GIS-IDEAS 2014 Training Workshop Program for 6th December 2014

As a part of GIS-IDEAS 2014, the following training workshops are scheduled to be conducted at lecture halls at the conference venue shown below. Upon successful completion of the Workshop, the participants will be awarded certificates awarded by the Japan-Vietnam Geoinformatics Consortium.

Venue: University of Education - The University of Danang (DUEd)
459 Ton Duc Thang Street, Lien Chieu District
Danang City, Vietnam
Fee: 300,000 VND (15USD)/workshop
500,000VND (25USD)/2 workshops
(*Fee can be paid at the Registration Desk in US dollars or equivalent amount in Vietnamese Dong at 8:00-9:00 6th December 2014*)

Participants wishing to attend the training should register in advance by sending by e-mail to the GIS-IDEAS Secretariat at **gisideas.secretary@gmail.com**. Please indicate "Registration for GIS-IDEAS 2014 Training Workshop" in the subject of your e-mail and include following details

- Name and Affiliation (Name of Institution/Company and Position)
- Name of Training workshop you wish to register

Training will be on first-come -first-serve basis and registration will close on 1st December 2014 (Monday). All workshops will be conducted in English with some instructions in Vietnamese when necessary.

Workshop 1: *Environmental Mapping Using Open Source GIS and Open Data*
Date: 6/12/2014, 9:00-17:00

Open Source GRASS GIS is an effective tool for analyzing Remote Sensing Data to enrich and updating global data pertaining to Environmental change. This training workshop is a part of the capacity building initiative under the research project funded by MEXT, Japan. This workshop will provide training on analysis of low and medium resolution Remote Sensing data (MODIS and Landsat) using GRASS GIS and field data collection tool (Geopaparazzi). The participants will be taught about ways to access free data, import data, perform analysis and export data in commonly used GIS formats. Further, techniques for mapping environmental parameters such as vegetation, land cover etc. will also be demonstrated. The participants will be provided with all software and test data for self-practice sessions after completion of the course. The participants will gain knowledge to access various kind of free satellite data and extract environmental information for their own areas of interest and specialization.

Lecturers: Venkatesh Raghavan, Go Yonezawa and Hirofumi Hayashi
Participants: Maximum 30

Workshop 2: *Introduction to Quantum GIS*
Date: 6/12/2014, 9:00-12:00

Quantum GIS (QGIS) is an open-source desktop GIS tool that helps you manage, edit, visualize, analyze, and compose maps with geographic data. The workshop will provide introduction to QGIS features and functions. Participants will also be provided with a full working version of the latest QGIS release (qgis.osgeo.org) and hand-on exposure for installing/using QGIS on MS-Windows Operating system.

Lecturers: Pham Thi Mai Thi and Tran Thi An
Participants: Maximum 30

Workshop 3: *WebGIS application development using MapMint*
Date: 6/12/2014: 14:00-17:00

MapMint is an OpenSource platform 100% based on OGC Web Services. MapMint incorporates the power, of available OSGeo tools available such as MapServer, Proj4 and GDAL/OGR and provides a fully functional WebGIS Management Tool for Spatial Data Infrastructure. Attendees will go through the whole WebGIS application development process and gain knowhow to develop and deploy WebGIS application. Participants will also be provided with a full working version of the latest Ubuntu Linux based MapMint (mapmint.com) Virtual Machine.

Lecturers: Venkatesh Raghavan, Daisuke Yoshida, P. Vinayaraj and Sittichai Choosumrong
Participants: Maximum 30

Workshop 4: *Hands-on intro to LiDAR processing with LAStools*
Date: 6/12/2014: 14:00-17:00

Dr. Isenburg will start with short and lively introduction talk on LiDAR processing with examples of different projects such as the Canary Islands (Spain) where the vegetation-penetrating lasers uncovered elevation differences of up to 25 meters between the official government maps and reality, flood mapping in the Philippines, archaeological finds in Polish forests, and mapping biomass in Thailand. This is followed by a hands-on workshop during which attendees will perform the core steps of a LiDAR processing workflow on their own Windows laptops using the software and data provided. This workshop will touch upon parts of (1) LiDAR quality checking, (2) LiDAR preparation (tiling, classifying, cleaning), and (3) LiDAR derivative creation (DTM/DSM/contour/slopemaps/CHM/...).

Lecturers: Martin Isenburg
Participants: Maximum 30