IGRSM 2018

PROGRAMME
Day 1: 24 April 2018 (Tuesday)

Time	Activity
0800 - 0900	Registration
0900 - 0945	Opening Ceremony (Manhattan II): Arrival of participants, guests and VIPs Arrival of YBhg. Datuk Seri Dr. Mohd Azhar Bin Hj. Yahaya, Secretary General, Ministry of Science, Technology & Innovation Doa Recitation Welcoming Speech by YBhg. Prof. Gs. Dr. Abdul Rashid bin Mohammed Shariff, President of IGRSM and Chairman of IGRSM 2018 Guest Address by YBhg. Prof. Dato' Dr. -Ing. Ir. Renuganth Varatharajoo, Deputy Vice Chancellor (Industry & Community Relations), Universiti Putra Malaysia (UPM) Opening Address by YBhg. Datuk Seri Dr. Mohd Azhar Bin Hj. Yahaya, Secretary General, Ministry of Science, Technology & Innovation Opening ceremony
0945 - 1030	Tea break and visit to exhibition booths
1030 – 1300	Keynote Session (Manhattan II): • YBhg. Datuk Ir. Dr. Azuhan Mohamed, Director General, National Hydraulic Research Institute of Malaysia (NAHRIM), Ministry of Natural Resources and Environment (NRE), Malaysia: *Geospatial Enablement for Hydrological Applications* • YBhg. Prof. Dr. Arthur P. Cracknell, Emeritus Professor, University of Dundee, UK and Visiting Professor, Universiti Teknologi Malaysia (UTM), Malaysia: *The Evolution of the Development of Remote Sensing Technologies: The Last 40 Years* • YBrs. Assoc. Prof. Dr. Marian Rybansky, Department of Geography and Meteorology, University of Defence, Czech Republic: *Geospatial Support for Defence & Security*
1300 - 1430	Lunch Break: Manhattan III
1430 - 1630	Parallel Session 1: • 1A: Geospatial I — Manhattan II • 1B: Remote Sensing I — Bronx V • 1C: Navigation — Bronx VI • 1D: Technology Trends — Manhattan VI
1700 - 1900	2018 Annual General Meeting (AGM) of IGRSM: Manhattan VIII

Day 2: 25 April 2018 (Wednesday)

0800 - 1000	Parallel Session 2:
	• 2A: Oil Palm Special Session I
	   Manhattan II
	• 2B: Geospatial II
	   Bronx V
		• 2C: Remote Sensing II
		   Bronx VI
		• 2D: Big Data
		   Bronx IV

1000 – 1100	Tea break + Poster Presentation

1100 - 1300	Parallel Session 3:
	• 3A: Oil Palm Special Session II
	   Manhattan II
	• 3B: Application I
	   Bronx V
		• 3C: Forestry / Land Cover Mapping
		   Bronx VI
		3D: Disaster Management
		   Bronx IV

1300 - 1400	Lunch Break: Manhattan III

1400 - 1600	Parallel Session 4:
	• 4A: Oil Palm Special Session III,
	   Agriculture and Land Use
	   Manhattan II
	• 4B: Application II
	   Bronx V
		• 4C: Environmental Monitoring
		   Bronx VI
		• 4D: Land Use/Urban and Others
		   Bronx IV

1600 – 1630	Tea break

1630 - 1700	Closing Ceremony (Manhattan II) Presentation of Best Paper , Best Student Paper and Best Poster Presentation awards

26 April 2018 (Thursday)
8.00 am – 5.00 pm

IGRSM 2018 Post-Conference Workshop on *Hands-On:*
Remote Sensing Data Processing for Forest Composition Identification

Venue: Dewan Seminar, Level 2, Administration Block,
Faculty of Engineering, Universiti Putra Malaysia (UPM), Serdang, Selangor

Registration Fee:
Malaysian Participants: RM 1,000
International Participants: USD 300
IGRSM Members and IGRSM 2018 Participants: RM 800

For further details on this workshop, please contact insteg@utm.my

Day 1: Tuesday, 24 April 2018

1430 - 1630	**Parallel Session 1:**
	• **1A: Geospatial I**
	PID5: Regional geological mapping in Northern Victoria Land, Antarctica using multispectral remote sensing satellite data *Amin Beiranvand Pour, Yongcheol Park, Mazlan Hashim and Jong Kuk Hong*
	PID10: Discovering of high potential zones for gold mineralization using remote sensing satellite data: Mersing, Johor Bahru, SE Malaysia *Amin Beiranvand Pour and Mazlan Hashim*
	PID46: Generating the digital elevation model through aerial technique *Faiz Arif, Khairul Nizam Abdul Maulud and Abdul Aziz Ab Rahman*
	PID79: The role of geospatial technology in plant pests and diseases : an Overview *Norraisha Md Sabtu, Nurul Hawani Idris and Mohamad Hafis Izran Ishak*
	PID117: Urban growth pattern with urban flood and temperature vulnerability using AI: a case study of Delhi *Gaurav Singh, Shafia Ahmad and Bharath H. Aithal*
	PID129: Topological information from buildings in CityGML *Syahiirah Salleh and Uznir Ujang*
	PID147: The effect of reclamation land on water clarity using remote sensing *Aisah Taufik Hidayat Abdullah, Nurulamani Rosman and Ismail Ahmad Abir*
	PID171: Human elicited features in retail site analytics *Hui-Jia Yee, Choo-Yee Ting and Chung Ching Ho*
	• **1B: Remote Sensing I**
	PID9: Per-pixel and sub-pixel mapping of alteration minerals associated with Geothermal Systems using ASTER SWIR data *Aliyu Ja'afar Abubakar, Mazlan Hashim and Amin Beiranvand Pour*
	PID93: Estimating mangrove above-ground biomass changes in

Sabah, Malaysia between 2000 and 2015 using shuttle radar topographic mission digital elevation model and landsat Imageries
Charissa Jasmine Wong, Nur Athirah Mohd Kamal, Daniel James, Normah Awang Besar and Mui-How Phua

PID113: Classification and change detection of Sabah mangrove forest using decision-tree learning technique
Nurul Aini Kamaruddin

PID121: Multispectral sensors calibration for lightweight UAV
Yaakob Mansor, Shattri Mansor, Helmi Zulhaidi Mohd. Shafri, Abdul Rahman Ramli and Ajibola Isola.

PID153: Rainfall – landslide potential mapping using remote sensing and GIS at Ulu Kelang, Selangor, Malaysia
Noraisyah Tajudin, Norsuzila Ya'acob, Darmawaty Mohd Ali, Noraizam Adnan and Azita Laily Yusof

PID176: Evaluation of atmospheric correction models and landsat surface reflectance product in Daerah Istimewa Yogyakarta, Indonesia
Febrina Ramadhani Yusuf, Kurniawan Budi Santoso, Muhammad Ulul Lizamun Ningam, Muhammad Kamal and Pramaditya Wicaksono

PID186: Correction pit free canopy height model derived from LiDAR data for the broad leaf tropical forest
Lindah Roziani Jamru

PID200: The impact of coastal charasteristics to the coastal
Muhammad Afiq Ibrahim and Khairul Nizam Abdul Maulud

- **1C: Navigation**

  PID1: The measurement of thunderstorms activity in Antarctic peninsula based on GPS Sensing
  Wayan Suparta

  PID51: Remote sensing UAV/drones and its applications for urban areas
  Norzailawati Mohd Noor, Alias Abdullah and Mazlan Hashim

  PID78: Preliminary study: the estimation of receiver code bias for MyRTKnet stations over Malaysian Region
  Siti Syukriah Khamdan, Tajul Ariffin Musa, Dudy Darmawan Wijaya and Suhaila M. Buhari

PID87: Performance analysis of SISPELSAT MSK-DGNSS radio signal in Peninsular Malaysia
Muhammad Syazwan Razak and Tajul Ariffin Musa

PID91: Four-dimensional wave refraction from Sentinel-1A satellite data
Maged Marghany

PID144: Extending the concept of institutional analysis to the marine spatial planning practice
Muhammad Hafiz Mohd Yatim, Abdullah Hisam Omar, Nazirah Mohamad Abdullah and Azlineer Sarip

PID207: Accuracy assessment on low altitude UAV-borne photogrammetry outputs influenced by ground control point at different altitude
Sharan Kumar Nagendran, Wen Yan Tung and Mohd Ashraf Mohamad Ismail

- **1D: Technology Trends**

  PID49: Characterizing and monitoring of mangroves in Malaysia using Landsat-based spatial-spectral variability
  Hamdan Omar, Muhamad Afizzul Misman and Valeria Linggok

  PID41: The detection of concrete bridge structure movement using global positioning system static technique - overview on traffic flow
  Masreta Mohd, Othman Zainon, Abd Wahid Rasib, Zulkepli Majid, Nasarularifin Kamaruddin and Yee Wui Chee

  PID96: Multi-temporal sentinel-1a synthetic aperture radar for Mekong delta land cover mapping: a comparison between random forest and support vector machines
  Khanh D. Ngo, Alex M. Lechner and Thuy T. Vu

  PID142: Drone 3D mapping in identifying Malay urban form: case study in Kota Bahru
  Ahmad Afiq Aiman B Abdullah, Norzailawati Mohd Noor and Alias Abdullah

  PID143: Quantitative precipitation estimation for massive rainfall in Malaysia
  Nurulhani Roslan, Mohd Nadzri B Md Reba, Achmad Syafiuddin, Noor Emi Fadzilah Ramlan and Mazlan Hashim

  PID154: Determination of gravimetric geoid model in the northern region of Peninsular Malaysia (NGM17) using least squares modification of stokes formula (LSMS) with additive corrections
  Muhammad Faiz Pa'Suya, Nurul Nabilah Md.Yusof, Ami Hassan

	Md. Din, Amir Hamzah Othman, Zainal Abidin Md Som, Zulkarnaini Mat Amin, Mohamad Azril Che Aziz and Mohd Adhar Abd Samad **PID180**: Assessing success of forest selective management system using geospatial technology *Wan Abdul Hamid Shukri Wan Abdul Rahman, Razis Osman, Ameer Haqeem Abdul Khalid, Alias Mohd Sood and Ishaq Ibrahim* **PID56:** Image processing: obtaining more information from satellite aerosol imagery over West Africa *Moses Emetere, Jennifer Emetere and Modupe Ojewunmi*

Day 2: Wednesday, 25 April 2018

0800 - 1000	**Parallel Session 2:** • **2A: Oil Palm Special Session I** **PID119**: Why do we use remote sensing to study oil palms? *Arthur Cracknell* **PID98**: Supervised machine learning classifiers implementation and evaluation for oil palm FFB quality inspection based on real-time system *Meftah Alfatni and Abdul Rashid Shariff* **PID116**: Identification of mistakes from previous oil palm replanting program using UAV image analysis *Haryati Abidin, Mohd Na'Aim Samad, Mohd Najib Abdul Rasid and Yang Ping Lee* **PID122**: Use of interval partial least squares model to estimate chlorophyll content in CCCVd-inoculated oil palm *Kamlesh Golhani, Siva K Balasundram, Ganesan Vadamalai and Biswajeet Pradhan* **PID124**: Application of advanced world 3D (AW3D) data for designing terrace area of oil palm replanting program *Mohd Na'Aim Samad, Yang Ping Lee, Haryati Abidin, Mohd Najib Abdul Rasid and Abdul Rashid Mohamed Sharif* **PID152**: Application of SAR data for oil palm tree discrimination *Ya Wern Kee, Abdul Rashid Mohamed Shariff, Alias Mohd Sood and Laili Nordin*

PID193: Exploring potential of online 3D visualization of GIS data in coconut plantation management: problems and status
Gonesh Chandra Saha and Ruzinoor Che Mat

PID199: Geospatial modelling of carbon sequestration in palm-tree plantations: a case study from Abu Dhabi
Salem Issa, Taoufik Ksiksi, Nazmi Saleous and Basam Dahy

- **2B: Geospatial II**

PID103: Water resource management using GIS: a case study of Hyderabad City, India
Sudarshan Kandle

PID104: Rainfall variations and its impact on resources - a case study of Hyderabad
Bathula Shrinagesh

PID126: Determining land use change pattern in southern Nigeria: a comparative study
Ngozi Linda Izah, Zulkepli Majid, Mohd Farid Mohd Ariff and Habiba Ibrahim Mohammed.

PID127: Assessment the accessibility of poverty distribution to infrastructure and facilities by using geospatial technology in Perlis State, Malaysia
Mohd Faisal Zaini and Khairul Nizam Abdul Maulud

PID135: Urban growth modelling using cellular automata coupled with land cover indices for Kolkata metropolitan region
Shafia Ahmad, Gaurav Singh and Bharath H. Aithal

PID151: Validation of GPM high resolution data by using bilinear resampling method in different spatial resolution
Noor Emi Fadzilah Ramlan, Mohd Nadzri Md Reba and Mazlan Hashim

PID155: Affordable housing site selection based on local demand projection
Nurul Hana Adi Maimun, Suriatini Ismail, Muhammad Najib Mohamed Razali, Zakri Tarmidi, Junainah Mohamad and Nurul Hazrina Idris

PID165: Land Suitability assessment for growing underutilised crop (Bambara groundnut) in Peninsular Malaysia
Tengku Adhwa Syaherah Tengku Mohd Suhairi, Ebrahim Jahanshiri and Nur Marahaini Mohd Nizar

- **2C: Remote Sensing II**

  PID137: Typhoon Nida's rainfall characteristics in Guangzhou City based on Doppler radar estimation
  Jiayang Zhang and Yangbo Chen

  PID141: Evaluating satellite-derived bathymetry accuracy from sentinel-2a high-resolution multispectral imageries for shallow water hydrographic mapping
  Najhan Md Said, Mohd Razali Mahmud and Rozaimi Che Hasan

  PID166: Flood vulnerability assessment using artificial neural networks in Muar Region, Johor Malaysia
  Ahmad Mubin Wahab and Ahmad Nazri Muhamad Ludin

  PID169: Land cover changes mapping by using high resolution satellites and unmanned aerial vehicle
  Nor Fatin Hanani Jumaat, Baharin Ahmad and Hafsat Saleh Dutsenwai

  PID175: Assessment of river bank erosion at Sungai Kilim Langkawi Using geospatial technique
  Hazamy Mohd Suhaimi, Mohamad Hidayat Jamal and Anuar Ahmad

  PID182: Combination of spatial logistic regression and geographical information systems in modeling wetland changes in Setiu basin, Terengganu.
  Lindah Roziani Jamru and Zullyadini A. Rahaman

  PID197: Technical challenges and potential of airborne LiDAR surveying in Malaysia
  Trudy R Ganendra and Ebrahim Taherzadeh Mobarakeh

  PID203: Evaluation of forest loss in Balikpapan Bay in the end of 2015 based on Sentinel-1A polarimetric analysis
  Milan Lazecky, Stanislav Lhota, Zuzana Pohankova, Petra Wenglarzyova and Neha Joshi

- **2D: Big Data**

  PID196: Projected hydroclimate data analysis using big data analytic (BDA) technology for sustainable water resources planning and decision making
  Mohd Zaki Mat Amin, Khairul Anam Musa and Nurul Huda Md Adnan

	PID8: Urban growth boundary: planning for sustainable urban futures *Narimah Samat and Mohd Amirul Mahmud* **PID73**: Seamless transition of altimetric retracked sea levels using neural network technique: case study using simulated data *Nurzariyatul Syahirah Masrol and Nurul Hazrina Idris* **PID99**: Comparison of pixel-based and object-based image classification techniques in extracting information from UAV imagery data *Hairie Ilkham Sibaruddin and Helmi Zulhaidi Mohd Shafri* **PID114**: Assessing the usability of the NDCDB Checklist with Systematic Usability Scale (SUS) *Nur Zurairah Abdul Halim, Saiful Aman Hj Sulaiman, Kamaluddin Haji Talib and Mohd Noor Isa* **PID148**: Accuracy evaluation of digital terrain model based on different flying altitudes and conditional of terrain using UAV lidar technology *Nursyahira Ahmad Fuad, Zamri Ismail, Zulkepli Majid, Norhadija Darwin, Mohd Farid Mohd Ariff, Khairulnizam M. Idris and Ahmad Razali Yusoff* **PID188**: Change analysis on historical shorelines extracted from medium resolution satellite images: a case study on southern coast of Peninsular Malaysia *Syaifulnizam Abd Manaf and Norwati Mustapha* **PID209**: Enabling the use of geospatial technology *Vishnu Boorla*
1000 – 1100	**Tea break + Poster Presentation**
1100 - 1300	**Parallel Session 3:** • **3A: Oil Palm Special Session II** **PID70**: Integrating radar and optical remote sensing data for effective mapping of oil palm plantation in Malaysia *Kasturi Devi Kanniah, Nazarin Ezzaty Mohd Najib and Arthur Philip Cracknell* **PID42:** Sentinel-2 time series analysis to monitor oil palm plantation extension in Indonesia *Christine Pohl, Bambang Sulistyo, Dominik Schilder, Mohammad Abdel Razak and John L. van Genderen*

PID45: Supporting smallholder oil palm plantation management by open source GIS
Christine Pohl, Bambang Sulistyo, Stefanie Jaehnig, Mohammad Abdel Razak and John van Genderen

PID75: Estimation the age of oil palm based on optical remote sensing image in Landak Regency, West Kalimantan Indonesia
Anggun Tridawati, Soni Darmawan and Armijon

PID82: Synergy of L and C band radar data for estimating aboveground biomass of oil palm in Peninsular Malaysia
Nazarin Ezzaty Mohd Najib, Kasturi Devi Kanniah and Arthur Cracknell.

PID95: A multi-level convolutional neural network based oil palm tree detection method for high-resolution remote sensing images
Weijia Li, Haohuan Fu and Le Yu

PID150: Oil palm bio-physical suitability assessment in Indonesia and Malaysia over 2003-2015
Pegah Hashemvand Khiabani and Wataru Takeuchi

PID184: Flood inundation modelling in oil palm plantation for water management analysis
Siti Hajar Md Nor Azam

- **3B: Application I**

  PID88: Automatic detection of internal wave using particle swarm optimization algorithm
  Maged Marghany

  PID72: Investigating the performance of genetic algorithms selection method in estimating stand-level structural and biophysical variables of lowland dipterocarp forest from LiDAR data
  M A Misman, S Y Yaakub and H Omar

  PID100: Integrated land use planning information system (I-Plan) applications in urban planning and management
  Fadzli Zubi

  PID120: Developing dengue index through the integration of crowdsourcing and variables affecting the dengue vector
  Lyes Mokraoui, Norzailawati Hj Mohd Noor and Alias Abdullah

  PID130: Determination of rubber-tree clones leaf diseases spectral using unmanned aerial vehicle compact sensor
  Hamzah Mohd Ali, Nurmi Rohayu Abd Hamid, Abd Wahid Rasib,

Zarawi Abd Ghani, Ikhsan Mahsuri, Abdul Razak Mohd Yusoff, Othman Zainon, Khairul Nizam M. Idris and Rozilawati Dollah

PID136: Spatiotemporal land use/cover change of central dongguan city in the past 30 years based on remote sensing data
Luying Pan, Yangbo Chen and Tao Zhang

PID164: Site suitability analysis for urban development using GIS based multicriteria evaluation technique: a case study of Chikodi Taluk, Belagavi District, Karnataka, India
Santosh C, Krishnaiah C and Praveen Deshbhandari

PID161: A framework for region based quantitative mapping using hybrid constrained PSO based approach
Vaibhav Lodhi, Debashish Chakravarty and Pabitra Mitra

- **3C: Forestry / Land Cover Mapping**

  PID7: Mapping of utility risk for sewerage system asset management
  Nurshuhada Abd Sukor, Zakri Tarmidi, Noordyana Hassan, Nurul Hana Adi Maimun, Noorsidi Aizuddin Mat Nor and Nurul Syakima Mohd Yusoff

  PID24: Extraction and accuracy assessment of DEMs derived from remotely sensed and field surveying approaches in GIS framework
  Hossein Mojaddadi Rizeei and Biswajeet Pradhan

  PID40: The spatial distribution of "hotspot schools" and the relationship with crime pattern in Mukim Petaling and Klang
  Hasranizam Hashim, Eran Sadek Said Md Sadek and Wan Mohd Naim Wan Mohd

  PID66: Hybrid evaluation of tree parameters measurement using terrestrial laser scanning technique
  Habiba Ibrahim Mohammed, Zulkepli Majid and Ngozi Linda Izah.

  PID111: Evaluating ecosystem services in primary linkage 1 of central forest spine in peninsular Malaysia using invest: preliminary results
  Wan Abdul Hamid Shukri Wan Abdul Rahman, Muhamad Afizzul Misman, Shahrulnizam Kasmani, Hamdan Omar, Wan Mohd Shariffuddin Wan Mohd Ariff and Wan Ahmad Zaky Abd Halim

  PID156: Assessment of coastal inundation area due to sea level rise at the low lying areas
  Fazly Amri Mohd, Khairul Nizam Abdul Maulud, Nor Aslinda

Awang and Mohd Radzi Abdul Hamid

PID198: Tropical deforestation monitoring using NDVI from MODIS satellite: a case study in Pahang, Malaysia
Mohamad Al-Ekhwan Othman, Zulfa Hanan Ash'Aari, Ahmad Zaharin Aris and Mohammad Firuz Ramli

PID60: A design outline of an automatic concentrated pillar for solar farm application in coastal tropic region
Moses Emetere and Wayan Suparta

- **3D: Disaster Management**

  PID18: Modelling of built-up lands expansion in Gaza Strip, Palestine using Landsat data and CA-Markov model
  Husam Attaallah

  PID81: Satellite data for upscalling urban air pollution in Malaysia
  Nurul Amalin Fatihah Kamarul Zaman, Kasturi Devi Kanniah and Dimitris G. Kaskaoutis.

  PID125: Geological and structural analysis using remote sensing for lineament and lithological mapping
  Yamusa Bello Yamusa, Idris Bello Yamusa, Umar Adam Danbatta and Tavershime Najime

  PID132: Spatio-temporal analysis of river morphological changes and erosion detection using very high resolution satellite image
  Norhafizi Mohamad, Mohd Faisal Abdul Khanan, Anuar Ahmad, Ivin Amri Musliman, Wan Hazli Wan Kadir, Muhammad Zulkarnain Abdul Rahman, Mohamad Hidayat Jamal, Muhammad Mun'Im Ahmad Zabidi, Norhaida Mohd Suaib and Rozilawati Md. Zain

  PID162: Spatial analysis of development pressure in the Langat Basin, Selangor, Malaysia
  Nuriah Abd Majid and Ruslan Rainis

  PID172: Flood risk analysis in Sg. Sam, Kuala Krai, Kelantan using remote sensing and GIS technique
  Wani Sofia Udin and Naimah Abd Malek

  PID178: Hyperspectral signature analysis using neural network for grade estimation of copper ore
  Biswajit Manna, Biswajit Samanta, Debashish Chakravarty, Dibyendu Dutta, Ankan Chowdhury, Aditya Santra and Abhijit Banerjee

	PID201: Simulating and monitoring future land-use trends using CA-Markov and LCM models *Maher Aburas, Sabrina Abdullah, Mohammad Ramli and Zulfa Ashaari*
1300 - 1400	**Lunch break**
1400 - 1600	**Parallel session 4:** • **4A: Oil Palm Special Session III, Agriculture and Land Use** **PID106**: Floating fields system for low cost tree and nursery plant production *Rodney Sidloski* **PID63**: Mapping oil palm plantation expansion in Malaysia over the past decade (2007–2016) using ALOS-1/2 PALSAR-1/2 data *Yuqi Cheng, Le Yu, Yidi Xu, Hui Lu, Cracknell Arthur P and Kanniah Kasturi Devi* **PID71**: Dry season analysis using MODIS data for forest and agricultural area in Negeri Sembilan, Malaysia. *Nurul Fatin Musa, Sheriza Mohd Razali, Ahmad Ainuddin Nuruddin and Helmi Shafri* **PID77:** Projections on future impact and vulnerability of climate change towards rubber areas in Peninsular Malaysia *Mohd Hafiz Mohd Hazir, Radhiah Abdul Kadir, Yahya Abd Karim* **PID112**: Rice crop monitoring using multirotor UAV and RGB digital camera at early stage of growth *Nik Norasma Che Ya, Mohd Yazid Abu Sari, Fadzilah Md Azali, Mohd Razi Ismail, Mohd Husni Omar, Zulkarami Berahim, Yana Mazwin Mohmad Hassim and Mohammad Zakri Tarmidi* **PID123**: A deforestation alert system for Sabah based on Google Earth Engine *Martin Beland, Pauline Perbet, Anouk Ville and Michelle Fortin* **PID140:** Application of Sentinel-1 satellite to identify oil palm plantations in Balikpapan Bay *Milan Lazecky, Stanislav Lhota, Tomas Penaz and Diana Klushina* **PID202**: Measuring and predicting urban growth patterns and trends in Putrajaya, Malaysia *Haitem Almdhun, Shadi Mallak and Maher Aburas*

- **4B: Applications II**

  PID149: Selection of seismic station site using geographical information systems (GIS)
  Mohamad Abd Manap

  PID39: Geo-fence for bus destination alarm mobile application
  Mohd Asraf Ayob, Mohammad Nabil Fikri Saaid, Khoiri Mohd Dimyati and Khairul Anuar Maarof

  PID102: Application of GIS in socio-economic analysis of Peddapalli district, Telangana State, India
  Sadanandam Gorla

  PID138: Development of water quality modelling using InfoWork River Simulation in Malacca River, Malaysia and contribution towards total maximum daily load approach
  Siti Aisyah Che Osmi, Wan Mohd Faizal Wan Ishak, Mohammad Adam Azman, Abdullah Siddiqi Ismail and Nurlin Abu Samah

  PID139: Recent assessment of physico-chemical water quality in Malacca River using water quality index and statistical analysis
  Siti Aisyah Che Osmi, Wan Mohd Faizal Wan Ishak, Mohammad Adam Azman, Abdullah Siddiqi Ismail and Nurlin Abu Samah

  PID159: Effect of competing landuse practices on Chakaria Sundarbans mangrove in Bangladesh using Landsat imagery
  Husni Mobarak Prince, Mohammed Oludare Idrees, Helmi Zulhaidi Mohd Shafri, Mehedi Iqbal, Zaheer Iqbal and Tariq Aziz

  PID170: Utilization of remote sensing and GIS to identify radius of urban cool island for planning open green area in urban area (case study Yogyakarta)
  Intan Lestari and Isnia Nur Cahya Dewi

  PID179: Application of chaotic approach in forecasting highland's temperature time series
  Nor Zila Abd Hamid

- **4C: Environmental Monitoring**

  PID16: Physical waters suitability for floating net cages cultivation mapping using Landsat 8 OLI and Worldview-2 imagery in part of Hurun Bay, Bandar Lampung Province, Indonesia
  Wirastuti Widyatmanti, Andiyanti Putri Estigade, Ariani Puji Astuti, Arief Wicaksono, Dea Nadia, Mousafi Dimas Afrizal, Muhammad Hilmy Azis and Tika Maitela

PID25: Correlation-based feature optimization and object-based approach for distinguishing shallow and deep-seated landslides using high resolution airborne laser scanning data
Mustafa Ridha Mezaal and Biswajeet Pradhan.

PID44: Relationship analysis of environmental factor change on the evidence of dengue fever diseases using image transformation (case study: Surakarta City)
Prima Widayani, Risky Yanuar Setiyono and Aulia Yogi Hastuti

PID64: Mapping of Lotus distributions using Sentinel-2 satellite imagery in Tasik Chini
Mohd Azahari Faidi, Mohd Ghazali Hasan and Siti Aisah Shamsuddin

PID131: Map-learning for indoor and outdoor map-building
Hafiz Iman and Raisuddin Khan

PID133: Significant wave height assessment using multi mission satellite altimeter over Malaysian seas
Mat Nizam Uti, Ami Hassan Md Din and Omar Yaakob

PID183: Large scale topographic mapping based on unmanned aerial vehicle and aerial photogrammetric technique
Mohd Juraidi Ahmad and Anuar Ahmad

PID206: 3D rock slope data acquisition by photogrammetry approach and extraction of geological planes using FACET plugin in cloudcompare
Wen Yan Tung, Sharan Kumar Nagendran and Mohd Ashraf Mohamad Ismail

- **4D: Land Use/Urban and Others**

  PID134: Tourism information system of South West Khasi Hills District, Meghalaya, India
  Mardrella Kharmawphlang and Jenita Nongkynrih

  PID145: Exploration on image classifications abilities in identification of flowering trees in urban park
  Nurul Farehah Mahzan, Noordyana Hassan, Mazlan Hashim and Mohammad Zakri Tarmidi

  PID168: Land use/land cover mapping for conservation of UNESCO Global Geopark using object and pixel-based approaches
  Mohd Khairul Abdullah Halim, Anuar Ahmad, Muhamad Zulkarnain Abdul Rahman, Zulkarnaini Mat Amin, Wan Hazli

	Wan Kadir, Ivin Amri Musliman, Mohd Faisal Abdul Khanan, Mohamad Hidayat Jamal, Ahmad Khairi Wahab, Daeng Siti Maimunah Ishak, Munim Zabidi, Norhaida Mohd Suaib and Rozilawati Md Zain
	PID68: Collaboration for enabling coastal geospatial data sharing: a review *Mohd Adly Rosly, Anuar Ahmad and Zakri Tarmidi*
	PID107: A review of advancement of hydrographic surveying towards ellipsoidal referenced surveying technique *Mohammad Hanif Hamden and Ami Hassan Md Din*
	PID128: Vertical land motion quantification using space-based geodetic methods: a review *Nur Adilla Zulkifli, Ami Hassan Md Din and Zainal Abidin Md Som*
	PID163: Implications of implementing urban growth limit policy for managing urbanisation: a review *Muhammad Azizol Ismail, Ahmad Nazri Muhamad Ludin and Nafisa Hosni*
	PID187: Multi-resolution remote sensing data in landslide activity inventory mapping: A review *Mohd Radhie Mohd Salleh, Muhammad Zulkarnain Abd Rahman, Zamri Ismail, Mohd Faisal Abdul Khanan and Khamarrul Azahari Razak*

Poster presentation

1. Poster size is A0 (841 x 1189 mm) and with the structure: Title, Author(s), Affiliation, Abstract, Introduction, Methodology, Results and Discussion, Conclusion, Acknowledgements, and References
2. Presenters are standby for presentation at 10:00 - 11:00 on 25 April 2018
3. Put your poster on 24 April 2018 at 09:00 MYT in the space provided
4. Posters are printed by authors itself
5. Full paper presented in posters is the same level of publication in the IOP EES.

List of paper/abstract presented in poster:

No.	Paper ID	Paper Title and Author
1	**PID43**	Position navigation system for autonomous unmanned ground vehicles in the real environment *Petr Stodola, Jan Mazal and Marian Rybansky*
2	**PID47**	A review on statistical analysis of geographical weighted regression *Nur Edayu Zaini and Syerrina Zakaria*

3	**PID48**	The impact of drainage on terrain UGV movement *Marian Rybansky, Filip Dohnal and Sarka Hoskova-Mayerova*
4	**PID50**	Integrating satellite temporal analysis for urban morphology study in Melaka *Marina Mohd Nor and Norzailawati Mohd Noor*
5	**PID52**	Method of developing the maps of passability for unmanned ground vehicles *Krzysztof Pokonieczny and Marian Rybansky*
6	**PID54**	Current state of air pollution in Bussau-Guinea Bussau: a diagnostic approach *Moses Emetere, Agarana Michael and Wayan Suparta*
7	**PID55**	Assessment of air pollution in the atmosphere of Warri-Nigeria *Moses Emetere, Jennifer Emetere, Sayo Akinwunmi and Wayan Suparta*
8	**PID57**	Current estimation of aerosols loading in the atmosphere of Conakry-Guinea *Moses Emetere, A. Akinsiku and Wayan Suparta*
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16	**PID108**	The extraction of urban road inventory from mobile lidar system *Tee-Ann Teo*
17	**PID118**	Classification for non infected and infected ganoderma boninense of oil palm trees using Alos palsar-2 backscattering coefficient *Izrahayu Che Hashim, Abdul Rashid Mohamed Shariff, Siti Khairunniza Bejo, Farrah Melissa Muharam and Khairulmazmi*

		Ahmad
18	**PID204**	Mapping of smallholder oil palm plantation and development of a growth model *Beni Okarda, Ita Carolita, Tatik Kartika and Heru Komarudin*
19	**PID210**	Estimation of soil loss in Seremban, Malaysia using GIS and remote sensing technique *Goma B Ahmed, A R M Shariff, S K Balasundram and A F B Abdullah*