# Contents

The Interoperable Building Model of the European Union ........................... 1
Gerhard Gröger and Lutz Plümer

Reverse RTK Data Streaming for Low-Cost Landslide Monitoring ............... 19
Etim E. Eyo, Tajul A. Musa, Khairulnizam M. Idris
and Yusuf D. Opaluwa

An Alternative Technique for Landslide Inventory Modeling Based
on Spatial Pattern Characterization ............................................. 35
Omar F. Althuwaynee and Biswajeet Pradhan

Development of a New D16 Algorithm for Single
Flow Direction Model .................................................................. 49
Wan Muhd Hairi Wan Ab Karim and Mohamad Ghazali Hashim

The Geocentric Datum of Malaysia: Preliminary Assessment
and Implications ........................................................................... 71
Noor Suryati Mohd Shariff, Tajul Ariffin Musa, Kamaludin Omar
and Rusli Othman

Spatial-Based Sustainability Assessment of Urban Neighbourhoods:
A Case Study of Johor Bahru City Council, Malaysia ....................... 85
Azman Arifin, Haziq Kamal Mukhelas, Abd. Hamid Mar Iman,
Ghazali Desa and Izran Sarrazin Mohammad

The Dual Half-Arc Data Structure: Towards the Universal
B-rep Data Structure ...................................................................... 103
François Anton, Pawel Boguslawski and Darka Mioc

Earthquake Precursory Signals from Satellite Imagery
and Seismography: A Review ....................................................... 119
Habibeh Valizadeh Alvan and Shattri Mansor
Hybrid 3D Segmentation Technique for 3D City Models. 129
Khairul Hafiz Sharkawi and Alias Abdul Rahman

A Javascript Decoder for CitySAC in 3D SDI Web Transaction 141
Siew Chengxi Bernad, Alias Abdul Rahman, Mohd Latif bin Zainal
and Fuziah binti Abu Hanifah

The Effects of Vegetation Growth on the Microclimate
of Urban Area: A Case Study of Petaling District. 151
Siti Nor Afzan Buyadi, Wan Mohd Naim Wan Mohd
and Alamah Misni

Ushahidi and Sahana Eden Open-Source Platforms to Assist
Disaster Relief: Geospatial Components and Capabilities 163
Khanh Ngo Duc, Tuong-Thuy Vu and Yifang Ban

Combining Two Clustering Ideas for Typification of Ditches 175
Jing Tian, Wen-Yu Yang and Li-Jun Chen

Seasonal Sea Surface Circulation in the Northwest Region
Off the Borneo Island Based on Nineteen Years Satellite
Altimetry Data 189
Muhammad Faiz Pa’Suya, Kamaludin Mohd Omar, Benny N. Peter
and Ami Hassan Md Din

Improvement in Accuracy Through Self-Calibration for Panoramic
Scanner 201
Mohd Azwan Abbas, Halim Setan, Zulkepli Majid, Albert K. Chong,
Derek D. Lichti and Khairulnizam M. Idris

Determination of Tidal Datum for Delineation of Littoral Zone
for Marine Cadastre in Malaysia 219
Rasheila Rahibulsadri, Abdullah Hisam Omar, Ashraf Abdullah,
Wan Muhammad Aizzat Wan Azhar, Hasan Jamil, Teng Chee Hua,
Chan Keat Lim and Tan Ah Bah

The Improved Conceptual Design of Web-based GIS Residential
Property Marketing Information System 231
Siti Aekbal Salleh, Wan Mohd Naim Wan Mohd
and Eran Sadek Said Md Sadek
Geoinformation for Informed Decisions
Abdul Rahman, A.; Boguslawski, P.; Anton, F.; Said, M.N.; Omar, K.M. (Eds.)
2014, XII, 242 p. 147 illus., 122 illus. in color., Hardcover
ISBN: 978-3-319-03643-4