

IVIN AMRI MUSLIMAN

Department of Geoinformatics
Faculty of Geoinformation and Real Estate
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SUMMARY OF QUALIFICATIONS

- 13 years of experience in Geographic Information System (GIS) and Geographic Information Technologies (GeoIT).
- 8 years experience in managing GIS and GeoIT projects.

PROFESSIONAL EXPERIENCE

Teaching

2002 – 2003 Tutor at the Department of Geoinformatics,
Faculty of Geoinformation Science and Engineering
Universiti Teknologi Malaysia, Skudai, Johor.

Subjects taught at the department:

- Introduction to Information Technology (IT).
- Data and Computer Communication.

2005 Lecturer at the Department of Geoinformatics,
Faculty of Geoinformation Science and Engineering
Universiti Teknologi Malaysia, Skudai, Johor.

Subjects taught at the department:

- Data and Computer Communication (SGG3533).
- GIS Software Applications (GeoMedia Professional).

2009 – 2010 Subjects taught at the department:

- Advance Database System (SGG4583).

2010 – 2011 Subjects taught at the department:

- Web-based GIS (SGG4583).
- Computer Programming III (SGG3643).

Short Courses

- 2002 Intermediate GIS Course for Department of Forestry (UTM Skudai).
GIS short course (Level 2) for Land Related Agencies (INSTUN).
- 2006 GIS course for Department of Statistics, Malaysia – UTM Skudai.
GIS course for Land Related Agencies (LRA) – Level II (INSTUN).
- 2007 GIS course for Land Related Agencies (LRA) – Level II (INSTUN).
GIS course for Suruhanjaya Pilihan Raya (SPR) Malaysia – UTM Skudai.
Intermediate GIS course for MaCGDI – UTM Skudai.
- 2008 Advance GIS course for Department of Statistics, Malaysia – Putrajaya.
Intermediate GIS course for MaCGDI – UTM Skudai.
- 2009 Intermediate GIS course for MaCGDI – UTM Skudai.
GPS course for Department of Statistics, Malaysia.
- 2010 Short Course "Introduction To GIS" for Institute of Public Health.
- 2011 Short Course "Introduction to Markup Language (UML, XML & GML)" for
Malaysia Center for Geographic Data Infrastructure (MaCGDI).
- Short Course "Introduction to MapInfo" for Pahang Department of
Irrigation and Drainage (JPS).

Research

- 2005 Integration of Low Cost GPS and Mobile GIS Devices – Case Study and
Prototyping for Environmental Management Tasks in Baden-
Wuerttemberg, Germany. Research project for Landesanstalt für
Umweltschutz (LfU) for MSc thesis.
- 2006 – 2009 3D Navigation for 3D-GIS (Vot. 79198, MOSTI 01-01-06-SF0264).
Developing 3D network analysis for disaster management (Vot. 79197,
MOSTI 01-01-06-SF0271)
- 2009 – 2010 Ubiquitous positioning: Integration between GIS, GPS and RFID
technology (MOSTI).
- 2009 – 2010 Pembangunan Aplikasi Pemantauan Projek Berasaskan Sistem Maklumat
Geografi (GIS) untuk Lembaga Pembangunan Industri Pembinaan
Malaysia (CIDB) 2009 (CIDBGIS).

2011 – 2012 Development Of Web 3D-GIS Analysis Tools for Urban Facility Management (Vot. Q.J130000.7127.01J23, UTM Research University Grant).

Publications

- 2006 Ivin Amri Musliman, Alias Abdul-Rahman & Volker Coors, 2006. 3D Navigation for 3D-GIS: Initial Requirements. In: Alias Abdul-Rahman, Sisi Zlatanova & Volker Coors (Eds.); Innovations in 3D Geo Information Systems , Springer (pp 259 - 268), International Workshop on 3D Geo-Information 2006, 7-8 August 2006, The Legend Hotel, Kuala Lumpur, Malaysia.
- 2007 Research Monograph UTM: Improving Accuracy using Low Cost GPS and Mobile GIS devices – Prototyping for Environmental Management Tasks.
- Ivin Amri Musliman and Alias Abdul Rahman, 2007. Modeling Dynamic Weight for 3D Navigation Routing. In: Proceedings of MapAsia 2007, 14-16 August 2007, Kuala Lumpur Convention Centre, Malaysia.
- 2008 Ivin Amri Musliman, Alias Abdul Rahman and Volker Coors, 2008. Implementing 3D Shortest Path Analysis in 3D Network. In: Proceedings of International Workshop on 3D Geo-Information 2008, 13 - 14 November 2008, University of Seoul, Seoul, South Korea.
- Ivin Amri Musliman, Alias Abdul Rahman and Volker Coors, 2008. Implementing 3D Network Analysis in 3D-GIS. In: Proceedings of The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences. Vol. XXXVII. Part B2 (pp 913 – 918), International Society of Photogrammetry and Remote Sensing Congress (ISPRS) 2008, 3-11 July 2008, Beijing, China.
- 2009 Ivin Amri Musliman, Chen Tet-Khuan, Alias Abdul-Rahman & Volker Coors, 2009. Developing 3D Navigation and 3D Buffering Tools with Geo-DBMS for Disaster Management. In: E.M. Fendel (Ed.); Proceedings of UDMS 2009, 27th Urban Data Management Symposium 2009, 24-26 June 2009, Ljubljana, Slovenia.
- Ivin Amri Musliman, Alias Abdul Rahman and Volker Coors, 2009. Modeling Visibility through Visual Landmarks in 3D Navigation using Geo-DBMS. In: Springer LNGC (pp 157-180) of International Workshop on 3D Geo-Information 2009, University of Ghent, Belgium.

- 2010 Ivin Amri Musliman, Alias Abdul-Rahman & Volker Coors, 2010. Incorporating 3D-GIS Spatial Operator and Building Information Models in Construction Management using Geo-DBMS. In: International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences. Vol. XXXVIII-4/W15 (pp 147) (ISSN 1682-1750 vol.XXXVIII-4).
- Teo, W. G., Musa, T. A., Musliman, I. A. and Omar, K. (2010). Towards In Campus Navigation with AI Route Planner. Proceedings of the 2010 International Symposium on GPS/GNSS. 26-28 October. Taipei, Taiwan.
- 2011 Ivin Amri Musliman and Chain Ee Mun, 2011. Pedestrian Navigation using Moving Object Trajectories for Location-based Services. In: International Symposium and Exhibition on Geoinformation 2011 (ISG2011). 27-29 September 2011.

Consultancy

2001 – 2002 Senior Manager, R&D Manager
Geomatika Technology Sdn. Bhd.

- Developed and customized the prototype GIS enable website for tender projects from NaLIS and NAPIC. ArcIMS, MapXtreme and Cold Fusion were used to construct a number of spatial and attribute database query in the system.
- Developed a total solution for Topographical surveying system (Topo-field-to-finish) between Compaq iPAQ with DGPS Leica GS 5+ and ArcPAD 6 software and NAVCOM GPS with TDS Ranger 200C, MDL Laser and Solo 3.1 software.
- Responsible for designing and developed a web-enable system for Pepustakaan Peta Negara (National Map Library) under Seksyen Pengeluaran Pemetaan JUPEM using Image Web Server technology. Latest project: Designed and prototyped MapOnline JUPEM 2002 (www.library.jupem.gov.my); a system for indexing, archiving and viewing raster images (all Topography and Cartography maps) and ready for e-Commerce.
- Aerial Imagery Database Development for MBSA - Involved in managing Control Points (GCPs) survey for Majlis Bandaraya Shah Alam's AAT aerial photographs project. Mosaicking of aerial photos using Virtuoso and ER Mapper.
- GIS consulting services.
- Doing support, maintenance and troubleshooting on GIS system and software, operating system, networks and hardware for clients.
- Assist client with database design and application customization.
- Installation of GIS softwares.

- Conducted GIS software training.
- Conducted demonstration of GIS software.
- Web Designer and Developer (WebGIS development).
- Application Developer using ArcView, MapInfo, MapX and MapObjects with Visual Basic.

2002 – 2003 SIRIM Berhad – Member of Working Group (WG1) for Address Geo-Coding Standards

2007 Collaboration research on 3D-GIS with Institut für Graphische Datenverarbeitung (IGD) Darmstadt, Germany and Fachhochschule für Technik Stuttgart, Germany. (January – March 2007)

AWARDS RECEIVED

2010 Silver Medal for INATEX 2010. Developing 3D-GIS Analysis Tool: 3D Shortest Path Algorithm for 3D Navigation.

2011 Bronze Medal for PECIPTA 2011. Developing 3D-GIS Analysis Tool: 3D Shortest Path Algorithm for 3D Navigation.

Bronze Medal for INATEX 2011. Formalization of 3D Topology & 3D Geometry for 3D Indoor Navigation.

MEMBERSHIP

2010 – 2012 Member of International Association of Geodesy (IAG), 2010-2012.

2003 – 2006 Committee member for SIRIM Working Group (WG1) Address Geo-Coding and Standards.

EDUCATION

Master of Science (MSc) in Photogrammetry and Geoinformatics, 2005
Fachhochschule für Technik Stuttgart, Germany

Bachelor of Science (BSc) in Geoinformatics, 2001
Universiti Teknologi Malaysia (UTM), Johor