

**Programme** 

Day 1: 20 October 2020 (Tuesday)

0815 - 0900	Opening Ceremony
	<ul> <li>Negaraku and Universiti Putra Malaysia (UPM) Anthems</li> <li>Doa Recitation</li> <li>Welcoming Speech by YBhg. Prof. Gs. Dr. Abdul Rashid bin Mohammed Shariff, President of IGRSM and Chairman of IGRSM 2020</li> <li>Guest Address by YBhg. Prof. Ir. Ts. Dr. Nor Kamariah Noordin, Dean, Faculty of Engineering, Universiti Putra Malaysia (UPM)</li> <li>Vice-Chancellor's Address by YBhg. Prof. Dr. Mohd Roslan Sulaiman, Vice-Chancellor, Universiti Putra Malaysia (UPM)</li> <li>Opening Address by YB Khairy Jamaluddin bin Abu Bakar, Minister of Science, Technology &amp; Innovation</li> </ul>
0900 - 1130	<ul> <li>Keynote Session I</li> <li>Chairperson: Prof. Gs. Dr. Mazlan Hashim</li> <li>YBrs. Tn. Hj. Gs. Azlikamil bin Hj. Napiah, Director General, Malaysian Space Agency (MYSA): Remote Sensing's Role in the New National Space Policy</li> <li>YBhg. Dato' Sr. Dr. Azhari Mohamed, Director General of Survey and Mapping Malaysia, Department of Survey and Mapping Malaysia (JUPEM): Geospatially Speaking, Just Where on Earth Are We Now?</li> <li>Mr. Jonathan Ong and Mdm. Siti Baizura Alidin, Planet: How Planet's Agile Aerospace Approach Pushes the Boundaries of Geospatial</li> <li>Mr. Paul Kennedy, Vice President, Product Strategy, Geointelligence, MDA Geospatial Services Inc.: Growing a Space Economy with Earth Observation</li> </ul>

1130 - 1200	Break
1200 - 1330	Keynote Session II
	Chairperson: Gs. Dr. Noordin Ahmad
	<ul> <li>Prof. Dr. Wataru Takeuchi, Remote Sensing of Environment and Disaster Laboratory (RSED), Institute of Industrial Science, University of Tokyo: Geospatial Technologies Towards One World, One Health and One Earth</li> <li>Mr. Johnny Ngo, Head of Sales Engineering APAC, Maxar: Maxar Legion Constellation: Empowering the New Era of Earth Imaging &amp; Insights</li> </ul>
1330 - 1500	Lunch Break
	VVIP Roundtable Discussion:
	<ul> <li>YBhg. Prof. Gs. Dr. Abdul Rashid Mohamed Shariff, President of IGRSM</li> <li>YBrs. Tn. Hj. Gs. Azlikamil bin Hj. Napiah, Director General, Malaysian Space Agency (MYSA)</li> <li>Mr. Andrew Brockfield, Vice President of Sales in the Asia Pacific Region, Planet</li> <li>Mr. Paul Kennedy, Vice President Earth Observation Systems, MDA Geospatial Services Inc.</li> </ul>
1500 - 1600	Solution Provider Session
	Chairperson: Gs. Dr. Dinesh Sathyamoorthy
	<ul> <li>Mr. Marcos Garcia, Business Development Manager, RIEGL in collaboration with GPS Lands: Better Scanner Utilization with RIEGL's New RiMAP GIS Software</li> <li>Sr. Ismail bin Hussin, Principal Assistant Director, Policy &amp; Outreach Section, Policy Development, Standards &amp; Outreach Branch, National Geospatial Centre (PGN): Geospatial Information Sharing in IR 4.0: Speed Up Production, Meet the Standard</li> <li>Mr. Mohamad Azhar Ahmad, Chief Operating Officer, RedPlanet Solutions (M) Sdn. Bhd.: RedPlanet Data Acquisition Services</li> <li>Mr. Simone Placidi, Managing Director, Metasensing AP Pte. Ltd.: MetaSensing SAR Solutions: From Ground to Space</li> </ul>
1600 - 1800	<ul> <li>Parallel Session A</li> <li>A1: Geospatial Mapping &amp; Monitoring I</li> <li>A2: Geospatial Modelling I</li> <li>A3: Geospatial Planning &amp; Management I</li> <li>A4: Geospatial Decision-Making I</li> </ul>

Day 2: 21 October 2020 (Wednesday)

0900 - 1100	<ul> <li>Parallel Session B</li> <li>B1: Geospatial Mapping &amp; Monitoring II</li> <li>B2: Geospatial Modelling II</li> <li>B3: Geospatial Planning &amp; Management II</li> <li>B4: Geospatial Decision-Making II</li> </ul>
1100 - 1130	Break
1130 - 1330 1330 - 1430	Parallel Session C
1430 - 1630	Parallel Session D
1630 – 1700	Closing Ceremony Presentation of Best Paper and Best Student Paper Awards



## Technical Sessions

DATE	TIME	SESSION	PAPER
DAY 1 20 October 2020 (Tuesday)	1600 - 1800	A1: GEOSPATIAL MAPPING & MONITORING I	Epssions Chair: Lt. Cdr. Assoc. Prof. Gs. Dr. Mohd Hasmadi Ismail  Change Detection for the Past Three Decade Using Geospatial Approach: A Case Study of Lake Chad in Central Africa Alhaji Hussaini, Mohd Razali Mahmud and Kelvin Kang Wee Tang  Assessing Land-Use and Land-Cover Change (LULCC) between 2009 and 2019 Using Object-Based Image Analysis (OBIA) in Cameron Highlands, Malaysia Darren How, Mohd Hasmadi Ismail and Farrah Melissa Muharam  Utilization of GEE for Land Cover Monitoring over Klang Valley, Malaysia Noor Azawani Wahap and Helmi Zulhaidi Mohd Shafri  Monitoring and Change Detection of Concentration Values for Zinc and Lead Minerals in Soil of Agricultural Lands Based on Remote Sensing Analysis and GIS Hashim Ali Hasab
		A2: GEOSPATIAL MODELLING I	Geospatial Technology Methods for Terrestrial Carbon Assessment: A Comprehensive Review Basam Dahy, Salem Issa, Taoufik Ksiksi and Nazmi Saleous  Investigating the Impact of Land Use Change on Sediment Yield for Hydropower Reservoirs through GIS Application  Azwin Zailti Abdul Razad, Sarah Hanim Samsudin, Anita Setu and Lariyah Mohd Sidek  Measuring the Magnetic Impact of Economic Agglomeration through Spatial Analysis in Pengerang, Johor.  Noordini Che'Man and Amirul Afiq Jamaluddin  Evaluation of Allometries for Estimating Above-Ground Biomass Using Airborne LiDAR Data in Tropical Forest of Northern Borneo  Ho Yan Loh, Jim Jun Fei Liew, Daniel James, Keiko loki and Mui-How Phua

DATE	TIME	SESSION	PAPER
DAY 1 20 October 2020 (Tuesday)	1600 - 1800	A3: GEOSPATIAL PLANNING & MANAGEMENT I	Sessions Union Clatic: Assoc. Prof. Gs. Dr. Ahmad Fikri Abdullah  Seismic Vulnerability Assessment for Buildings Typology Using DEMATEL Approach Ratiranjan Jena and Biswajeet Pradhan  Determining Variations in Rail Public Transport Access Using GIS in Klang Valley City, Selangor, Malaysia Mohd Sahrul Syukri Yahya, Edie Ezwan Mohd Safian and Burhaida Burhan  Comparison of Interpolation Techniques for Assessment of Spatial Variability of Soil Chemical Properties for Oil Palm Plantation Zone Management Shu Qing Tan, Ahmad Suhaizi Mat Su, Aimrun Wayayok and Arina Shairah Abdul Sukor  Development of GIS Database for Infrastructure Management: Power Distribution Network System Muhammad Amartur Rahman Bin Zainal Abidin, Khairul Nizam Abdul Maulud and Mohd Aizat Saiful Bahri  Integrated Facility and Assets Management Using GIS-Web Application Mohd Aizat Saiful Bahri, Khairul Nizam Abdul Maulud and Amartur Rahman Zainal Abidin  Spatiotemporal Analysis Land Surface Temperature in Relation to Earthquake Occurrence around the Cimandiri Fault Diki Nurul Huda, Supriatna, Iqbal Putut Ash Shidiq and Taqyuddin  Comprehensive Spatial Criteria and Parameters for Sustainable Landfill Site Selection Mohd Sanusi S. Ahamad and Siti Zubaidah Ahmad  RFID Monitoring System and Management on Deer Husbandry Rizzo Mungka Rechie, Murizah Kassim, Norsuzila Ya'Acob and Roslina Mohamad
		A4: GEOSPATIAL DECISION-MAKING I	Sessions Chair:  Prof. Sr. Dr. Zulkiflee Abd Latif  Assessment of Environmental Sustainability Level of Affordable Housing in Malaysia Nurul Aini Ismail, Zakri Tarmidi, Muhammad Najib Mohamed Razali, Nurul Hana Adi Maimun, Noordyana Hassan, Ahmad Nabil Md Nasir, Akhmal Sidek and Nik Norasma Che Ya  Earthquake Risk Assessment Using Integrated Influence Diagram—AHP Approach Ratiranjan Jena and Biswajeet Pradhan  Earthquake Social Vulnerability Assessment Using Entropy Method Ratiranjan Jena and Biswajeet Pradhan  GIS-based Technical and Economic Feasibility Analysis of Utility-Scale Photovoltaic Plants in West Kalimantan - Indonesia Sakti Anggara, Irwan Budiarto, Ibrahim Bathis Kunhali, Alfeus Sunarso and Harold Ruiz  GIS Based Multi-Criteria Decision Making for Identification of Important Plant Areas: A Case Study in Johor, Malaysia Hamidah Mamat, Mohd Hasmadi Ismail, Chua L.S.L., Lau K.H. and Yong W.S.Y.  Landslides Risk Prediction Using Cascade Neural Networks Model at Muş in Turkey Sohaib K. M. Abujayyab and Azlan Saleh

DATE	TIME	SESSION	DADED
DATE	TIIVIE	SESSION	PAPER PAPER
DAY 2 21 October 2020 (Wednesday)	0900 - 1100	B1: GEOSPATIAL MAPPING & MONITORING II	Sessions Chair: Gs. Dr. Hamdan Omar  The Fixed Wing UAV Usage on Land Use Verification for Gazetted Royal Land in Malaysia Norzailawati Noor, Norzailina Harun and Alias Abdullah  Upscaling Remote Estimation on Relative Abundance of Chengal Trees in Tropical Rainforest Using Modified Canopy Fractional Cover (mCFC) Approach Noordyana Hassan, Mazlan Hashim, Shinya Numata and Mohammad Zakri Tarmidi  Identifying the Spatial Patterns of Housing Distribution in Johor Bahru through Spatial Autocorrelation Nur Asyikin Mohd Sairi, Burhaida Burhan and Edie Ezwan Mohd Safian  Vegetation Indices for Identifying Melaleuca Forest from Multispectral Satellite Sensors Hamdan Omar, Muhamad Afizzul Misman and Siti Yasmin Yaakub  Spatio-Temporal Pattern Analysis of Forest Fire Event in South Kalimantan Using Integration Remote Sensing Data and GIS for Forest Fire Disaster Mitigation Huwaida Nur Salsabila, Abhista Fawwaz Sahitya and Panji Mahyatar  Development of a Landscape Forest Performance Index to Assess Forest Quality of Managed Forests Muhamad Afizzul Misman, Siti Yasmin Yaakub and Hamdan Omar
		B2: GEOSPATIAL MODELLING II	Assessment of Climate Change Impact on Future Streamflow at Bernam River Basin Malaysia Habibu Ismail, Md Rowshon Kamal, Lai Sai Hin, Ahmad Fikri Bin Abdullah and Nuruddeen Mukhtar Nasidi  Dengue Hotspot Detection in Bangi, Selangor, Malaysia Nuriah Abd Majid and Rozimah Muhamad Rasdi  Modelling Burglary Susceptibility – An Expert Judgement Approach. Suzanna Noor Azmy, Muhammad Zulkarnain Abdul Rahman, Shahabuddin Amerudin, Othman Zainon and Tze Huey Tam  Burglary Crime Susceptibility Assessment Using Bivariate Statistics Approach of Information Value Model Suzanna Noor Azmy, Muhammad Zulkarnain Abd Rahman, Amerudin Shahabuddin, Othman Zainon and Mohd Asraf Asmadi  Implementing Sustainable Urbanization Development Using Geospatial Approach Muhammad Azizol Ismail, Ahmad Nazri Muhamad Ludin and Nafisa Hosni  Analysis of Canopy Height Model (CHM) Extraction Using Quick Terrain Modeller (QTM) for Tropical Forest Nurul Ain Mohd Zaki, Muhammad Farhan Rajuli, Zulkiflee Abd Latif, Mohd Nazip Suratman, Hamdan Omar, Mohd Zainee Zainal, Sharifah Norashikin Bohari and Noorfatekah Talib

DATE	TIME	SESSION	PAPER
DAY 2 21 October 2020 (Wednesday)	0900 - 1100	B3: GEOSPATIAL PLANNING & MANAGEMENT II	Essions Chair: Gs. Dr. Norizah Kamarudin  Land Cover and NDBI Analysis to Map Built up Areas in Iskandar Malaysia Muhammad Yazrin Yasin, Jamalunlaili Abdullah, Norzailawati Hj Mohd Noor and Mariney Mohd Yusoff  Development of an Android Application for Smart Farming in Crop Management Nor Athirah Roslin, Nik Norasma Che Ya and Mohd Razi Ismail  Data Integration with a Twist Lyes Mokraoui  A 2-way Geo-Crowdsourcing Approach in Flood Relief Coordination and Distribution Nurul Hawani Idris and Mohamad Hafis Izran Ishak  Drone Technology as a Modern Tool in Monitoring the Urban Rural Development Asniza Md Yunus, Abd Halim Hamzah and Fatin Afiqah Md. Azmi
		B4: GEOSPATIAL DECISION-MAKING II	Finding Optimal Locations of Uniqlo Stores Using Analytical Hierarchical Process (AHP) and GIS Analysis  Mukrimo'az Mat Hashim and Nabilah Naharudin  Influence of Data Quality to Vegetation Passability  Josef Rada, Marian Rybansky and Filip Dohnal  The Impact of Microrelief Forms on Mobility of Terrain Vehicles  Marian Rybansky, Filip Dohnal and Josef Rada  Crime Prediction Using Spatial Repeat and Near-Repeats Analysis for Geospatial Policing  Strategies  Hasranizam Hashim, Wan Mohd Naim Wan Mohd, Eran Sadek Said Md Sadek, Dato' Sahabudin Abd  Manan, Mohd Kamal Kordi and Hisyamuddin Mohd Baharin  Landslide Possibilities Using Remote Sensing and Geographical Information System (GIS)  Norsuzila Ya'Acob, Zarith Nur Atikah Abdul Rashid, Noraisyah Tajudin and Murizah Kassim  The Development of Raspi-Met System with Raspberry Pi3 for Meteorological Monitoring in Remote Areas  Wayan Suparta

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DATE	TIME	SESSION	PAPER
DAY 2 21 October 2020 (Wednesday)	1130 – 1330 ctober 020	C1: GEOSPATIAL MAPPING & MONITORING III	Gs. Dr. Khairul Nizam Tahar  The Integration of Aerial Sensing and Geophysical Techniques to Identify Buried Archaeological Properties in Sungai Batu, Bujang Valley (Kedah, Malaysia) Shairatul Akma Roslan, Mohd Fitri Mohd Yakub, Mohd Noor Norzailawati, Shuib Rambat and Mokhtar Saidin  Mapping of Archaeological Sites Using UAV Aerial Survey and PPK GNSS Ground Survey Techniques in Central Asia Stanley Anak Suab, Yuichi Hayakawa and Shogo Kume  Tree Stump Height Estimation Using Canopy Height Model at Tropical Forest in Ulu Jelai Forest Reserve, Pahang, Malaysia Siti Nor Maizah Saad, Khairul Nizam Abdul Maulud, Wan Shafrina Wan Mohd Jaafar, Aisyah Marliza Muhmad Kamarulzaman and Gs Dr Hamdan Omar  Assessment of Land Use Land Cover Change and Its Impact on Soil Erosion Using GIS and Revised Universal Soil Loss Equation Model. Sarah Hanim Samsudin, Azwin Zailti Abdul Razad, Anita Setu and Mohd. Nadzari Ismail  Correlation Analysis of Urban Development and Land Surface Temperature Using Google Earth Engine in Sleman Regency, Indonesia Amanda Maishella, Bayu Elwantyo Bagus Dewantoro and Muhammad Ari Purnomo Aji  A Comparative Study of Modern UAV Platform for Topographic Mapping Hamid Chaudhry, Dr. Anuar Ahmad and Qudsia Gulzar  Comparative Assessment of the Unsupervised Land Use Classification by Using Proprietary GIS and Open Source Software  Muhammad Azizol Ismail, Ahmad Nazri Ludin and Nafisa Hosni
		C2: GEOSPATIAL MODELLING III	Review of Conceptual Model to Spatially Assess Safe City Level of Affordable Housing in Malaysia Salwa Najlaa, Zakri Tarmidi and Noorsidi Aizuddin Mat Noor  Review of Spatial Model to Assess Suitability of Affordable Housing Based on Demand Criteria Zur'Ain Zamri, Zakri Tarmidi and Nurul Hana Adi Maimun  The Use of Geo-Spatial Data from GIS in Quantitative Analysis of Landslides Muhammad Bello Ibrahim, Indra Sati Hamonangan Harahap, Abdul-Lateef Babatunde Balogun and Aliyu Usman  The Development of Continuous Hydrographic Datum Using Geodetic Based Approaches: A Review Mohd Faizuddin Abd Rahman and Ami Hassan Md Din  A Deep Learning Approach to Ship Detection Using Satellite Imagery Marzuraikah Mohd Stofa, Mohd Asyraf Zulkifley and Siti Zulaikha Muhammad Zaki  A Spatial Analysis of the Relationship Between Socio-demographic Characteristics with Burglar Behaviours on Burglary Crime Ling Sie Chiew, Shahabuddin Amerudin and Zainab Mohamed Yusof

DATE	TIME	SESSION	PAPER
DAY 2 21 October 2020 (Wednesday)	1130 - 1330	C3: GEOSPATIAL PLANNING & MANAGEMENT III	Performance of Different Classifiers for Marine Habitat Mapping Using Side Scan Sonar and Object-Based Image Analysis Raihanah Rusmadi and Rozaimi Che Hasan  Identifying Tall Trees in Man-Made Tropical Rain Forest Using UAV LiDAR Cloud Point Siti Yasmin Binti Yaakub, Muhamad Afizzul Misman and Hamdan Omar  Slope Effect on the Vertical Accuracy of Spatial Information Using Multi Rotor UAV Noorfatekah Talib, Amir Ariff Subri, Dr Rohayu Haron Narashid, Muhammad Faiz Pa'Suya and Siti Aminah Anshah  Self-adaptive Image Segmentation Optimization for Hierarchal Object-based Classification of Drone-based Images Rami Al-Ruzouq, Mohamed Barakat and Abdallah Shanableh  Identification Spectral Signature of Weed Species in Rice Using Spectroradiometer Handheld Sensor Nik Norasma Che'Ya, Lutfi Amir Nor Alahyadi, Wan Fazilah Fazlil Ilahi, Siti Nur Aliaa Roslan and Zakri Tarmidi  A lightweight Two-Factor Authentication scheme for real-time information in the Internet of Drones Haqi Khalid, Shaiful Jahari Hashim, Sharifah Mumtazah Syed Aham, Fazirulhisyam Hashim and Muhammad Akmal Chaudharye.
		C4: GEOSPATIAL DECISION-MAKING III	Quantitative Morphometric Analysis of Mandakini River Basin Using Remote Sensing and GIS Techniques Abdul Qadir, Mohammad Yasir, Ismail Ahmad Abir, Naseem Akhtar and Hwee San Lim Improved Land Cover Mapping Using Landsat 8 Thermal Imagery Jwan Al-Doski, Shattri B. Mansor, H'Ng Paik San and Zailani Khuzaimah  Conceptual Framework for Walkability Assessment for Pedestrian Access to Rail Transit Services by Using Spatial-MCDA Nabilah Naharudin, Abdul Hakim Salleh, Maisarah Abdul Halim and Zulkiflee Abd Latif Rock Slope Monitoring Using Drone Based Multispectral Image and Thermal Images. Muhammad Latifi Mohd Yaacob, Abd Wahid Rasib, Ahmad Safuan A Rashid, Afiqah Ismail, Radzuan Sa'Ari, Mushairry Mustaffar, Norbazlan Mohd Yusof and Norisam Abd Rahaman  SmartKADASTER Interactive Portal (SKiP), Is It Fit for Purpose? Nur Zurairah Abdul Halim and Chan Keat Lim  The Integration of Remote Sensing Data for Lineament Mapping in the Semanggol Formation, Northwest Peninsular Malaysia Ali Imran Azman, Jasmi Ab Talib and Mohamad Shaufi Sokiman  Non-Destruction Method for Detecting Corroded Underground Pipe Using Ground Penetrating Radar Nurhazimah Husna Shokri, Zulkarnaini Mat Amin and Vanessa Ak Seli

DATE	TIME	SESSION	PAPER
DAY 2 21 October 2020 (Wednesday)	1430 - 1630	D1: GEOSPATIAL MAPPING & MONITORING IV	Sessions Urban Growth in Seremban Basin Using Spatio-Temporal CA-MC Model Rabia Ajeeb, Maher Aburas, Abdelsalam Ali, Faisal Baba and Motasem Azaiza  Identification of Dry Areas on Agricultural Land Using Normalized Difference Drought Index in Magetan Regency Fidya Rismayatika, Ratna Saraswati, Iqbal Putut Ash-Shidiq and Taqyyudin  Assessing Hutan Simpan Ampang Using GIS-based Potential Surface Analysis Approach Emal Ahmad Hussainzad, Mohd Johari Mohd Yusof, Hangyu Gao, Kevin Kor Yu Yang, Norman Wong Kueng Ming, Mohammad Shafiq Abdul Majid and Tengyun Xu  Feasibility Study on Walkable City through Implementation of Car-Free Zones in Georgetown, Penang Using GIS Network Analysis Abdul Hakim Salleh, Mohd Sanusi S Ahamad and William Gui Win Way  Predictive Model of Mangroves Carbon Stocks in Kedah, Malaysia Using Remote Sensing Tengku Mohd Zarawie Tengku Hashim, Mohd Nazip Suratman, Jasmee Jaafar, Harinder Rai Singh and Ahmad Naqiyuddin Bakar  Modeling Catchment Land Use Changes against Water Yield with Satellite Multi-Temporal Data Babangida Baiya and Mazlan Hashim
		D2: GEOSPATIAL MODELLING IV	Sessions Chair: Gs. Dr. Zakiah Ponrahono  Remote Estimation of Gross Primary Production (GPP) Using MODIS Data in Kelantan: A Preliminary Assessment Aisyah Syazana Adeli and Jemali Noor Janatun Naim  Application of Thermal Imaging for Plant Disease Detection Izrahayu Che Hashim, Abdul Rashid M. Shariff, Farrah Melissa Muharam, Siti Khairunniza Bejo, Khairulmazmi Ahmad and Haslina Hashim  Spatio-Temporal Assessment of Aerosol Optical Depth From Himawari-8 Satellite Data over Malaysia Nurul Amalin Fatihah Kamarul Zaman and Kasturi Devi Kanniah  Monitoring Groundwater Depletion Due to Drought Using Satellite Gravimetry: A Review Norhafizi Mohamad, Anuar Ahmad and Ami Hassan Md Din  Deep Learning-Based Water Segmentation for Autonomous Surface Vessel Muhammad Ammar Mohd Adam, Ahmad Imran Ibrahim, Zulkifli Zainal Abidin and Hasan Firdaus Mohd Zaki  Modelling the Multipath Signal from a GPS Receiver Located at Agensi Angkasa Negara Malaysia Chew Jia Chin

DATE	TIME	SESSION	PAPER
DAY 2 21 October 2020 (Wednesday)	1430 - 1630	D3: GEOSPATIAL PLANNING & MANAGEMENT IV	Sessions Chair: Gs. Dr. Hamdan Omar  Comparative Analysis of Malaria Cases Using Geospatial-statistical Approach in Hadejia Metropolis, Jigawa State, Nigeria Jibrin Gambo, Helmi Zulhaidi Bin Mohd Shafri, Abubakar Ahmed, Yusuf Ahmed Yusuf and Maryam Babangida Adam  Colour Feature Extraction Techniques for Real Time System of Oil Palm Fresh Fruit Bunch Maturity Grading Meftah Alfatni, Abdul Rashid Bin Mohamed Shariff, Osama Ben Saeed and Atia Mahmod Albhbah  The Effect of Ground Penetrating Radar (GPR) Image Reflection on Different Pipes and Soil Nurafifah Mohamad, Zulkarnaini Mat Amin and Nur Haafizah Mohd Kamal  Developed of Low-Cost Integrated Sensors and Geo-Location for Smart Agriculture in Bangladesh Roshidul Hasan, Morshedur Rahman, Tonmoy Ahmed, Mizanur Rahman and Anamul Haque
		D4: GEOSPATIAL DECISION-MAKING IV	Estimated Relative Permittivity of Contaminated Laterite Soil: An Empirical Model for GPR Waves Mimi Diana Ghazali, Othman Zainon, Rahmat Mohsin, Khairulnizam M.Idris and Nordhalia Mustafa  Spatial Pattern of Affordability and Overhang in Selangor Nur Arzwin Mohamed Aris, Mohamad Syazli Fathi, Aizul Nahar Harun and Zainai Mohamed  Mapping Seasonal Variations of Grazing-Land Above-Ground Biomass with Sentinel 2A Satellite Data Muhammad Isa Zumo and Mazlan Hashim  Assessing the Economic Value of Carbon Sequestration in Taman Negara Pahang Emal Ahmad Hussainzad and Mohd Johari Mohd Yusof  An Approach for the Retrieval of Land Surface Temperature from the Industrial Area Using Landsat-8 Thermal Infrared Sensors Mohammed Dahiru Zakari and Mazlan Hashim  Modelling Catchment Land Use Changes against Water Yield with Satellite Multi-Temporal Data Babangida Baiya and Mazlan Hashim

## **POSTERS**

**Airborne LiDAR for Above-Ground Biomass Estimation in Tropical Forests** *Mui-How Phua* 

Geostatistics of Oil Palm Trees Affected by Ganoderma Disease in Low and High Planting Density Mohd Shukri Ibrahim, Mohammad Izzuddin Anuar, Mohd Hefni Rusli and Idris Abu Seman

Paddy Monitoring in Seberang Perak, Malaysia Using Multi-Temporal Sentinel-1 Data Azhar Abed and Abdul Rashid Mohamed Shariff

Visualizing Distribution of Common Livestock Disease in Perak State Using Geographical Mapping from Year 2017 to 2019

Mohammad Masrin Azami, Fakhrulisham Razali, Sharil Azwan Mohd Zain, Zaini Che Mamat, Aisya Naama Tulis and Faizah Hanim Mohd Saied

Long Range Locator (LRL) Beacon

Dinesh Sathyamoorthy

Classification of Oil Palm Fresh Fruit Bunch Ripeness Level by Using Oil Palm Ripeness Detector and Spectrometer

Goh Jia Quan, Abdul Rashid Mohamed Shariff and Nazmi Mat Nawi

Prospecting Fe-Skarn Mineralization Using ASTER Satellite Data: Case Study from Ravanj Village, Markazi Province, Iran

Omid Kiani, Abdolhamid Ansari, Amin Beiranvand Pour and Aidy M Muslim

Analyses Water Bodies Effect in Mitigation of Urban Heat Effect: Case Study Small Size Cities Kuching, Sarawak, Malaysia.

Ricky Anak Kemarau Kemarau and Oliver Valentine Eboy

The Approach for Maturity Level Prediction of Oil Palm Fresh Fruit Bunches by Using Optical Spectrometer

Adilijiang Tuerxun, Abdul Rashid Mohamed Shariff, Shattri Mansor, Rimfiel Janius, Zulkifly Abbas and Ghafour Amouzad Mahdiraji

Assessing Coastal Land Dynamics along UAE Shoreline Using GIS and Remote Sensing Techniques

Diena Al Dogom, Shaikha Albesher, Saeed Al Mansoori and Tasnim Nazzal