



## GIS-IDEAS Final Program

(Subject to some last minute changes. Participants will be promptly informed of any)

### 25th September, 2002

- 7:30-8:45 Registration**  
**8:45-10:00 Opening Session**  
**10:00:10:20 Coffee break**  
**10:20-12:00 Session I Remote Sensing and Environmental Monitoring**  
**Chair Isao SATO and Tran HUNG**
- S-1-1** Monitoring Urban Surface From Space: Case Study of Vietnam's Cities  
Hung TRAN 10:20-10:40
- S-1-2** Study on Urban Growth of Hanoi Using Multi-temporal And Multi-sensor Remote Sensing data  
Nguyen Dinh DUONG 10:40-11:00
- S-1-3** Satellite Imagery in the Study of Natural Resources and Environment of the Red River Delta, Vietnam  
Minh Dinh NGUYEN 11:00-11:20
- S-1-4** Fusion of High Resolution and Multi-source Satellite Images in the Study of Coastal Zone - Example in Hai Phong, Vietnam  
Phan Trong TRINH 11:20-11:40
- S-1-5** Country Report: Some Main Activities on Remote Sensing of Vietnam in Year 2002  
Tran Cong DUE 11:40-12:00
- 12:00-13:00 Lunch Break**  
**13:00-15:00 Session II Special Session on ASTER and Demonstrations of Data Products**  
**Chair Yasushi YAMAGUCHI and Nguyen Dinh DUONG**
- S-2-1** ASTER Project Overview  
Yasushi YAMAGUCHI 13:00-13:20
- S-2-2** Applications of Terra/ASTER Data to Natural Resource Exploration  
Yasushi ARAKAWA 13:20-13:40
- S-2-3** Utilization of ASTER Data for Wetland Mapping of Kushiro Mire and Iriomote Island, Japan  
Toshiya SONOBE 13:40:14:00
- S-2-4** Lessons Learned in Developing the US ASTER Science Data Processing System  
Gary N. GELLER 14:00:14:20
- 14:20-15:00 Overview of the PALSAR System, Current Status of the ASTER/PALSAR GDS and related activities of ERSDAC, Japan**  
ERADAC Team 14:20:15:00
- 15:00-15:15 Coffee Break**  
**15:15-17:35 Session III Remote Sensing and Natural Hazards**  
**Chair Koji WAKITA and Mai Trong NHUAN**
- S-3-1** Monitoring Coastal Erosion in Red River Delta, Vietnam - A Contribution from Remote Sensing Data  
Tran Van DIEN 15:15-15:35

- S-3-2** InSAR Application for Land Subsidence Monitoring  
Isao SATO 15:35-15:55
- S-3-3** GIS and Image Analysis to Study the Process of Late Holocene Sedimentary Evolution in Balat River Mouth  
Tran NGHI 15:55-16:15
- S-3-4** Optical Images, DEM and RADAR Interferometry for the Study of Dien Bien Active Fault  
Phan Trong TRINH 16:15-16:35
- S-3-5** Land use/Cover Mapping of Mountainous Area Using Knowledge Based Classification Approach: Case Study in Backan Province, Vietnam  
Nguyen Dinh DUONG 16:35-16:55
- S-3-6** Prognosis of Landslide in Lao Cai-Sapa region  
Dao Van THINH 16:55-17:15
- S-3-7** Digital terrain Modelling with GIS: Nature and Practical Applications in Earth Sciences  
Nguyen Van DAI 17:15-17:35
- 18:30-20:30 Welcome party**
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## 26<sup>th</sup> September, 2002

- 9:00-10:40 Session IV Socio-informatics and Landuse/Landcover mapping**  
**Chair Kiyoshi HONDA and Nguyen Huy PHON**
- S-4-1** Constructing a Demographic Database System for Analyzing the Japanese Religious Investigation Registers  
Hiroshi KAWAGUCHI 09:00-09:20
- S-4-2** Study on Food Production and Deforestation in the Mountainous Region of Northern Vietnam - A Cartographic Approach  
Vo Thanh SON 09:20-09:40
- S-4-3** Factors Impacting on Rural Livelihood in Northeast Thailand During the Period of Economic Growth  
Yoshikatsu NAGATA 09:40-10:00
- S-4-4** Land Use and Land Cover Change for South East Asia (A Case Study in Tamdao National Park)  
Do Xuan LAN 10:00-10:20
- S-4-5** Utilization of Land and Landuse Information System on Soils Derived from Weathered Basalt for Sustainable Agricultural Development in Central Highlands of Vietnam.  
Thanh Xuan NGUYEN 10:20-10:40
- 10:40-10:55 Coffee Break**
- 10:55-11:55 Session V Groundwater Modeling and Management**  
**Chair Shunichiro YOKOTA and Pham Quy NHAN**
- S-5-1** Evaluation of Ground Water Exploitation Reserves in Vinhyen Town by Numerical Modeling  
Pham Quy NHAN 10:55-11:15
- S-5-2** GIS and Groundwater Management in Germany  
Harro STOLPE 11:15-11:35
- S-5-3** Building a Model for the Groundwater Management in Red River Delta Plain by Using Visual MODFLOW  
Pham Quy NHAN 11:35-11:55
- 11:55-13:00 Lunch Break**
- 13:00-15:00 Session VI Flood, Erosion Modeling and Mitigation**  
**Chair Srikantha HERATH and Tran THUC**
- S-6-1** Use of spatial information in flood disaster mitigation - Case study of Phrae City of Yom river basin, Thailand

- Srikantha HERATH                      13:00-13:20
- S-6-2** Understanding Impact of Spatial data Resolution in Flood Risk Modeling in a River Basin:  
A Case study in Yom River Basin, Thailand
- Dushmanta DUTTA                      13:20-13:40
- S-6-3** Flood Warning and Evacuation System: An Integrated Approach to Disaster Mitigation in  
Bangladesh
- Nitin TRIPATHI                              13:40-14:00
- S-6-4** Natural Disaster Vulnerability Map on Internet - Geoinformatics in Natural Disaster  
Management
- Le The TRUNG                                14:00-14:20
- S-6-5** A process based approach to model soil erosion and sediment transport at regional scale
- M. HABIB-UR-REHAMAN 14:20-14:40
- S-6-6** Global Soil Lost Estimate Using RUSLE Model: The Use of Global Spatial Datasets on  
Large Scale Estimate of Erosive Parameters
- Nam Thai PHAM                              14:40-15:00
- 15:00-15:15 Coffee Break**
- 15:15-17:35 Session VII Spatial Data Management and Sharing**  
**Chair Mamoru SHIBAYAMA and Nguyen Dinh HOA**
- S-7-1** Dissemination of the spatial data using Internet
- Dang Van DUC                                15:15-15:35
- S-7-2** Research and Development of Database of Oil Exploration and Production
- Mizuhiko SYOJI                              15:35-15:55
- S-7-3** A Multi-Layer Algorithm for Discovering Clusters in Large Spatial Databases and its  
Application
- Quang LE SI                                    15:55-16:15
- S-7-4** Digital Geological Map Compilation Project in East and Southeast Asia
- Koji WAKITA                                    16:15-16:35
- S-7-5** Development of the Data-Sharing Mechanism for Geo-Spatial Information in Asia
- Kiyoshi HONDA                                16:35-16:55
- S-7-6** Challenges of Using Open Source GIS - Experiences of Thailand
- Phisan SANTATIMONT 16:55-17:15
- S-7-7** Implementing a Web-GIS for Collection and Dissemination of Spatial Information using  
Open Source Software
- Venkatesh RAGHAVAN 17:15-17:35
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## 27<sup>th</sup> September, 2002

- 9:00-11:20 Session VIII Spatial Modeling and Quantitative Analysis**  
**Chair Kiyoji SHIONO and Tran NGHI**
- S-8-1** Optimal Determination of Geologic Surfaces Based on Field Observation Including  
Equality-Inequality Constraints and Slope Information
- Kiyoji SHIONO                                09:00-09:20
- S-8-2** A New Model for Calculation of Fine-Grained Sediment Accumulation Rate in Rapid  
Accretion Zones
- Do Minh DUC                                    09:20-09:40
- S-8-3** New software package for Rittmann Norm Calculation
- Duong The HUNG                                09:40-10:00
- S-8-4** Modeling Uncertainty in Land-use Data in Vietnam Application
- Tran Nhu TRUNG                                10:00-10:20
- S-8-5** Role of Fractals in Scaling Spatio-temporal data
- Assela PATHIRANA                              10:20-10:40
- S-8-6** Applying Some Techniques of Image Processing for Automatic Map Data Entry

- Ngo TAO 10:40:11:00
- S-8-7** From Geographic Towards Geoscience Information Systems  
 Helmut SCHAEBEN 11:00:11:20
- 11:20-11:35 Coffee break**
- 11:35-12:35 Session IX Geoinformatics Education**  
**Chair Sohan WIJESEKERA and Dao Van THINH**
- S-9-1** A Graphic Science Education as a Public Lecture Making Use of Freeware, POV-Ray  
 Hirotaka SUZUKI 11:35-11:55
- S-9-2** Incorporating a Flood Modeling Field Application in a GIS Training Module  
 Sohan WIJESEKERA 11:55-12:15
- S-9-3** WinASEAN 4.0 - An Image Analysis Package for Environment Monitoring and Natural  
 Resource Management  
 Nguyen Dinh DUONG 12:15-12:35
- 12:35-13:20 Lunch break**
- 13:20-14:20 Session X Change Detection**  
**Chair Nitin TRIPATHI and Nguyen Truong XUAN**
- S-10-1** Determine change of Tien Giang and Hau Giang Rivers from 1978 to 2001 in area the Vinh  
 Long province in Vietnam  
 Nguyen Truong XUAN 13:20-13:40
- S-10-2** Geo-Environmental Research for Environmental changes of Can Gio mangrove forest,  
 Vietnam  
 Huynh Thi Minh HANG 13:40-14:00
- S-10-3**  
 Use of NOAA/AVHRR Data for Flood Disaster Monitoring in the Mekong River Delta  
 Hoang Minh HIEN 14:00-14:20
- 14:20-14:35 Coffee break**
- 14:35-15:00 Special presentation by Prof. Kiyoshi WADATSUMI, Founder President,  
 Japan Society of Geoinformatics**
- 15:00-15:20 Demonstration on LIDAR applications**  
 Rejean SIMARD, GPR Lasermap Inc. (Canada)
- 15:20-16:00 Introduction to Poster Presentations**  
**Chair Venkatesh RAGHAVAN and Hoang Minh HIEN**
- 16:00-17:00 Session XI (Poster)**
- P-1-1** Agricultural, Environmental, and Natural Resources Mapping and Decision Support  
 System (DSS) for Vietnam  
 Alan Cooper
- P-1-2** Design the GIS Database for Water Resources  
 Nguyen Dinh HOA
- P-1-3** Logical Model of Geological Structure Including Slump Block  
 Atsushi KAJIYAMA
- P-1-4** Investigation and Evaluation of Landslides in Mountainous Areas of Tra Bong and Ve  
 River Basins, Quang Ngai Province, Vietnam  
 Truong Xuan LUAN
- P-1-5** DEM generation Using JERS-1 SAR Interferometry for Kagoshima area, Kyushu, Japan  
 Alaa A MASOUD
- P-1-6** 3D Modeling and Visualization of Geologic Structure Using Open Source GRASS GIS  
 Shinji MASUMOTO
- P-1-7** Regularly depth distribution of Quaternary marine clay beds in the Osaka Plain  
 and the geologic structure mapping  
 Muneki MITAMURA
- P-1-8** Development of SISGeM - An Online System for 3D Geological Modeling-  
 Tatsuya NEMOTO
- P-1-9** Directions for Development of Geo-technical Information Technology of the Department

of Engineering Geology of Hanoi University of Mining and Geology

Nguyen Huy PHUONG

**P-1-10** Prediction of Land Subsidence in Thanh Tri Area, Hanoi due to Groundwater Exploitation

Nguyen Huy PHUONG

**P-1-11** Geoscience Informatics - A New Curriculum at Freiberg University of Mining and Technology

Helmut SCHAEBEN

**P-1-12** Integration of Remote Sensing and GIS for Prediction of Natural Hazards in Hoa Binh Province

Nguyen Ngoc THACH

**P-1-13** Seismo-tectonic Features of the Red river Fault Zone in North Vietnam

Tran Thi My THANH

**P-1-14** MODIS Data for Terrestrial Ecosystem Monitoring in Indochina Region:  
A Study With Temperature-Vegetation Dryness Index

Hung TRAN

**P-1-15** Integration of Geological Data Sets Using Information Technology, An Innovative Approach to improve the Quality of Geological Mapping and Interpretation: A Case if Application from Canada and Vietnam

Hai Thanh TRAN

**P-1-16** Designing and manufacturing PC-based ground station HRS-200

Bui Doan TRONG

**P-1-17** Research For the bases and method of creating GIS Geo-technical Data Bank of Hanoi

Pham Van TY

**P-1-18** An attempt to construct slope hazard map based on spatial data of past failures

Shuichiro YOKOTA

**P-1-19** Application of information technology for environmental evaluation of the Cau river basin based on Arial photo-interpretation

Nguyen Truong XUAN

**17:00-17:30** Closing Session

**18:00-20:30** Farwell party

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**28<sup>th</sup> September, 2002**

**8:30-16:30** Field Workshop along Red River (For interested participants)

**7:30-18:30** Visit to UNESCO World Heritage Site in Halong Bay (For interested participants)

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