

2nd CALL FOR PAPERS

Researchers are invited to submit full papers describing original and unpublished research. All manuscripts will be subject to the triple blind peer review process. Accepted full papers will be published within the Springer Lecture Notes in Geoinformation and Cartography (LNG&C) series.

The topics of the workshop cover major geoinformation science including (but are not limited to):

- **Geomatic** - GPS, GNSS, Engineering Survey, Industrial Survey, Deformation Survey, Modern Cadastre (including Marine, 3D Cadastre)
- **GIS** - 3D GIS, 3D City Modeling, 3D Generalization, 3D Geo visualization, Spatial Data Infrastructure (SDI), Open Source, Web GIS, Participatory GIS, Sensor Network, Disaster Management, Dynamic GIS, Decision Support System
- **Remote Sensing** - Oceanography, Meteorology RS, RADAR, Hyperspectral RS, Pattern and Image Processing
- **Photogrammetry** - Terrestrial laser scanning, Airborne laser scanning, Close-range, Unmanned Aerial Vehicle (UAV), Sensor Calibration and Integration, Sensor Modelling, Texture Mapping, Mobile Mapping

Important dates (new):

- Full paper submission (max. 6000 words): July 30, 2012
- Notification of acceptance: August 30, 2012
- Camera ready submission: September 24, 2012
- Workshop: November 7-8, 2012

Venue:

Faculty of Geoinformation and Real Estate

Universiti Teknologi Malaysia

81310 UTM Skudai, Johor, Malaysia

More information can be found on the workshop webpage: www.voronoi.com/geoadvances2012/

Organizer: Prof. Alias Abdul Rahman

Contact: geoadvances2012@utm.my

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Programme

International Workshop on Geoinformation Advances UTM, Johor, Malaysia, 7–8 November 2012

Day 1	
08:00 – 09:00	Registration
09:00 – 09:10	Opening ceremony
09:10 – 10:30	<i>Keynote presentations</i>
Chairman: Alias Abdul Rahman	<p>François Anton <i>Hybrid Scientific Computing Using Interval Analysis, Homotopy and Algebraic Geometry for Photogrammetry, GPS and GIS</i></p> <p>Thomas Kolbe, Tatjana Kutzner <i>Latest Development in 3D City Modelling and CityGML</i></p>
10:30 – 11:00	Coffee break
11:00 – 13:00	<p>Medial Axis Approximation of River Networks for Catchment Area Delineation, Farid Karimipour, Mehran Ghandehari and Hugo Ledoux</p> <p>The use of Digital Elevation Models for Watershed and Flood Hazard Mapping, Eric Forkuo and Vincent Tsawo</p> <p>Surface Reconstruction from Noisy Sample Points by Using Voronoi/Delaunay Based Algorithm, Tang Wei Lun, Halim Bin Setan and Zulkepli Majid</p> <p>A Methodology for Processing Raw LIDAR Data to Support Urban Flood Modelling Frameworks, Ahmad Fikri Abdullah, Zoran Vojinovic and Alias Abdul Rahman</p> <p>Reliability of a High Accuracy Image-based System for 3D Modelling of the Medial Longitudinal Arch During Gait, Duaa Alshadli, Albert K. Chong, Kevin McDougall, Jasim Al-Baghdadi, Peter Milburn and Richard Newsham-West</p> <p>Evaluating the Feasibility of Data Collection via GPS-Enabled Mobile Phones for Passive Household Travel Survey, Feng Mao and Minhe Ji</p>
13:00 – 14:30	Lunch break
14:30 – 16:30	<p>CityGML for Architectural Heritage, Erik Costamagna and Antonia Spanò</p> <p>Requirements For a Unified 3D Spatial Data Model, Edward Duncan and Alias Abdul Rahman</p> <p>New Data Model for 3D Geoinformation in the Information Society, Wan Wen, Erik Kjems and Lars Bodum</p> <p>Automatic Generation of 3D Indoor Models: Current State of the Art and New Approaches, Suhaibah Azri, Umit Isikdag and Alias Abdul Rahman</p> <p>Utilizing 3D Segmentation in Detecting Changes on 3D City Model Objects, Khairul Hafiz Sharkawi and Alias Abdul-Rahman</p> <p>Representing the Dual of Objects in a Four-Dimensional GIS, Ken Arroyo Otori, Pawel Boguslawski and Hugo Ledoux</p>
16:30 – 17:00	Coffee break
17:00 – 18:40	<p>Towards Enhancing Geometry Textures of 3D City Elements, Behnam Alizadehashrafi and Alias Abdul Rahman</p> <p>Towards Efficient Putrajaya 3D SDI Using Schema-aware Compressor for CityGML, Chengxi Bernad Siew and Alias Abdul Rahman</p> <p>Examination of Compatibility Between the Croatian Land Administration System and LADM, Nikola Vučić, Miodrag Roić and Zdravko Kapović</p> <p>Resolution Effects on Land-Cover Classification Using Varied Satellite Data, Yi Zhao and Keitarou Hara</p> <p>The Application of InSAR Signature Time Series for Landcover Classification, Hye Won Yun, Jung Rack Kim, Yun Soo Choi and Ha Su Yoon</p>
18:40	Dinner

Day 2	
08:00 – 09:00	Registration
09:00 – 10:30 Keynotes Chairman: Alias Abdul Rahman	<p style="text-align: center;"><i>Keynote presentations</i></p> <p>Christopher Gold <i>From Boats to Buildings: Why Topology Matters</i></p> <p>Gurcan Buyuksalih <i>Developing Istanbul 3D City Model from Point Cloud</i></p>
10:30 – 11:00	Coffee break
11:00 – 13:00 Chairman: Lars Bodum	<p>Calibration and Accuracy Assessment of Leica ScanStation C10 Terrestrial Laser Scanner, Mohd Azwan Abbas, Halim Setan, Zulkepli Majid, Albert K. Chong, Khairulnizam M. Idris and Anuar Aspuri</p> <p>Unmanned Aerial Vehicle Photogrammetric Results Using Different Real Time Kinematic Global Positioning System Approaches, Khairul Nizam Tahar, Anuar Ahmad, Wan Abdul Aziz Wan Mohd Akib and Wan Mohd Naim Wan Mohd</p> <p>Methods for Georeferencing Point Cloud of Building from Static TLS – a Review, Rizka Akmalia, Halim Setan, Zulkepli Majid and Deni Suwardhi</p> <p>WorldView-2 Satellite Imagery and Airborne LiDAR Data for Object-Based Forest Species Classification in a Cool Temperate Rainforest Environment, Zhenyu Zhang and Xiaoye Liu</p> <p>Potential of Multiscale Texture Polarization Ratio of C-band SAR for Forest Biomass Estimation, Md. Latifur Sarker, Janet Nichol and Ahmad Mubin</p> <p>GIS Application and Geodatabase for Archaeological Site Documentation System: Bujang Valley, Malaysia, Erna Warnita Bachad, Zulkepli Majid, Halim Setan, Albert K Chong and Nurul Shahida Sulaiman</p>
13:00 – 14:30	Lunch break
14:30 – 16:10 Chairman: Gurcan Buyuksalih	<p>Road Accident Mapping using a Digital Compact Camera and the Data Management System, Nurkhaliesa Balqis Hamzah, Halim Setan and Zulkepli Majid</p> <p>Coordinate Monitoring of ISKANDARnet Using Bernese and ConDAS, Mc Lim, Halim Setan and Rusli Othman</p> <p>Low-Cost Compact High-Speed Camera for Human Motion Study, Albert Chong and Zulkepli Majid</p> <p>An investigation of the 3-Dimensional Surface Capture Techniques of the Human Foot, Jasim Ahmed Al-Baghdadi, Albert K. Chong, Kevin McDougall and Duaa Alshadli Alshadli</p> <p>A Review and Conceptual Framework for Generalization of 2D Maps, Siddique Ullah Baig and Alias Abdul Rahman</p>
16:10 – 16:30	Closing ceremony
16:30	Coffee

Presentation Room: Building C04, 1st floor, Lecture Room 6

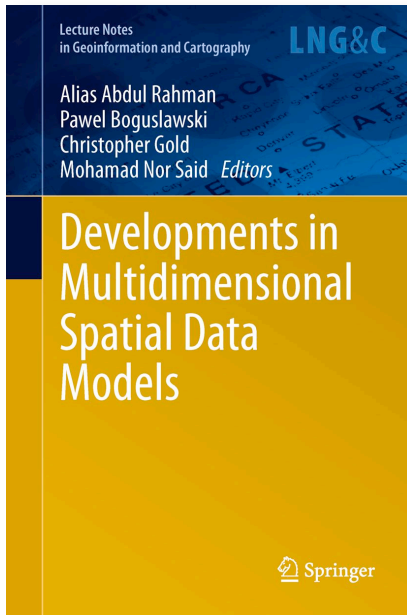
Internet Room: Building C05, 1st floor, 3D GIS Lab

Registration and Coffee Break: building C04, 1st floor, between the presentation and internet rooms

Lunch and Dinner: please ask at the registration desk

For those staying in hotels in Johor Bahru – a UTM bus from the Puteri Pacific hotel to UTM:

- 1st day (Wednesday), 7:30am, return 8:30pm
- 2nd day (Thursday), 7:30am, return 6:00pm



A. Abdul Rahman, Universiti Teknologi Malaysia, Skudai, Malaysia; P. Boguslawski, Universiti Teknologi Malaysia, Skudai, Malaysia; C. Gold, Universiti Teknologi Malaysia, Skudai, Malaysia; M.N. Said, Universiti Teknologi Malaysia, Skudai, Malaysia (Eds.)

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