

SCHEDULE FOR GIS-IDEAS 2014

Venue: University of Education - The University of Danang (DUEd)
459 Ton Duc Thang Street, Lien Chieu District, Danang City

6th December 2014: Training Session

Workshop 1 (*Meeting room - Building A5, 3rd Floor*)

09:00-17:00: Environmental Mapping Using Open Source GIS and Open Data

Lecturers: Venkatesh Raghavan, Go Yonezawa and Hirofumi Hayashi

Workshop 2 (*Seminar room 3.2 - Building A5, 3rd Floor*)

09:00-12:00: Introduction to Quantum GIS

Lecturers: Pham Thi Mai Thy and Tran Thi An

Workshop 3 (*Seminar room 208 - Building A5, 2nd Floor*)

14:00-17:00: WebGIS application development using MapMint

Lecturers: Venkatesh Raghavan, Daisuke Yoshida, P. Vinayaraj and Sittichai Choosumrong

Workshop 4 (*Seminar room 209 - Building A5, 2nd Floor*)

14:00-17:00: Hands-on intro to LiDAR processing with LAsTools

Lecturers: Martin Isenburg

(Details about training sessions at <http://gisws.media.osaka-cu.ac.jp/gisideas14/training.pdf>)

7th December 2014: 8:00-900 Registration

7th December 2014: 9:00-09:30 Opening Ceremony (*Meeting room - Building A, 3rd floor*)

Speakers: Master of Ceremony: *Prof. Nguyen Bao Hoang Thanh*, Rector of Danang University of Education, The Univ. of Danang.
Prof. Dr. Mamoru Shibayama, Chairperson, JVGC
Dr. Nghiem Vu Khai, Deputy Minister, MOST, S.R. Vietnam
Prof. Le Kim Hung, Rector of Danang University of Science and Technology, The Univ. of Danang.

Prof. Raghavan Venkatesh, Osaka City University

7th December 2014: 09:30-10:00 Coffee Break

7th December 2014: 10:30-12:30 Keynote Session (*Meeting room - Building A, 3rd floor*)

- 1) Prof. Nguyen Kim Loi: Online Support System for Flood Warning - Conceptual Framework and Proposed Research Techniques.
- 2) Prof. Muneki Mitamura: Implementing Disaster Knowledge to Community with Geoinformatics Tools (Osaka City University, Japan)
- 3) Prof. Nitin Kumar Tripathi: GIS for Disease Surveillance and Control. (Asian Institute of Technology, Thailand)

7th December 2014: 12:30-13:30 Lunch break

7th December 2014: 13:30-15:30 Session 1 (Meeting room, Building A5, 3rd Floor)

Chairpersons: 1. Dr. Ho Dinh Duan

2. Prof. Nitin Kumar Tripathi

- 1) Thanh Ngan Nguyen: Applying GIS and RS to Assess the Urbanization Process in Danang City from 1989 to 2014.
- 2) Nguyen Hieu Trung *et al.*: Application of GIS to Support Urban Water Management in Adapting to a Changing Climate: A Case Study in Can Tho City, Vietnam.
- 3) Tran Thi Van *et al.*: Evaluate Urban Thermal Environment by Remote Sensing Method to Provide Additional Solutions for the Urban Planning in Ho Chi Minh City.
- 4) Phan Thi Thanh Truc *et al.*: Optimal Selection of Number and Location of Meteo-Hydrological Monitoring Networks on Vu Gia - Thu Bon River Basin Using GIS.
- 5) Van Anh Tran *et al.*: Application of Multi-Criteria Analysis (MCA) and Remote Sensing in Support of Roads Creation.
- 6) L.T. Phuong *et al.*: Rice Crop Yield Estimation Using MODIS and ENVISAT ASAR Data in the Mekong Delta, Vietnam.

7th December 2014: 15:30 -15:45 Coffee Break

7th December 2014: 15:45-17:45 Session 2A (*Meeting room, Building A, 3rd Floor*)

Chairpersons: 1. Dr. Dinh Quang Duong

2. Prof. Muneki Mitamura

- 1) Muneki Mitamura *et al.*: Geological and Geomorphological Features on Groundwater Situation of Large Scale Landslides Induced by Typhoon 1112 (Talas) in Nara Prefecture, Japan.

- 2) Le Van Trung *et al.*: Application of GIS and Remote Sensing for Assessing the Impact of Sea Level Rise in Ben Tre Province.
- 3) An Tran Thi *et al.*: Characterizing topographic features and flood inundation mapping for an alluvial low land area in Danang city, Vietnam.
- 4) Martin Isenburg: Experiences with LiDAR Ground Penetration in Dense Tropical Rainforests

7th December 2014: 15:45-17:45 Session 2B (*Meeting room, Building A5, 3rd Floor*)

Chairpersons: 1. Dr. Le Hoang Son

2. Prof. Venkatesh Raghavan

- 1) Minh Truong Phuoc *et al.*: Researching on the Effects of Land Use Changes Towards the Surface Temperature Change in Danang City.
- 2) Linh Nguyen Hoang Khanh *et al.*: Building Lookup Land Price Map by Quantum GIS (QGIS): An Application of Open Source Desktop GIS in Land Management.
- 3) Truong Xuan Luan *et al.*: An Integrated Application of Remote Sensing and GIS for Study Changes of Land Use in Diem Ho and Tra Ly Estuary Area, Thai Binh Province, Vietnam.
- 4) Quyen Nguyen Thi Ngoc *et al.*: Effect of Land Use Change on Water Discharge in Srepok Watershed, Central Highland Viet Nam.
- 5) Pham Bach Viet: Remote sensing approach for identifying landscape use change in Mekong delta, Vietnam.
- 6) Nguyen Dinh Hoa *et al.*: Weather Nowcasting from Satellite Image Sequences Using Picture Fuzzy Clustering and Spatial-temporal Regression.

7th December 2014: 18:30~ Welcome Reception at Golden Castle, 280 Dong Da St, Danang City

8th December 2014: 09:00-11:00 Session 3A (*Meeting room, Building A, 3rd Floor*)

Chairpersons: 1. Dr. Le Trung Chon

2. Dr. Daisuke Yoshida

- 1) Sittichai Choosumrong: Development of A Web-GIS Application Based on Mobile Interface for Multi-Purpose Application Fields Using FOSS4G.
- 2) Kampanart Piyathamrongcha: Web and Mobile Mapping Application for Flood Information Service: A Case Study in Thailand.
- 3) Vu Trinh Dinh *et al.*: A Solution for Data Transmission via Internet to Measure RTK.
- 4) Canh Khuu Minh *et al.*: Propose the 3D and Temporal GIS for Detecting Moving Objects with Raspberry Pi moving Client Base in Urban.

Study Case in Ho Chi Minh City, Vietnam.

8th December 2014: 09:00-11:00 Session 3B (*Meeting room, Building A5, 3rd Floor*)

Chairpersons: 1. Dr. Hieu Trung Nguyen

2. Dr. Susumu Nonogaki

- 1) Yoshikatsu Nagata: Distribution and Accuracy of Place Names in Indochina Peninsula Listed in a Japanese Gazetteer during World War II.
- 2) Go YONEZAWA *et al.*: Development of 3D Geological Modeling System for Hanoi City Using Borehole Data.
- 3) Phuong Truong: Uncertainty Analysis for Geospatial Modeling in Environmental Research with a Case Study of Predicting Emission of Air Pollutant from Natural Soil.
- 4) Quoc Thanh Vo *et al.*: A Bias-correction Method of Precipitation Data Generated by Regional Climate Model.

8th December 2014: 11:00 - 11: 15 Coffee Break

8th December 2014: 11:15 -12:30 Poster Session (*Meeting room - Building A5, 4th Floor*)

Chairpersons: 1. Dr. Quoc Phi Nguyen

- 1) Quoc Dung Dang: Application of GIS in Estimating Seasonal Water Quality in Downstream of Dong Nai River System.
- 2) Quoc Phi Nguyen: Rock Slope Stability Analysis Using Block Theory and Probabilistic Approach: An Application at National Road No.6.
- 3) Quoc Phi Nguyen: GIS and RS Geo-hazard Assessment and Environmental Impact Evaluation of Mining Activities at Quy Hop, Nghe An, Vietnam.
- 4) N. Phuong Truong: Evaluating Accessibility of Shrimp Species to Mangrove Forest Using GIS and Remote Sensing.
- 5) Tuan Dung Tran *et al.*: Assessment of Sub-marine Landslide Potential on the Continental Shelf in the South Center of Vietnam.
- 6) Susumu Nonogaki *et al.*: Development of Browsing System for Two- and Three-Dimensional Geological Data.
- 7) Tatsuya Nemoto *et al.*: Detection of Topographic Change Using Aerial Photographs in Hilly Area of Osaka Prefecture, Japan.
- 8) Shinji Masumoto *et al.*: An Investigation on Evaluation Method for Reliability of Three Dimensional Subsurface Geological Model.
- 9) Thanh Nga Nguyen *et al.*: Creating Geo-database for Water Pollution Warning by Remote Sensing and GIS Technology for the Northern Key Economic Region.

- 10) Linh Vo Thi Phuong *et al.*: Application of Geographic Information System on Hazardous Waste Management: A Case Study of Ninh Kieu District, Can Tho city.
- 11) Nguyen Thi Thu Thao *et al.*: Water Resources Database Development for Sharing and Optimizing Available Resources.
- 12) Nguyen Hieu Trung *et al.*: An Interactive Approach to Support Natural Resources Use Policy: A Case Study in the Vietnamese Mekong Delta Coastal Areas.
- 13) Tran Thi Van *et al.*: Monitoring Change of Surface Topography Caused by Urbanization from Integration of Remote Sensing and GIS Technology.
- 14) Bui Quang Thanh *et al.*: Web-based Participatory Information System for Vulnerability Mapping in Central Provinces of Viet Nam.
- 15) Pham Thi Phuong Thao *et al.*: Monitoring Shoreline Change at Go Gia River.
- 16) Chuong Huynh Van *et al.*: Application of GIS in Establishing 3D Modeling for Spatial Urban Management at Thuan Thanh Ward, Hue city, Vietnam.
- 17) Tran Ha Phuong: Designing Basic Features in GIS Using Open Source Library.
- 18) Bien Le Van *et al.*: An Open Source GIS Approach for Soil Erosion Modeling in Danang city, Vietnam.
- 19) Hoai Dao Khanh: Combination of Remote Sensing and GIS Techniques for Evaluating Distribution of Clay and Hydrothermal Minerals in Vegetation Developing Regions.
- 20) Nhu Hung Nguyen *et al.*: Estimation of PM10 from AOT of satellite Landsat Image over Hanoi city.
- 21) Eugenio Realini *et al.*: GNSS Raw Data Logging Application Using Open Source Positioning Engine goGPS.
- 22) Van Phuc Doan *et al.*: Retrospective Assessment of Zoobenthos - Van Phong Bay, Khanh Hoa Province as a Case Study.
- 23) Bui Ta Long *et al.*: Building Information System Serving Adaption, Mitigation and Impact Assessment for Climate Change for National Level.
- 24) Bui Ta Long *et al.*: Assessment of Climate Change Trends at Long Xuyen Quadrangle Using Remote Sensing Image.
- 25) Truong Thanh Phi *et al.*: Delineation of Structural Domains for Analyzing Slope Failure by Using Fracture Orientations.
- 26) Pham Bach Viet *et al.*: Assessing Performance of Using Landsat 7 ETM+ in SLC-off Mode for Land Cover Classification.
- 27) Nguyen Thi Dieu *et al.*: An Integration of GIS and AHP Techniques for Land Use Suitability Analysis in Hoa Vang district, Danang city, Vietnam.
- 28) Truong Xuan Luan *et al.*: An Integrated Application of Remote Sensing and GIS for Study Changes of Land Use in Diem Ho and Tra Ly Estuary Areas, Thai Binh province, Vietnam.

- 29) Nguyen Thi Tinh Au *et al.*: Impact of Climate Change on Water Flow of Dak B'La River Basin, Vietnam.
- 30) Le Ngoc Hanh *et al.*: Landslide Hazard and Risk Zoning in Hoa Vang district, Danang city.
- 31) Binh Minh Hoang *et al.*: Application of GIS AND Remote Sensing to Evaluate the Urban Landuse Changes During 1975 - 2014 in Huong Thuy County Town, Thua Thien Hue Province, Vietnam

8th December 2014: 12:30- 13: 30 Lunch Break

8th December 2014: 13:30-15:30 Session 4A (*Meeting room, Building A, 3rd Floor*)

Chairpersons: 1. Dr. Truong Phuoc Minh
2. Dr. Pham Thi Mai Thy

- 1) Tuong Tran *et al.*: Effects of Net Daily Radiation Model Extracted from Modis on Calculation of reference Evapotranspiration.
- 2) Truong Vu Van: Building a Fast Solution for Processing Aerial Image Data Taken from Small Unmanned Aerial Vehicle (small UAVs) in Disaster or Emergency Situations.
- 3) Dinh Quang Duong *et al.*: Standardized Geodata Management in Vietnam – An Urgent Need.
- 4) Huong Viet: Approaching the Crowdsourc with AcrGIS Online for Management Ponds and Moat Systems in the Imperial Citadel of Hue, Central of Viet Nam.

8th December 2014: 13:30-15:30 Session 4B (*Meeting room, Building A5, 3rd Floor*)

Chairpersons: 1. Prof. Bui Ta Long
2. Prof. Harue Masuda

- 1) Sasirin Srisomkiew *et al.*: Soil Degradation Assessment Using FAO Guideline and Geographic Information System in Kaset Wisai District of Roi Et Province in Thailand.
- 2) Harue Masuda: As and Pb transportation process in the Red River of Vietnam.
- 3) Chuong Huynh Van *et al.*: Application of SWAT Model for Assessing Water Quality in Ta Trach Watershed, Central Vietnam..
- 4) Anujit Vansarochana: Mapping Water Purification Scenarios of Dawei - Kanchanaburi Superhighway Area with InVest Toolset.

8th December 2014: 15:30 - 15:45 Coffee Break

8th December 2014: 15:45-16:30 Session 5 (*Meeting room, Building A, 3rd Floor*)

Chairpersons: 1. Dr. Nguyen Hieu Trung

2. Dr. Go Yonezawa

- 1) Phan Minh Thu *et al.*: Initial TSM estimation with hyper-spectral images in coastal waters based on bio-optic approach .
- 2) Poliyapram Vinayaraj *et al.*: Investigating an Algorithm to Estimate Shallow Water Bathymetry from Multi-temporal Landsat 8 Satellite Imageries.

8th December 2014: 17:00:17:30 Wrap-up and Closing (*Meeting room, Building A, 3rd Floor*)

9th December 2014: Field Visit: Da Nang - Hoi An - Son Tra Peninsula - Linh Ung Pogoda

(http://gisws.media.osaka-cu.ac.jp/gisideas14/field_visit.pdf)