nguyen Dinh Duong (EISA, IG, Vietnam)

After the student session, students, lecturers and White Elephant Club members are invited to a party sponsored by the White Elephant Club.

CONFERENCE ROOMS LOCATION MAP

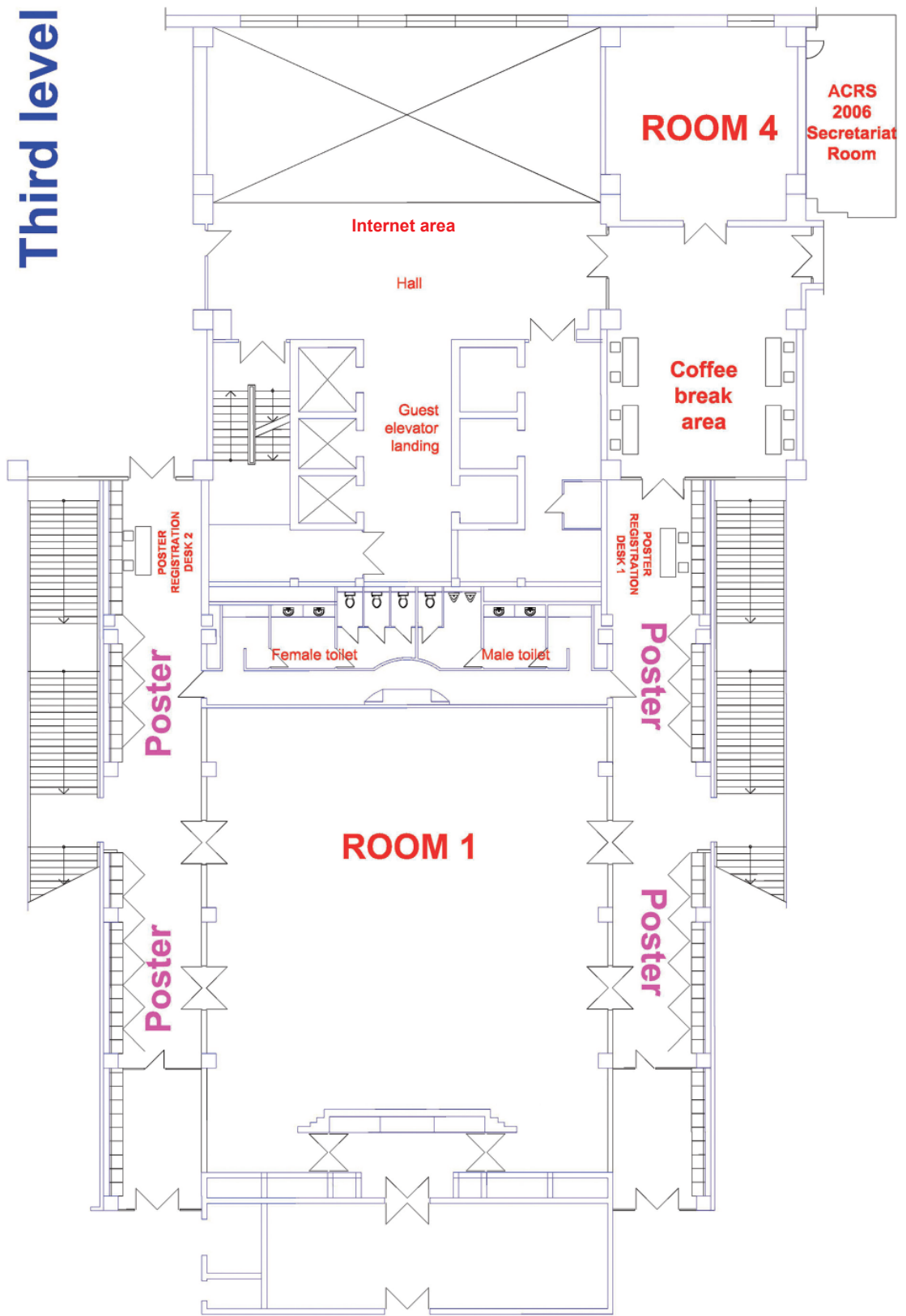


POSTERS (P1 P2 P3) PRESENTATION AREA MAP



Floor Plans

POSTER P4 PRESENTATION AREA MAP



Exhibition Schedule:

October 8-12, 2006, Ground Floor, Chinggis Khaan hotel

October 9, Monday

Morning (09.00-13.00) – Preparation

Afternoon (15.00-18.00) – Opening the exhibition at 15.00

October 10, Tuesday (10.00-18.00) – Exhibition

October 11, Wednesday (10.00-18.00) – Exhibition

October 12, Thursday

Morning (10.00-13.00) – Exhibition

Afternoon (14.00-18.00) – Closing and taking out the exhibition

List of Exhibitors:

1. CNCRS (Chinese National Committee for Remote Sensing, China)
2. INFORMATICS AND REMOTE SENSING INSTITUTE OF MAS (Mongolia)
3. MAP PRODUCT OF MONGOLIA LTD.
4. GEOSAN CO., LTD (Mongolia)
5. ERSDAC (Japan)
6. MONMAP (Mongolia)
7. UNIVERSITY OF AGRICULTURE (Mongolia)
8. GISTDA (Thailand)
9. SKY C& C (Mongolia)
10. JAXA (Japan)
11. RESTEC (Japan)
12. DIGITAL GLOBE (USA)
13. GAIA3D (South Korea)
14. GAZRIIN ZURAG CO., LTD (Mongolia)
15. ITT VISUAL INFORMATION SOLUTIONS (Japan)
16. MACRES (Malaysia)
17. ER MAPPER (Australia)
18. BEIJING SPOTIMAGE (France)
19. MONGOLIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY (MUST)

Exhibition

EXHIBITION BOOTH LOCATION MAP

