

14 November 2022 (Monday)

Day 1		Activity
Date	Time (GMT+8)	
14 November 2022	08:30 – 09:00	Registration https://us02web.zoom.us/j/83677438209?pwd=OW5RZmVaaGh3a05KazRhNHN6K0prQT09
	Opening Remarks	
	09:00 – 09:10	Conference Chair – Prof Dr Alias Abdul Rahman
	Chairperson: Prof Dr Alias Abdul Rahman	
	09:10 – 09:40	Keynote 1: Dr Morakot Pilouk (ESRI Redlands, California) Technologies that Leads Us Towards Immersive GIS
	09:40 – 10:10	Keynote 2: Prof. Dr Cheinway Hwang (National Chiao Tung University, Taiwan) Height Modernization and Depth Modernization
	10:10 – 10:40	Keynote 3: Soon Kean Huat (SLA, Singapore) Effective Land Administration Underpinned by Reliable Geospatial Information: A Singapore Case
	10:40 – 10:50	Coffee Break
	Technical Session 1 (Geomatics)	
	Chairperson: Prof Dr Alias Abdul Rahman	
	10:50 – 11:10	Nur Ain Syuhada Ismail, Ami Hassan Md Din, Mohammad Hanif Hamden, Nur Adilla Zulkifli and Khairulnizam M. Idris Reduction of Mean Sea Level Depth Based on Tide Gauge Distance-Dependent at Sungai Dinding, Lumut (Paper ID: 7521)
	11:10 – 11:30	Adel Gohari, Anuar Bin Ahmad, Oloruntobi Olakunle Oluwatosin Recent Drone Applications in Malaysia: An Overview (Paper ID: 3250)
	11:30 – 11:50	Andrew O., Azmy S.N., Majid, Z Evaluating Terrestrial Laser Scanning (TLS) for Hard and Soft Landscape Mapping (Paper ID: 6623)
	11:50 – 12:10	Thiviya Sambasivam, Ami Hassan Md Din, Mohammad Hanif Hamden, Nur Adilla Zulkifli and Nadia Hartini Mohd Adzmi Interpretation of Current and Tidal Pattern at Selangor River, Kuala Selangor (Paper ID: 1425)
	12:10 – 12:30	Hamzah Tahir and Ami Hassan Md Din Vertical Accuracy Assessment for Open-Source Digital Elevation Model: A Case Study of Basrah City, Iraq (Paper ID: 7495)
	12:30 – 12:50	Abdulwaheed Tella, Muhammad Raza Ui Mustafa, Abdullateef Oluwagbemiga Balogun, Chukwuma J. Okolie, Idris Bello Yamusa, and Muhammad Bello Ibrahim Spatial Prediction of Flood in Kuala Lumpur City of Malaysia Using Logistic Regression (Paper ID: 5543)
	12:50 – 14:00	Lunch Break
	Technical Session 2 (GIS)	
	Chairperson: Dr Ivin Amri Musliman	
	Opening Speech	
	14:00 – 14:10	Dean of the Faculty of Built Environment and Surveying Prof Sr Dr Kherun Nita Ali
	14:10 – 14:30	Wahyu Marta Mutiarasari and Alias Abdul Rahman 3D Building Models Development Based on Data Fusion – Current Status (Paper ID: 6808)
14:30 – 14:50	Nur Sarah Aisyah Remli, Ami Hassan Md Din, Nur Adilla Zulkifli, Mohammad Hanif Hamden, Abd Wahid Rasib and Nur Fadila Khalid Coastal Inundation Simulation in Selangor Utilising Geospatial Technology (Paper ID: 2832)	
14:50 – 15:10	R. Fiorillo, A. De Cicco, L. Corniello Historical Documentation and Digital Survey for the Representation of the Port Landscape (Paper ID: 8558)	
15:10 – 15:30	Nur Syuhadah Mohammad, Abdul Rauf Abdul Rasam, Rosmadi Ghazali, Roslina Idris, Rabieahtul Abu Bakar Spatial Clustering Phenomena of Covid-19 Cases in Selangor: A Hotspot Analysis and Ordinary Least Squares Method (Paper ID: 7993)	
15:30 – 15:50	C. Askit, D. Ates, I. Bakir, S. Seyfeli, A.O. Ok Extraction of Point Cloud-Based Information for Powerline Corridors (Paper ID: 3449)	
15:50 – 16:10	A.B.M. Abu Haider, Muhammad Imzan Bin Hassan, Abd Wahid Bin Rasib Geospatial Approach to Wetland Vulnerability Assessment for Northwest Bangladesh (Paper ID: 8363)	

Day 2		Activity
Date	Time (GMT+8)	
15 November 2022	Technical Session 3 (Photogrammetry, Remote Sensing and Mapping)	
	Chairperson: Dr Suzanna Azmy	
	09:00 – 09:20	Elvis Ha Heng Siong, Mohd Farid Mohd Ariff, Ahmad Firdaus Razali The Application of Smartphone Based Structure from Motion (SfM) Photogrammetry in Ground Volume Measurement (Paper ID: 7660)
	09:20 – 09:40	Roslina Idris, Rabieahatul Abu Bakar, Abdul Rauf Abdul Rasam LiDAR Assessments and Mapping For Klang Valley: A Case Study at Jinjang District, Selangor (Paper ID: 6596)
	09:40 – 10:00	M. M. Bermoy, V. O. Cacayan, J. C. Carido, A. G. Apdohan, A. O. Cacayan Prediction of Future Land Use Land Cover (LULC) and Assessment of Its Impact on The Water Supply Availability of Butuan City-Taguibo River Watershed and Forest Reserve (TRWFR), Philippines (Paper ID: 3876)
	10:00 – 10:20	Louie P. Balicanta, Kenneth A. Quisado, Miguel R. Carreon, Alias Abdul Rahman, Muhammad Imzan Hassan Adoption of The Land Administration Domain Model in Makati City, Philippines (Paper ID: 5883)
	10:20 – 10:40	M. I. D. Mabalot, L. S. Sumera, A. C. Blanco, B. G. Carcellar Detailed Mapping of Residential Land Use in Quezon City Using Sentinel-2 Imagery: An Analysis of Pixel-Based Image Classification Using Support Vector Machine (Paper ID: 4710)
	10:40 – 11:00	K. P. Bolanio, A. C. Gagula, M. M. Bermoy, JM. B. Jagna, S. M. Coquilla Mapping and Assessment of Flood Evacuation Sites in A Geospatial Environment: A Case in Las Nieves, Agusan Del Norte, Philippines (Paper ID: 5716)
	11:00 – 11:10	Coffee Break
	Technical Session 4 (Remote Sensing and Earth Observation)	
	Chairperson: Assoc Prof Dr Mohd Nadzri Md Reba	
	11:10 – 11:30	A. C. Gagula, K. P. Bolanio, M. M. Bermoy, C. A. Salupado, M. G. Arayan Integrating Geospatial Techniques and UAS Technology to Update Lidar DTM for Flood Modeling in Las Nieves, Agusan Del Norte, Philippines (Paper ID: 7418)
	11:30 – 11:50	J.M. Medina, R.L. Jalbuena, R.A.B. Torres, A.C. Blanco Spatio-Temporal Characterization of Manila Bay Using Optical Water Type and Water Quality Mapping Using Sentinel-3 OLCI Images (Paper ID: 8512)
	11:50 – 12:10	C.D.C. Zablan, A.A. Nerves, A.C. Blanco, A.B. Baloloy, K.P. Martinez, M.E.P. Neri Spatio-Temporal Analysis of Decadal Mangrove Cover and Fragmentation in Region IV-B Mimaropa, Philippines (Paper ID: 7777)
	12:10 – 12:30	D.C.D.M. Vergara, A.C. Blanco Surface Urban Heat Islands and Related Health Risk in the Philippines: A Geospatial Assessment Using MODIS Data (Paper ID: 6717)
	12:30 – 12:50	J. E. Gesta, J. M. Fernandez, R. S. Lina, J. R. Santillan Aboveground Biomass and Carbon Stock Estimation of Falcata Through the Synergistic Use of Sentinel-1 and Sentinel-2 Images (Paper ID: 9300)
	12:50 – 14:00	Lunch Break
	Technical Session 5 (Geodesy and Geo-hazards)	
	Chairperson: Dr Yong Chien Zheng	
	14:00 – 14:20	Muhammad Imran Arif, Ami Hassan Md Din, Nur Adilla Zulkifli, Mohammad Hanif Hamden, Abdullah Hisam Omar and Nadia Hartini Mohd Adzmi Assessment of Sea Level Rise Impact on Peninsular Malaysia Geodetic Vertical Datum (Paper ID: 7206)
14:20 – 14:40	Suhaini Mohamad Sukairi, Sobri Harun, Kamarul Azlan Mohd Nasir, Ponselvi Jeevaragagam, Mohd Radhie Mohd Salleh Application of Geospatial and Hydrological Modeling for Runoff Estimation in Lebir River Basin, Malaysia (Paper ID: 7738)	
14:40 – 15:00	Idris Bello Yamusa and Mohd Suhaili Ismail Integration of Lineament and Strain Analysis to Assess Landslide Vulnerability Along Taiping to Ipoh Highway, Malaysia (Paper ID: 964)	
15:00 – 15:20	Ikenna D. Arungwa, Francis I. Okeke, Elochukwu C. Moka, Ikechukwu Kalu, Chukwuma J. Okolie Diagnosing the Terrestrial Water Storage Variation Over the Nigerian Space: The Grace Perspective (Paper ID: 4641)	
15:20 – 15:40	Magashi, M.M. Ja'afar and M. J. Sani Fractal Analysis for Oil Spills Clustering in Ahoada Communities of The Niger Delta Region of Nigeria (Paper ID: 7837)	
15:40 – 16:00	Nur Ayuni Ahmad Mukhtar, Ami Hassan Md Din, Nur Adilla Zulkifli, Mohammad Hanif Hamden, Abdullah Hisam Omar and Amalina Izzati Abdul Hamid Evaluation of Groundwater Storage Changes Using Satellite Gravimetry Mission in Peninsular Malaysia (Paper ID: 4040)	

16 November 2022 (Wednesday)

Day 3		Activity
Date	Time (GMT+8)	
16 November 2022	Technical Session 6 (Photogrammetry and Remote Sensing)	
	Chairperson: Dr Mohd Farid Mohd Ariff	
	09:00 – 09:20	I.L. Sari, C.J. Weston, G.J. Newnham, L. Volkova Mapping Land Cover Time Series Using Landsat-8 and Sentinel-1 in South Kalimantan (Paper ID: 1498)
	09:20 – 09:40	Hasmida Muhamad, Ernieza Suhana Mokhtar, M. Akmal Roslani A Review of Methods and Regression Models Using Satellite Imageries on Phytoplankton's Water Quality Parameters Estimation (Paper ID: 1055)
	09:40 – 10:00	M. H. M. Room & A. Ahmad Fusion of UAV-Based Lidar and Mobile Laser Scanning Data for Construction of 3D Building Model (Paper ID: 7400)
	10:00 – 10:20	Hui Lin Ng, Mazlan Hashim Mapping Trends of Carbon Dioxide and Methane During Movement Control Order in Industrial Areas in Peninsular Malaysia Using GOSAT, GOSAT-2, OCO-2, OCO-3, and Tropomi Satellites Data (Paper ID: 8176)
	10:20 – 10:40	Devica Natalia Br, Pramaditya Wicaksono, Nur Mohammad Farda Mapping Benthic Habitat From Worldview-3 Image Using Random Forest Case Study: Nusa Lembongan, Bali, Indonesia (Paper ID: 5177)
	10:40 – 11:00	Tan Jia Yi and Anuar Ahmad Quality Assessments of Unmanned Aerial Vehicle and Terrestrial Laser Scanning Methods in Road Cracks Mapping (Paper ID: 1153)
	11:00 – 11:10	Coffee Break
	Technical Session 7 (GIS & Machine Learning)	
	Chairperson: Dr Imzan Hassan	
	11:10 – 11:30	C. D. C. Zablan, A. C. Blanco, K. Nadaoka, K. P. Martinez, A. B. Baloloy Assessment of Mangrove Extent Extraction Accuracy of Threshold Segmentation-Based Indices Using Sentinel Imagery (Paper ID: 9803)
	11:30 – 11:50	D.C.D.M. Vergara, A.C. Blanco, J.S. Marciano, S.F.M. Meneses, N.J.B. Borlongan, A.J.C. Sabuito Assessing and Modelling Urban Heat Island in Baguio City Using Landsat Imagery and Machine Learning (Paper ID: 6117)
	11:50 – 12:10	J. C. L. Escasio, J. R. Santillan, M. M. Makinano-Santillan Using Machine Learning Classifiers and Regression Models for Estimating The Stand Ages of Falcata Plantations From Sentinel Data (Paper ID: 5010)
	12:10 – 12:30	A.C. Blanco, B.J.J. Harder, I.A.R. Teh Spatio-Temporal Analysis and Modelling of Dengue Incidences in Quezon City Using Ordinary Least Squares and Spatial Regression (Paper ID: 5815)
	12:30 – 12:50	Michael Moses Apeh, Alias Abdul Rahman A Review on 3D Spatial Data Models for Surface and Subsurface Integration of Spatial Objects (Paper ID: 3696)
	12:50 – 13:10	Manikandan Sathianarayanan, Pai-Hui Hsu Spatial Downscaling of GPS IMERG V06 Gridded Precipitation Using Machine Learning Algorithms (Paper ID: 2041)
	13:10 – 13:30	Emanuele Alcaras, Pier Paolo, Francesco G. Figliomeni, Claudio Parente, and Andrea Vallario Using Electronic Navigational Chart for 3D Bathymetric Model of The Port of Naples (Paper ID: 3207)
	13:30 – 14:30	Lunch Break
	Technical Session 8 (GIS & Machine Learning)	
	Chairperson: Dr Nurul Hawani Idris	
	14:30 – 14:50	El Mehdi Sellami and Hassan Rhinane A New Approach for Mapping Land Use/Land Cover Using Google Earth Engine: A Comparison of Composition Images (Paper ID: 6754)
	14:50 – 15:10	Zakaria Aamir, Mariem Seddouki, Oussama Himmy, Mehdi Maanan, Mohamed Tahiri, Hassan Rhinane Rural Settlements Segmentation Based on Deep Learning U-Net Using Remote Sensing Images (Paper ID: 8156)
	15:10 – 15:30	Lawali Rabiou and Anuar Ahmad Unmanned Aerial Vehicle Photogrammetric Products Accuracy Assessment: A Review (Paper ID: 7227)
15:30 – 15:50	Okan Yilmaz and Mehmet Alkan Topics Regarding the Joint Spatial Planning Data Model (Paper ID: 9349)	
15:50 – 16:10	Hicham Ait Raoui, Lahssen Baïdder and Hassan Rhinane Deep Learning for Geological Lineament Mapping Using High Spatial Resolution Images Case Study: Awsard Dykes of the Reguibat Shield (Moroccan Sahara) (Paper ID: 5064)	
16:10 – 16:30	H. Dastageeri, S. Schneider, M. Alfakhori, V. Coors Hot Spots in Cities - Classifying Emotions During Physical Outdoor Activities in Urban Areas (Paper ID: 1399)	
16:30 – 16:50	Mariem Seddouki, Mohamed Benayad, Zakaria Aamir, Mohamed Tahiri, Mehdi Maanan, Hassan Rhinane Using Machine Learning Coupled with Remote Sensing for Forest Fire Susceptibility Mapping. Case Study Tetouan Province, Northern Morocco (Paper ID: 3683)	

17 November 2022 (Thursday)

Day 4		Activity
Date	Time (GMT+8)	
17 November 2022	Technical Session 9 (Geodesy and Satellite Positioning)	
	Chairperson: Assoc Prof Dr Ami Hassan Md Din	
	09:00 – 09:20	J. R. Santillan Vertical Accuracy Evaluation of The Forest and Buildings Removed Copernicus DEM (FABDEM) Over the Philippines (Paper ID: 6049)
	09:20 – 09:40	Hong Sheng Lee, Wan Anom Wan Aris, Tajul Ariffin Musa, Anuar Ahmad Assessing Efficiency of GPS Ephemerides in Different Region Using Precise Point Positioning (Paper ID: 9379)
	09:40 – 10:00	Mohammed Zakari, Mazlan Hashim and Noordiyana Hassan Mapping and Detection of Hotspot Sources from Industrial Area Heat (IAH) Using Aerial and Satellite-based TIR Data in Pasir Gudang (Paper ID: 3456)
	10:00 – 10:20	M. M. Chindo, M. Hashim, A. W. Rasib Challenges of INSAR DEM Derivation with Sentinel-1 SAR in Densely Vegetated Humid Tropical Environment (Paper ID: 1697)
	10:20 – 10:40	N. A. A. Rahman, T. A. Musa, W. A. W. Aris, A. H. Omar Proposed Strategy to Obtain Optimum Inter-Station Distance for GPS CORS Development Scenario (Paper ID: 1175)
	10:40 – 10:50	Coffee Break
	Technical Session 10 (Remote Sensing and GIS)	
	Chairperson: Assoc Prof Dr Muhammad Zulkarnain Abd Rahman	
	10:50 – 11:10	Manuel, A., Blanco, A.C. Transformation of The Normalized Difference Chlorophyll Index to Retrieve Chlorophyll-A Concentrations in Manila Bay (Paper ID: 3834)
	11:10 – 11:30	Muhammad Syazmi Musa, Ami Hassan Md Din, Nur Adilla Zulkifli, Mohammad Hanif Hamden, Abd Wahid Rasib and Nur Fadila Khalid Coastal Inundation Simulation Due to Sea Level Rise in Terengganu, Malaysia (Paper ID: 2943)
	11:30 – 11:50	M. Makinano-Santillan, K. P. Bolanio, J.D. Valeroso, L.G. Yu Analyzing The Effects of Land Use / Cover Change (LULCC) Simulation on Flooding: A Case Study in Las Nieves, Agusan Del Norte, Mindanao, Philippines (Paper ID: 7662)
	11:50 – 12:10	Archana G. Pai, Krishna Mohan Buddhiraju, Surya S. Durbha Quantum Inspired Genetic Algorithm for Bi-Level Thresholding of Gray-Scale Images (Paper ID: 6428)
	12:10 – 12:40	Keynote 4: Prof Dr Gerhard Gröger (University of Bonn, Germany) Standardization of 3D City Models: What's New?
	Closing Session	
	12:40 – 13:00	Conference Chair – Prof Dr Alias Abdul Rahman Best Paper Award

Papers accepted without presentation
Ali Jamali, Masoud Mahdianpari, and Alias Abdul Rahman Hyperspectral Image Classification Using Multi-Layer Perceptron Mixer (MLP-Mixer) (Paper ID: 185)
Yusuf Hussaini Atulukwu and Alias Abdul Rahman Marine Cadastre Data Models with Temporal Aspect – Review (Paper ID: 6985)
Nouriddine Houran, Hicham Ait Raoui, Mehdi Maanan, Ayoub Aabi, Mohamed Rabii Simou and Hassan Rhinane Using GIS Data and Machine Learning for Mineral Mapping, Study Case, Bou Skour Eastern Anti-Atlas, Morocco (Paper ID: 9626)
Mohamed Rabii Simou, Safia Loulad, Zakaria Aamir, Mehdi Maanan and Hassan Rhinane Using YOLOV5 to Detect Plastic Greenhouse, Morocco (Paper ID: 5134)
Oussama Himmy and Hassan Rhinane Landslide Susceptibility Mapping Using Machine Learning Algorithms Study Case Al Hoceima Region, Northern Morocco (Paper ID: 4157)
Mohamed Benayad, Nouriddine Houran, Hassan Rhinane, Zakaria Aamir and Mehdi Maanan Geomembrane Basins Detection Based on Satellite High-Resolution Imagery Using Deep Learning Algorithms (Paper ID: 162)