



**International Graduate Conference on Energy, Engineering & Technology 2018 (iGRAD2018)**  
**Parallel Session 1 Schedule**  
**Conference Day 1**  
**5 September 2018, Wednesday**

Parallel Session 1A - Energy and Environment				
Date / Day : 5 September 2018, Wednesday				
Time : 0900 - 1030				
Venue : STOCKHOLM (BA-4-048), Level 4, Administration Building, UNITEN Putrajaya Campus				
	Paper ID	Track	Author	Paper Title
1A1	11	ENERGY & ENVIRONMENT	Abbas Al-Ghaili, Hairoladenan Kasim, Marini Othman and Zainuddin Hassan	A review on building energy efficiency techniques
1A2	27	ENERGY & ENVIRONMENT	Arun Seeralan Balakrishnan, Farrukh Nagi, Khairul Salleh and Prem Gunnasegaran	HEAT ENERGY HARVESTING WITH TEG - HEAT PIPE SYSTEM FROM EXHAUST OF AUTOMOBILE ENGINE
1A3	30	ENERGY & ENVIRONMENT	Zainab Alsidairi	The Prediction of Energy Consumption Using Multivariate Regression and Artificial Neural Network Models: Transport in the GCC
1A4	36	ENERGY & ENVIRONMENT	Khairunnisa Kamarul Zaman, Vekes Balasundram, Norazana Ibrahim, Mohammad Dinie Muhaimin Samsudin, Rafiziana Md. Kasmani, Mohd Kamaruddin Abd Hamid and Hasrinah Hasbullah	Effect of Particle Size and Temperature on Pyrolysis of Palm Kernel Shell
1A5	41	ENERGY & ENVIRONMENT	Alamer Gadah and Dr Zainon Mat Sharif	Malaysia Environment and Atmosphere with Arab Tourist Loyalty and Satisfaction
1A6	44	ENERGY & ENVIRONMENT	Suganthi Yeesparan, Mohd Zafri Baharuddin, Norashidah Md Din and Mohamad Halil Harun	A Review of Energy Harvesting Methods for Power Transmission Line Monitoring Sensors

**Parallel Session 1B - Electronics & Computing Technology**

Date / Day : 5 September 2018, Wednesday

Time : 0900 - 1030

Venue : BARCELONA (BA-4-049), Level 4, Administration Building, UNITEN Putrajaya Campus

	Paper ID	Track	Author	Paper Title
1B1	9	ELECTRONICS & COMPUTING TECHNOLOGY	Joseph Jesawanth Jesawanth Singh, Nanthiine Nair Ravi and Prajindra Sankar Krishnan	IOT BASED PARKING SENSOR NETWORK FOR SMART CAMPUS
1B2	21	ELECTRONICS & COMPUTING TECHNOLOGY	Suthashini Subramaniam and Jaspaljeet Singh Ranjit Singh	Assessing the Usability of a Prediabetes Self-care Application: A Multi-Method Approach
1B3	40	ELECTRONICS & COMPUTING TECHNOLOGY	Gamal Alkawsii and Nor'ashikin Bte. Ali	A systematic review of factors influencing individuals' acceptance of Internet of things
1B4	62	ELECTRONICS & COMPUTING TECHNOLOGY	Aiman Ismail, Hazwani Mohammad Helmi, Md Zaini Jamaludin, Pin Jern Ker, Fairuz Abdullah and Abdul Hadi Sulaiman	Erbium-doped fiber amplification assisted multi-wavelength Brillouin-Raman fiber laser
1B5	63	ELECTRONICS & COMPUTING TECHNOLOGY	Soon Eng Lim, Rozita Bte Ismail, Wahidah Binti Hashim, Rajina Binti M A Raj Mohamed and Aslina Baharum	Vegetation monitoring using UAV : A preliminary study
1B6	82	ELECTRONICS & COMPUTING TECHNOLOGY	Javid Iqbal, Manjit Singh Sidu and Mutahir Mohamed Ariff	An AR oriented pose matching mechanism from motion capture data

**Parallel Session 1C - Electrical Engineering & Electronics and Computing Technology****Date / Day : 5 September 2018, Wednesday****Time : 0900 - 1030****Venue : BERLIN (BA-4-050), Level 4, Administration Building, UNITEN Putrajaya Campus**

	Paper ID	Track	Author	Paper Title
1C1	122	ELECTRICAL ENGINEERING	Nuraina Syahira Mohd Sharifuddin, Nadia Tan Mei Lin and Hirofumi Akagi	Low-load Efficiency Improvement of a Three-Phase Bidirectional Isolated DC-DC Converter (3P-BIDC) Via Enhanced Switching Strategy
1C2	127	ELECTRICAL ENGINEERING	Muhamad Ikmal Iman Mohd Rofidi, Mohd Firdaus Roslan, Ker Pin Jern and M A Hannan	An Intelligent Maximum Power Point Tracking Algorithm For Photovoltaic System
1C3	164	ELECTRONICS & COMPUTING TECHNOLOGY	Noura Mohamad Ghazali and Zainuddin Hasan	CRITICAL SUCCESS FACTORS OF IT/IS OUTSOURCING IN THE MALAYSIAN PUBLIC SECTORS
1C4	166	ELECTRONICS & COMPUTING TECHNOLOGY	Badariah Solemon and Wan Muhammad Luqman Wan Abu Bakar	Factors Motivating the Public to Participate in Crowdsourcing of Crime Information
1C5	168	ELECTRONICS & COMPUTING TECHNOLOGY	Norhafizah Hanzah and Hidayah Sulaiman	An empirical analysis of social dimension factors towards better IT Service Quality for Malaysian Public Agencies
1C6	160	ELECTRONICS & COMPUTING TECHNOLOGY	Mahdi All Khamis, Emilin W. Rashid, Ker Pin Jern and Lau Kuen Yao	Effect of Multiplication and Absorption Layers Width on Avalanche Multiplication Gain in InGaAs/InP Avalanche Photodiode

**Parallel Session 1D - Civil Engineering**  
**Date / Day : 5 September 2018, Wednesday**  
**Time : 0900 - 1030**  
**Venue : AMSTERDAM (BA-4-051), Level 4, Administration Building, UNITEN Putrajaya Campus**

	Paper ID	Track	Author	Paper Title
1D1	6	CIVIL ENGINEERING	Helmi A Halim and Gasim Hayder	Operational Noise Assessment in an Open Cycle Power Plant: Study on The Existing Acoustical Performance
1D2	8	CIVIL ENGINEERING	Gasim Hayder, Puniyarasen Perumuselum and Hitham Alhussian	Treatment of Domestic Wastewater with Fixed Bed Biofilm Reactor
1D3	14	CIVIL ENGINEERING	Ean Lee Woen, Marlinda Abdul Malek, Bashar S. Mohammed, Tang Chao-Wei and Pricilla Bong Xin Hu	A review on characterization of sediments for green bricks production
1D4	17	CIVIL ENGINEERING	Priscilla Xin Hu Bong, Marlinda Abdul Malek and Zainura Zainon Noor	A Review on Water Footprint Assessment and Water-Food-Energy Nexus for Electronic and Food Products
1D5	20	CIVIL ENGINEERING	Azhani Zukri, Ramli Nazir and Ng Kok Shien	Settlement Prediction of a Group of Light Weight Aggregate (LECA) Columns Using Finite Element Modelling
1D6	23	CIVIL ENGINEERING	Peng Eng Kiat, Marlinda Malek, Azimah Bahrum and Tan Ching Sin	Greenhouse Gas (GHG) emission estimation from cropland remaining cropland in AFOLU sector for various districts in Sarawak

**Parallel Session 1E - Industrial Science****Date / Day : 5 September 2018, Wednesday****Time : 0900 - 1030****Venue : VIENNA (BA-4-024), Level 4, Administration Building, UNITEN Putrajaya Campus**

	Paper ID	Track	Author	Paper Title
1E1	7	INDUSTRIAL SCIENCE	Tan Yeong Hwang, Chai Mee Kin and Wong Ling Shing	The effects of parameters on the efficiency of DLLME in ex-tracting PAHs from vegetable samples
1E2	61	INDUSTRIAL SCIENCE	Siti Humaira Haron, Lariyah Mohd Sidek and Ismail Sahid	Heavy metal distribution and accumulation at the Bertam Agri-cultural Watershed in Cameron Highlands, Malaysia
1E3	95	INDUSTRIAL SCIENCE	Shamala Gowri Krishnan, Fei Ling Pua, Kumaran Palanisamy, Sharifah Nabihah Syed Jaafar and Koguleshun Subramaniam	Oil Palm Empty Fruit Bunches Fiber Supported Heterogeneous Acid Catalyst for Esterification of Oleic Acid: Effect of Different Transition Metal Sulfate
1E4	154	INDUSTRIAL SCIENCE	Sheau Huey Loo, Kim Kiat Liaw and Shyh-Zung Lo	Integrated Approach to Delineate Meandering Channel Sands as Potential Stratigraphic Traps
1E5	213	INDUSTRIAL SCIENCE	Nurshahira Mohammad Noh, Lariyah Mohd Sidek, Siti Humaira Haron, Amirah Hanim Ahmad Puad and Zalilah Selamat	Pollutant Loading Analysis of Suspended Solid, Nitrogen and Phosphorus at Cameron Highlands using Model of Urban Stormwater Improvement Conceptualization
1E6	231	INDUSTRIAL SCIENCE	Nurul Jannah Jalil and Zainon Mat Sharif	Factors Affected the Awareness of Biodiversity Conservation Among Students in Malaysia
1E7	211	INDUSTRIAL SCIENCE	Komathy Selvaraj, Lariyah Mohd Sidek, Megat Johari Megat Mohd Noor, Pramila Tamunaidu and Masafumi Goto	Alternative Approach to Conventional River Water Treatment Using Natural Coagulant

**Parallel Session 1F - Mechanical Engineering****Date / Day : 5 September 2018, Wednesday****Time : 0900 - 1030****Venue : PARIS (BA-4-027), Level 4, Administration Building, UNITEN Putrajaya Campus**

	Paper ID	Track	Author	Paper Title
1F1	3	MECHANICAL ENGINEERING	Sami Salama Hussen Hajjaj and Ahmad Faizuddin Bin Ahmad Nazri	Simulated Analysis and Review of Ocean Wave Power Generators
1F2	4	MECHANICAL ENGINEERING	Sami Salama Hussen Hajjaj and Ilyas Bin Khalid	Design and Development of an Inspection Robot for Oil and Gas Applications
1F3	19	MECHANICAL ENGINEERING	Nur Athirah Abdul Razak, Dr. Asma' Abu-Samah, Dr. Normy Norfiza Abdul Razak, Saliza Baharudin, Dr. Fatanah Mohamad Suhaimi, Dr. Ummu Kulthum Jamaludin, Dr. Azrina Ralib and Prof. Dato' Dr. Mohd Basri Mat-Nor	Virtual Trial of Glycaemic Control Performance and Nursing Workload Assessment in Diabetic Critically-Ill Patients
1F4	92	MECHANICAL ENGINEERING	Hasril Hasini and Farid Akmal Saipul Bahri	Flow And Heat Dissipation Analysis In Transformer Substation With Minimal Ventilation Using CFD
1F5	43	MECHANICAL ENGINEERING	Nur Irmawati, Rozli Zulkifli and Prem Gunnasegaran	The effect of various nanofluid types on heat transfer and fluid flow characteristics of liquid cold plate
1F6	53	MECHANICAL ENGINEERING	Wahaizad Safiei, Md Mustafizur Rahman and Siti Aishah Rusdan	Experimental Investigation of MQL Optimum Parameters In End Milling of AA6061-T6 Using Taguchi Method



**International Graduate Conference on Energy, Engineering & Technology 2018 (iGRAD2018)**  
**Parallel Session 2 Schedule**  
**Conference Day 1**  
**5 September 2018, Wednesday**

Parallel Session 2A - Energy and Environment				
Date / Day : 5 September 2018, Wednesday				
Time : 1130 - 1300				
Venue : STOCKHOLM (BA-4-048), Level 4, Administration Building, UNITEN Putrajaya Campus				
	Paper ID	Track	Author	Paper Title
2A1	47	ENERGY & ENVIRONMENT	Mohd Redwan Rosli, Michael Poppelreiter and Siti Nur Fathiyah Jamaludin	A REVIEW OF STRATIGRAPHIC FORWARD MODELS (SFM) FOR CARBONATE PLATFORM
2A2	56	ENERGY & ENVIRONMENT	Norhayati Mat Husin, Azrinawati Mohd Remali and Bakhtiar Alrazi	Biodiversity reporting among Malaysian companies: Does the risk level matter?
2A3	73	ENERGY & ENVIRONMENT	Waraporn Rattanongphisat and Anantachai Suwannakom	The analysis of outdoor climate, moist air enthalpy and their relation to cooling energy consumption in the tropics
2A4	75	ENERGY & ENVIRONMENT	Nursuhaila Rosli and Hassan Mohamed	Experimental study on the use of thermoelectric generators in harvesting human body heat
2A5	108	ENERGY & ENVIRONMENT	Ai Chia Khor, Mohd Ruslim Mohamed, Kwok Feng Chong, Hadi Manap and Puiki Leung	Electrochemical Studies on Alizarin Red S as Negolyte for Re-dox Flow Battery: A Preliminary Study
2A6	114	ENERGY & ENVIRONMENT	Endang Sahid	Energy Security in Malaysia: a quantitative analysis

**Parallel Session 2B - Electronics & Computing Technology**

Date / Day : 5 September 2018, Wednesday

Time : 1130 - 1300

Venue : BARCELONA (BA-4-049), Level 4, Administration Building, UNITEN Putrajaya Campus

	Paper ID	Track	Author	Paper Title
2B1	68	ELECTRONICS & COMPUTING TECHNOLOGY	Khairol Amin Mohd Salleh, Abdul Rahim Ahmad and Roslan Ismail	Preventing Stack Overflow Using Alternative Stack
2B2	77	ELECTRONICS & COMPUTING TECHNOLOGY	Mohammed Mahdi, Abdul Rahim Ahmad and Roslan Ismail	Evaluating Search Results in Exploratory Search
2B3	87	ELECTRONICS & COMPUTING TECHNOLOGY	Norliza Binti Sidek, Nor' Ashikin Binti Ali and Romzie Bin Rosman	Wireless Communication: A Conceptual Model of IoT Services Success for Government Agencies
2B4	90	ELECTRONICS & COMPUTING TECHNOLOGY	Gopinath Muruti, Fiza Abdul Rahim and Zul Azri Bin Ibrahim	Digital forensics challenges in big data environment: A Review
2B5	103	ELECTRONICS & COMPUTING TECHNOLOGY	Chong Tak Yaw, Shen Yuong Wong, Keem Siah Yap and Chin Hooi Tan	Extreme Learning Machine Neural Networks for Multi-Agent System in Power Generation
2B6	106	ELECTRONICS & COMPUTING TECHNOLOGY	Shen Yuong Wong, Keem Siah Yap and Xiaochao Li	A Genetic Algorithm Based Fuzzy Inference System for Pattern Classification and Rule Extraction



**Parallel Session 2C - Electronics & Computing Technology****Date / Day : 5 September 2018, Wednesday****Time : 1130 - 1300****Venue : BERLIN (BA-4-050), Level 4, Administration Building, UNITEN Putrajaya Campus**

	Paper ID	Track	Author	Paper Title
2C1	182	ELECTRONICS & COMPUTING TECHNOLOGY	Norhazilah Mahat and Nor'ashikin Ali	Empowering Employees Through BYOD: Benefits and Challenges
2C2	183	ELECTRONICS & COMPUTING TECHNOLOGY	Rosazlina Mohd Adzmi and Zainuddin Hassan	A theoretical framework of Critical Success Factors on Information Technology Project Management during Project Planning
2C3	214	ELECTRONICS & COMPUTING TECHNOLOGY	Hariaty Mohd Idrus and Nor'Ashikin Ali	Towards Development of Software Testing Competency Framework to Empower Software Testers' Profession
2C4	215	ELECTRONICS & COMPUTING TECHNOLOGY	Che Munira Che Razali, Shahrum Shah Abdullah, Shamsul Faisal Mohd Hussein and Nolia Harudin	Estimation of Building Energy Efficiency Performance Using Radial Basis Function Neural Network
2C5	226	ELECTRONICS & COMPUTING TECHNOLOGY	Nur Afiqah Mohammad Ishak, Nurazariah Abidin and Jegatheesan Rajadurai	New Wave of Businesses: Brick To Click Approach in Malaysia
2C6	104	ELECTRONICS & COMPUTING TECHNOLOGY	Hani Al-Bloush and Badariah Solemon	An Analysis of Intellectual Property Challenges in Crowdsourcing Platforms for Software Engineering

**Parallel Session 2D - Civil Engineering****Date / Day : 5 September 2018, Wednesday****Time : 1130 - 1300****Venue : AMSTERDAM (BA-4-051), Level 4, Administration Building, UNITEN Putrajaya Campus**

	Paper ID	Track	Author	Paper Title
2D1	24	CIVIL ENGINEERING	Nurul Natasha Nabila Naim, Nurul Hani Mardi and Marlinda Abdul Malek	Review of year 2004 Sumatra-Andaman earthquake tsunami fault parameters
2D2	25	CIVIL ENGINEERING	Harizah Haris, Ming Fai Chow and Lariyah Mohd Sidek	Effect of temperature on nutrient removal of water hyacinth plant
2D3	29	CIVIL ENGINEERING	Fatin Faiqa Norkhairi, Sivadass Thiruchelvam and Hasril Hasini	Methods to Estimates Loss of Life from Floods due to Dam Failure
2D4	37	CIVIL ENGINEERING	Mohammed Elhaj Alsoufi Mohammed Ahmed and Leong Sing Wong	Assessment of lean construction practice at selected construction sites in Klang Valley
2D5	39	CIVIL ENGINEERING	Wong Jia Mang, Abdul Ghani Md Rafek and Goh Thian Lai	Issues in engineering geological classification of weathered sedimentary rocks: case study of Kati Formation, Parit, Perak
2D6	48	CIVIL ENGINEERING	Wan Norsyuhada Che Wan Zaniel, Marlinda Abdul Malek and Mohd Nadzri Md Reba	A review on rainfall runoff simulation at ungauged catchment.

**Parallel Session 2E - Energy & Environment and Mechanical Engineering**

Date / Day : 5 September 2018, Wednesday

Time : 1130 - 1300

Venue : VIENNA (BA-4-024), Level 4, Administration Building, UNITEN Putrajaya Campus

	Paper ID	Track	Author	Paper Title
2 E1	241	ENERGY & ENVIRONMENT	Amar Hisham Jaaffar	Preventing Accidents from Reoccurring due to Colour Coding Transition in Malaysian Market: A Stakeholder Analysis
2 E2	244	ENERGY & ENVIRONMENT	Aishah Mohd Isa, Mohd Eqwan Roslan and Siti Fatimah Salleh	Residential Energy Efficiency: Benefits of Minimum Energy Performance Standard (MEPS) Implementation for Television in Malaysia
2E3	217	MECHANICAL ENGINEERING	Syed Zainal Abidin Syed Kamarul Bahrin and Khairul Salleh Mohamed Sahari	Initial Development of a Master-Slave Controller for a Five-Fingered Robotic Hand Design by Using Pressure Sensors Comparator Technique
2E4	220	MECHANICAL ENGINEERING	Gopinathan Muthaiyah and Kumaran Palanisamy	Evaluation of Atomization Characteristics of Second Generation Biodiesel Using Air Blast Atomizer
2E5	232	MECHANICAL ENGINEERING	Saiful Hasmady and Kazuyoshi Fushinobu	Numerical investigation on surface coverage of weakly-adsorbed molecular SO <sub>2</sub> contaminant in a PEM fuel cell cathode

**Parallel Session 2F - Mechanical Engineering****Date / Day : 5 September 2018, Wednesday****Time : 1130 - 1300****Venue : PARIS (BA-4-027), Level 4, Administration Building, UNITEN Putrajaya Campus**

	Paper ID	Track	Author	Paper Title
2F1	54	MECHANICAL ENGINEERING	Mei Yin Ong, Bello Salman, Nor-Insyirah Sal, Refal Hussein and Saifuddin Nomanbhay	A preliminary experiment, thermal analysis (TGA & DSC), of non-catalytic transesterification from palm oil
2F2	55	MECHANICAL ENGINEERING	Abdullah Nasih Mohd Noor and Vignesh Vicki Wanatasanappan	Effect of Epoxy/Al <sub>2</sub> O <sub>3</sub> /CeO <sub>2</sub> coating on corrosion rate and mechanical properties of mild steel
2F3	57	MECHANICAL ENGINEERING	Muhammad Zufar Ahmad Faudzli, Prem Gunnasegaran and Ng Khai Ching	Numerical study on the effects of using nanofluids in pulsating heat pipe
2F4	74	MECHANICAL ENGINEERING	Muhammad Asyraf Muhammad Rizal, Che Nor Aiza Jaafar and Ismail Zainol	Effect of Kenaf Alkalization Treatment on Morphological and Mechanical Properties of Epoxy/Silica/Kenaf Composite
2F5	80	MECHANICAL ENGINEERING	Nirvenesh Ravindran and Hassan Mohamed	An Initial Study into the Development of Visual Aid for Monocular Visual Impaired Patients
2F6	89	MECHANICAL ENGINEERING	Hasril Hasini and Nirvenesh Ravindran	Experimental analysis of SMART scrubbing system with the principle of dynamic precipitation



**International Graduate Conference on Energy, Engineering & Technology 2018 (iGRAD2018)**  
**Parallel Session 3 Schedule**  
**Conference Day 2**  
**6 September 2018, Thursday**

Parallel Session 3A - Energy and Environment				
Date / Day : 6 September 2018, Thursday				
Time : 0900 - 1030				
Venue : STOCKHOLM (BA-4-048), Level 4, Administration Building, UNITEN Putrajaya Campus				
	Paper ID	Track	Author	Paper Title
3A1	118	ENERGY & ENVIRONMENT	Nurul Fateha Abd Kadir, Hassan Mohamed and Abreeza Noorlina Abd Manap	A Computational and Experimental Study of A Small Scale Flat-Shaped Vertical Axis Wind Turbine
3A2	120	ENERGY & ENVIRONMENT	Waleed Alhyasat, Zainon Sharif and Khaled Alhyasat	The Mediating Effect of Eco-Innovation between Motivation and Organization Performance in Jordan Industrial Estates Company in Jordan
3A3	125	ENERGY & ENVIRONMENT	Renuga Verayiah and Sivasanghari Karunakaran	Criteria for Green School Model Development in Malaysia
3A4	129	ENERGY & ENVIRONMENT	Nur Shakirah Md Salleh	Preliminary Study on Youth Lifestyle with regards to Energy Saving
3A5	133	ENERGY & ENVIRONMENT	Mugheelashan Verasamy, Mohammad Faisal, Ker Pin Jern and M A Hannan	An Intelligent Battery Energy Management for Electric Vehicle Application
3A6	134	ENERGY & ENVIRONMENT	Amirul Ashraf, Mohammad Faisal, Khadija Parvin, Ker Pin Jern and M A Hannan	Smart meter model for home energy Management system

**Parallel Session 3B - Electronics & Computing Technology****Date / Day : 6 September 2018, Thursday****Time : 0900 - 1030****Venue : BARCELONA (BA-4-049), Level 4, Administration Building, UNITEN Putrajaya Campus**

	Paper ID	Track	Author	Paper Title
3B1	173	ELECTRONICS & COMPUTING TECHNOLOGY	Hidayah Sulaiman, Asma Maghaireh and Rohaini Ramli	Adoption of Cloud-Based E-Health Record through the Technology, Organization and Environment perspective
3B2	107	ELECTRONICS & COMPUTING TECHNOLOGY	Nor Azizah Ahmad, Sulfeeza Mohd. Drus, Nur Azaliah Abu Bakar and Mohd Muneer Othman	A Systematic Review of Enterprise Architecture Adoption Models
3B3	109	ELECTRONICS & COMPUTING TECHNOLOGY	Hasan Sari and Marini Othman	Factors Affecting Participants' Knowledge-Sharing Behaviors In Online Communities: A Systematic Review
3B4	115	ELECTRONICS & COMPUTING TECHNOLOGY	Siti Husna Abdul Rahman Suliman, Wahidah Hashim, Ahmad Fadzil Ismail, Mohd Azman Zakariya, Amirul Shafiq Yahya and Suhaimi Sauti	Measurements of Mobile Signal Received Power Level at Ringlet, Cameron Highland, Malaysia
3B5	117	ELECTRONICS & COMPUTING TECHNOLOGY	Ahmed Al-Haiqi, Ammar Alkahtani, Farah Nordin and Mohd Zafri Baharuddin	A new approach for privacy-aware smart metering using the concept of software defined networking
3B6	124	ELECTRONICS & COMPUTING TECHNOLOGY	Mohammad Azmi Ridwan, Nurul Asyikin Radzi, Wan Siti Halimatul Munirah Wan Ahmad, Intan Shafinaz Mustafa, Norashidah Md Din, Yanti Erana Jalil, Aishah Mohd Isa and Noor Shamsiah Othman	Applications of Landsat-8 data: A review

**Parallel Session 3C - Electronics and Computing Technology & Civil Engineering**

Date / Day : 6 September 2018, Thursday

Time : 0900 - 1030

Venue : BERLIN (BA-4-050), Level 4, Administration Building, UNITEN Putrajaya Campus

	Paper ID	Track	Author	Paper Title
3C1	229	ELECTRONICS & COMPUTING TECHNOLOGY	Tiagrajah V Janahiraman and Muhammad Hazwan Harun	Power Quality Disturbances Classification using Wavelet Transform and Support Vector Machine
3C2	230	ELECTRONICS & COMPUTING TECHNOLOGY	Pritheega Magalingam, Ganthan Narayana Samy, Nurazeen Maarop, Wan Nazirul Hafeez Wan Safie, Muhammad Khairul Rijal, Yee Fang Lim, Abdullah Sakib and Muhammad Yassin	Exploratory Experiment on Co-authorship Network using Social Network Analysis Metrics and Measures
3C3	100	CIVIL ENGINEERING	Siti Asmahani Saad, Nasir Shafiq, Maisarah Ali and Mariana Mohamed Osman	Analysis by Means of Surface Response to Chemical Composition and Pozzolanic Reactivity of Ultrafine Treated Rice Husk Ash (UFTRHA) as Cementing Additive Material
3C4	110	CIVIL ENGINEERING	Md Shabbir Hossain, Lariyah Bte Mohd Sidek, Mohd Hafiz Zawawi and Mohammad Marufuzzaman	PASSIVE CONGREGATION THEORY FOR PARTICLE SWARM OPTIMIZATION (PSO): AN APPLICATION IN RESERVOIR SYSTEM OPERATION
3C5	111	CIVIL ENGINEERING	Siti Asmahani Saad, Nasir Shafiq, Mariana Mohamed Osman and Siti Aliyyah Masjuki	Compressive Strength and Microstructure Analysis of Treated Rice Husk Ash (TRHA) Incorporated Mortar
3C6	119	CIVIL ENGINEERING	Khairi Supar and Hilton Ahmad	Three-dimensional Stress Analysis Study on Multi-Bolted Joints of Composite Plates

**Parallel Session 3D - Civil Engineering****Date / Day : 6 September 2018, Thursday****Time : 0900 - 1030****Venue : AMSTERDAM (BA-4-051), Level 4, Administration Building, UNITEN Putrajaya Campus**

	Paper ID	Track	Author	Paper Title
3D1	49	CIVIL ENGINEERING	Intan Nor Zuliana Baharuddin, Hairin Taha, Rohayu Che Omar, Rasyikin Roslan, Faten Syaira Buslima and Khairul Rizal Zulkafli	Evaluation of Vege-Grout Treated Slope by Electrical Resistivity
3D2	50	CIVIL ENGINEERING	Rohayu Che Omar, Intan Nor Zuliana Baharuddin, Hairin Taha, Rasyikin Roslan, Nor Hazwani Nor Khalid and Muzad Mohd Fared	Slope Stability Analysis of Granitic Residual Soil Using SLOPE/W, Resistivity and Seismic
3D3	51	CIVIL ENGINEERING	Nor Hazwani Nor Khalid, Fathoni Usman, Rohayu Che Omar and Azwil Zailti Abd Razad	Response of Groundwater and Soil Displacement at Slope of Electric Transmission Tower Due to Rainfall Events
3D4	52	CIVIL ENGINEERING	Nur Syazwani Noor Rodi, Marlinda Abd Malek and Amelia Ritahani Ismail	Monthly rainfall prediction model of Peninsular Malaysia using Clonal Selection Algorithm
3D5	59	CIVIL ENGINEERING	Nurul Sa'Aadah Sulaiman and Henry Tan	Dynamic reliability analysis of corroded pipeline using Bayesian Network
3D6	64	CIVIL ENGINEERING	Azwin Zailti Abdul Razad, Nor Aishah Abbas, Lariyah Mohd Sidek, Jansen Luis Luis Alexander and Kwansue Jung	Sediment Management Strategies for Hydropower Reservoirs in Active Agricultural Area



**Parallel Session 3E - Civil Engineering**

Date / Day : 6 September 2018, Thursday

Time : 0900 - 1030

Venue : VIENNA (BA-4-024), Level 4, Administration Building, UNITEN Putrajaya Campus

	Paper ID	Track	Author	Paper Title
3E1	121	CIVIL ENGINEERING	Fathoni Usman and Sumi Amariena Hamim	Determine Environmental Structure Condition of River Sub System of Palembang City's Rivers using Geospatial Analysis
3E2	123	CIVIL ENGINEERING	Fathoni Usman, Nur Adibah Jalaluddin and Sumi Amariena Hamim	Value Engineering in Building Information Modelling for Cost Optimization of Renovation Works: A Case Study
3E3	131	CIVIL ENGINEERING	Abubaker Salem Saleh Ba-Batin, Hattan Ahmed Ahmed Haider, Leong Sing Wong and Haitham Adnan Abdullatef Taresh	Effectiveness of green strategies to reduce carbon emission in the Putrajaya Campus buildings of Universiti Tenaga Nasional
3E4	132	CIVIL ENGINEERING	Nur Hamizah Hamzah, Fathoni Usman and Mohd Yazee Mat Yatim	Dynamic Response of Self-Supported Power Transmission Tower Subjected to Wind Action
3E5	135	CIVIL ENGINEERING	Rohayu Che Omar, Rasyikin Roslan, Hairin Taha and Intan Nor Zuliana Baharuddin	Vege-Grout: A Potential Bio-Grout Material from Vegetable Waste for Bio-Cementation
3E6	137	CIVIL ENGINEERING	Akhilash Aravind, Ming Fai Chow and Kok Hua Chua	Feasibility Study of Pollutant Removal in Ringleet Reservoir using Lily Canna

**Parallel Session 3F - Mechanical Engineering****Date / Day : 6 September 2018, Thursday****Time : 0900 - 1030****Venue : PARIS (BA-4-027), Level 4, Administration Building, UNITEN Putrajaya Campus**

	Paper ID	Track	Author	Paper Title
3F1	31	MECHANICAL ENGINEERING	Darvind Asokan and Jawaid Inayat-Hussain	Loss factor of elastomeric dampers for rotating machinery
3F2	130	MECHANICAL ENGINEERING	Tiagrajah V Janahiraman and Nooraziah Ahmad	Multi Objective Optimization for Turning Operation using Hybrid Extreme Learning Machine and Multi Objective Genetic Algorithm
3F3	162	MECHANICAL ENGINEERING	Norhazwani Abd Malek, Siti Zulaika Osman, Nurhusna Mohamad Ehsan, Nurzanariah Roslan and Mohd Fakhri Rosli	Design and Development of Mini Portable Cooler for Breastmilk Storage
3F4	167	MECHANICAL ENGINEERING	Wai Kit Lam, Leon Chan, Hasril Hasini and Andrew Ooi	An Analysis of Two-Dimensional Stratified Gravity Current Flow using OpenFOAM
3F5	175	MECHANICAL ENGINEERING	Mathupriya Purushothman, Leon Chan Zen Hsien, Hasril Hasini and Andrew Ooi	Numerical Study of Flow Characteristics Around Confined Cylinder using OpenFOAM
3F6	60	MECHANICAL ENGINEERING	Omar Suliman Zaroog, S.A.P.Sughanthy, Mohd Rashdan Isa, M.N.M.Ansari	IMPROVING ASTM A516 Grade 70 MECHANICAL PROPERTIES BY SANDBLASTING PROCESS



**International Graduate Conference on Energy, Engineering & Technology 2018 (iGRAD2018)**  
**Parallel Session 4 Schedule**  
**Conference Day 2**  
**6 September 2018, Thursday**

<b>Parallel Session 4A - Energy and Environment</b> <b>Date / Day : 6 September 2018, Thursday</b> <b>Time : 1045 - 1300</b> <b>Venue : STOCKHOLM (BA-4-048), Level 4, Administration Building, UNITEN Putrajaya Campus</b>				
	Paper ID	Track	Author	Paper Title
4A1	143	ENERGY & ENVIRONMENT	Zuraida Awang Mat, Boon Kar Yap, Chou Yong Tan and Saiful Hasmady Abu Hassan	A Short Review of Material Combination in Bilayer Electrolyte of IT-SOFC
4A2	156	ENERGY & ENVIRONMENT	Surenderan Logan, Juniza Md Saad, Hui Zhou, Hesam Neshaeimoghaddam and Adlansyah Abdul Rahman	Characterization Studies On Waste Plastics as a Feedstock for Energy Recovery In Malaysia
4A3	157	ENERGY & ENVIRONMENT	Mohamad Rohmat Samsuri and Gasim Hayder	Climate Change Impact Assessment to the Proposed Coal Fired Power Plant Project at East Coast of Peninsular Malaysia
4A4	180	ENERGY & ENVIRONMENT	Mohd. Amin Mohamad and Othman Chin	The effects of internet usage on business sustainability of small technology-based rural business in Malaysia
4A5	200	ENERGY & ENVIRONMENT	Maryam Jamilah Asha'Ari and Salina Daud	Sustainable Transport and Corporate Sustainability Performance: Moderating Role of Organization Age
4A6	201	ENERGY & ENVIRONMENT	Koguleshun Subramaniam, Fei-Ling Pua, Sasidevan Munusamy, Mohd Aizat Mohd Nasir, Rohaya Othman and Sharifah Nabihah Syed Jaafar	Utilization of Carbide Lime Waste as Base Catalyst for Biodiesel Production

4A7	234	ENERGY & ENVIRONMENT	Bakhtiar Alrazi, Norhabibi Aishah Shaiful Bahari and Norhayati Mat Husin	Institutional Governance Perspectives of Carbon Emission Disclosures among Electricity Companies in Asia
4A8	236	ENERGY & ENVIRONMENT	Jegatheesan Rajadurai, Vathana Bathmanathan and Nurnazurah Azami	GEN Y GREEN PURCHASING BEHAVIOR IN RELATION TO ENERGY CONSERVATION AND ENVIRONMENTAL PRESERVATION PRODUCTS IN MALAYSIA
4A9	239	ENERGY & ENVIRONMENT	Siti Indati	Factors Influencing CO2 Emissions and Strategies for Emissions Reduction in Malaysian Transportation Sector

<b>Parallel Session 4B - Electronics &amp; Computing Technology</b>				
<b>Date / Day : 6 September 2018, Thursday</b>				
<b>Time : 1045 - 1300</b>				
<b>Venue : BARCELONA (BA-4-049), Level 4, Administration Building, UNITEN Putrajaya Campus</b>				
	<b>Paper ID</b>	<b>Track</b>	<b>Author</b>	<b>Paper Title</b>
4B1	126	ELECTRONICS & COMPUTING TECHNOLOGY	Archanaa Visvalingam, Jaspaljeet Singh Ranjit Singh, Saraswathy Shamini Gunasekaran and Alan Cheah Kah Hoe	Designing self-reflective visualizations in patient-centered systems
4B2	128	ELECTRONICS & COMPUTING TECHNOLOGY	Syamimi Mohd Norzeli, Ismarani Ismail, Norashidah Md Din, Mohd Tarmizi Ali, Sobhan Saravani and Ali Abd Almisreb	Design of High Gain Microstrip Patch Reader Array Antenna with Parasitic Elements for UHF RFID Application
4B3	136	ELECTRONICS & COMPUTING TECHNOLOGY	Siti Nur'Arifah M.Soair, Arthur Foo Yen Tan and Boon Kar Yap	A simple and portable reader to analyze concentration of iron in blood plasma via colorimetric analysis
4B4	144	ELECTRONICS & COMPUTING TECHNOLOGY	Ahmad Sawalmeh and Noor Shamsiah Othman	An Overview of Collision Avoidance Approaches and Network Architecture of Unmanned Aerial Vehicles (UAVs)

4B5	149	ELECTRONICS & COMPUTING TECHNOLOGY	Nolia Harudin, Khairur Rijal Jamaludin, Mohd Nabil Muhtazaruddin, Dr Faizir Ramlie, Wan Zuki Azman Wan Muhamad and Nur Najmiah Jaafar	Artificial Bee Colony for Features Selection Optimization In Increasing T-Method Accuracy
4B6	152	ELECTRONICS & COMPUTING TECHNOLOGY	Nurshazlina Suhaimy, Wan Siti Halimatul Munirah Wan Ahmad, Nurul Asyikin Mohamed Radzi, Fairuz Abdullah and Md Zaini Jamaludin	Analysis of MPLS-TP network for different applications
4B7	155	ELECTRONICS & COMPUTING TECHNOLOGY	Kharudin Bin Ali Din, Johnny Koh Siaw Paw Johnny, Mohd Aizat Bin Mohd Sulaiman Aizat, Ahmed N Abda Alla Ahmed, Tan Jian Ding and Chong Kok Hen	S55C Carbon Steel for Heat Treatment Process with Different Medium in Attenuation Measurement Using Ultrasonic Testing
4B8	158	ELECTRONICS & COMPUTING TECHNOLOGY	Noralinawati Ibrahim and Nor'Ashikin Ali	The Role of Organisational Factors to the Effectiveness of ISMS Implementation in Malaysian Public Sector
4B9	66	ELECTRONICS & COMPUTING TECHNOLOGY	Sajjad Salehi and Maryam Ghasdimanghootai	Term Weighting or Logistic Regression, which one pays off?

**Parallel Session 4C - Civil Engineering****Date / Day : 6 September 2018, Thursday****Time : 1045 - 1300****Venue : BERLIN (BA-4-050), Level 4, Administration Building, UNITEN Putrajaya Campus**

	Paper ID	Track	Author	Paper Title
4C1	138	CIVIL ENGINEERING	Hidayah Basri, Lariyah Mohd Sidek, Dong Sin Shih, Lloyd Chua, Wan Hazdy Azad and Azwin Zailti Abdul Razad	One Dimensional Shallow Water Equation Streamflow Modelling using WASH123D Model
4C2	140	CIVIL ENGINEERING	Gasim Hayder and Puniyarasen Perumuselum	An Investigation of Attached Biomass on Bio-media using Scanning Electron Microscopy
4C3	148	CIVIL ENGINEERING	Azwin Zailti Abdul Razad, Lariyah Mohd Sidek, Hidayah Basri, Jansen Luis Luis Alexander, Kwansue Jung and Shanker Kumar Sinnakaudan	Reservoir sediment inflow prediction using integrated rainfall-runoff and discharge-sediment model
4C4	150	CIVIL ENGINEERING	Nurul Atiqah Dzulkifli, Rohayu Che Omar, Fathoni Usman, Hairin Taha and Khairul Amri Sanusi	Compressive Strength Of Vege-Grout Brick
4C5	159	CIVIL ENGINEERING	Nadiyah Mokhtar, Edriyana A.Aziz, Azmi Aris, Wan Mohamad Faizal Wan Ishak, Anwar P.P. Abdul Majeed, Syazwan Nizam Moni and Siti Kamariah Md Sa'At	Comparative prediction of red alga biosorbent performance in dye removal using multivariate models of response surface methodology (RSM) and artificial neural network (ANN)
4C6	161	CIVIL ENGINEERING	Hasnida Harun, Nor Hazren Abdul Hamid, Norshuhaila Mohamed Sunar, Faridah Hanim Ahmad, Aznah Nor Anuar, Noor Hasyimah Rosman and Inawati Othman	Performance of aerobic granular sludge in treating soy sauce wastewater at different hydraulic retention time
4C7	165	CIVIL ENGINEERING	Nadiyah Mokhtar, Dr Edriyana Abd Aziz, Azmi Aris, Wan Faizal Wan Ishak, Syazwan Nizam Moni, Noor Saadiah Mohd Ali, Najiha Johari and Hasmanie Abdul Halim	Removal of Methylene Blue by red macro alga Eucheuma Spinosum: Pretreatment and desorption assessment

4C8	170	CIVIL ENGINEERING	Juliana Razali, Lariyah Mohd Sidek, Mohd Rashid Mohd Radzi, Md Shabbir Hossain and Mohammad Marufuzzaman	Probable Maximum Precipitation (PMP) Comparison Using Hershfield's Statistical Method And Hydro-meteorological Method
4C9	177	CIVIL ENGINEERING	Ngakan Putu Purnaditya, Herr Soeryantono, Dwinanti Rika Marthanty and Jessica Sjah	The Finite-Difference Model of Fully Saturated Groundwater Contaminant Transport

Parallel Session 4D - Civil Engineering				
Date / Day : 6 September 2018, Thursday				
Time : 1045 - 1300				
Venue : AMSTERDAM (BA-4-051), Level 4, Administration Building, UNITEN Putrajaya Campus				
	Paper ID	Track	Author	Paper Title
4D1	70	CIVIL ENGINEERING	Nurul Azmah Safie and Marlinda Abe Malek	Water Footprint Assessment and Water-Energy-Food Nexus for Domestic and Institutional Sectors in Klang Valley, Malaysia: A Review
4D2	72	CIVIL ENGINEERING	Afif Fitri Aziz, Nurul Hani Mardi, Marlinda Abdul Malek, Tan Wai Kiat and Teh Su Yean	Determination of the most significant fault parameters for Manila Trench earthquake tsunami
4D3	76	CIVIL ENGINEERING	Afif Fitri Aziz, Nurul Hani Mardi and Marlinda Abdul Malek	Projection of tsunami wave height at East-Coast of Peninsular Malaysia using Green's law
4D4	81	CIVIL ENGINEERING	Syazwan N. Moni, Edriyana A. Aziz, M. A. Malek, Nadiyah Mokhtar and Amirul A. Borhan	Prediction of Blue Water Footprint Accounting for Water Treatment Plants in Kuantan River Basin
4D5	83	CIVIL ENGINEERING	Mohd Zakwan Ramli and Nor Syahirah Azman	A Review of Structural Equation Model for Construction Delay Study

4D6	86	CIVIL ENGINEERING	Mohd Zakwan Ramli and Nor Syahirah Azman	Factors Affecting Quality Management of Construction Project Using Industrialized Building System: A Review
4D7	88	CIVIL ENGINEERING	G Nelvindran S Govindasamy, Nurul Hani Mardi and Marlinda Abd Malek	Modelling of Tsunami Forces on Coastal Structures : A Review
4D8	91	CIVIL ENGINEERING	Wan Norsyuhada Che Wan Zaniel, Marlinda Abdul Malek and Nurul Amira Abdul Aziz	Sensitivity analysis of storm duration for development of flood map at Bertam Catchment, Cameron Highlands.
4D9	94	CIVIL ENGINEERING	Ainun Syakirah Bahruddin, Kugaann Ravichandran and Ming Fai Chow	Phosphorus And Nitrogen Treatment Of Reservoir Water Using Zeolite

<b>Parallel Session 4E - Civil Engineering</b>				
<b>Date / Day : 6 September 2018, Thursday</b>				
<b>Time : 1045 - 1300</b>				
<b>Venue : VIENNA (BA-4-024), Level 4, Administration Building, UNITEN Putrajaya Campus</b>				
	<b>Paper ID</b>	<b>Track</b>	<b>Author</b>	<b>Paper Title</b>
4E1	181	CIVIL ENGINEERING	Hairun Aishah Mohiyaden, Lariyah Mohd Sidek, Gasim Hayder and Md Nasir Md Noh	Water Quality Assessment on Klang River Water Treatment Plants
4E2	185	CIVIL ENGINEERING	Amina Hanna, Rohayu Che Omar, Rasyikin Roslan and Hairin Taha	Analysis of Vege-Grout Coating From Vegetable Waste in Reducing Surface Temperature.
4E3	188	CIVIL ENGINEERING	Erly Bahsan and Rifani Fakhriyyanti	Comparison of 2D and 3D Stability Analyses for Natural Slope
4E4	189	CIVIL ENGINEERING	Rahima Umami Kulsum Nadya and Fathoni Usman	An Experimental Analysis on The Moment Rotation of Beam-Column Connection using Cold-Form Steel Section
4E5	194	CIVIL ENGINEERING	Nuratiyah Zaini, Marlinda Abdul Malek, Marina Yusoff, Siti Fatimah Che Osmi, Nurul Hani Mardi and Shuhairy Norhisham	Support vector machine and neural network based model for monthly streamflow forecasting



4E6	198	CIVIL ENGINEERING	Nursyamim Adila Selamat, Mohamed Ansari M.Nainar, Zainudin Yahya and Ragonatha Naicker	Mechanical properties of polypropylene/MMT nanocomposites for pre-fabricated vertical drain (PVD) application
4E7	203	CIVIL ENGINEERING	Siti Nur Ummiah Munir, Lariyah Mohd Sidek, Siti Humaira Haron, Nurshahira Mohd Noh, Hidayah Basri and Azwin Zailti Abd Razad	Flood Frequency Analysis at Downstream Sg. Perak River Basin using Annual Maximum Flow Discharge Data
4E8	205	CIVIL ENGINEERING	Hanis Adibah Khairulzaman and Fathoni Usman	Automation in Civil Engineering Design in Assessing Building Energy Efficiency
4E9	235	CIVIL ENGINEERING	M.S. Zulkarnain, R.C. Omar, I.N.Z. Baharuddin, R. Roslan and S.A. Kamarudin	Environmental Sensitive Area (ESA) for Route Selection of Transmission Tower

**Parallel Session 4F - Mechanical Engineering**

**Date / Day : 6 September 2018, Thursday**

**Time : 1045 - 1300**

**Venue : PARIS (BA-4-027), Level 4, Administration Building, UNITEN Putrajaya Campus**

	Paper ID	Track	Author	Paper Title
4F1	176	MECHANICAL ENGINEERING	Nurul Fateha Abd Kadir, Abreeza Noorlina Abd Manap, Meenaloshini Satgunam and Nurfanizan Mohd Afandi	Review on Nickel Aluminide Based Bond Coat Properties and Oxidation Performance for Thermal Barrier Coating (TBC) Application
4F2	190	MECHANICAL ENGINEERING	Nurfanzan Mohd Afandi, Abreeza Manap, Fitri Hanif Mansor, Mohammad Firdaus Abdul Ghani, Nurul Fateha Abdul Kadir and Wen Liu	Characterization of Fe <sub>2</sub> O <sub>3</sub> /Mn <sub>2</sub> O <sub>3</sub> oxygen carrier for chemical looping combustion prepared by dry impregnation method
4F3	192	MECHANICAL ENGINEERING	M.A Khattak, Abdoulhdi Borhana, Lailatul Fitriyah A. Shafii and Rustam Khan	MCNPX'S Water Equivalent Thickness Simulation of Material With Different Density Via Proton Beam Irradiation
4F4	193	MECHANICAL ENGINEERING	M A Khattak, Abdoulhdi Borhana, Nurul Syahrizzat M. Yasin, Rustam Khan and Juniza Md Saad	Initial Criticality Analysis Of Malaysia's TRIGA Research Re-actor Using TRIGLAV Computer Code
4F5	196	MECHANICAL ENGINEERING	Izzuddin M. Lazim, Abdul Rashid Husain, Nurul Adilla Mohd Subha and Mohd Ariffanan Mohd Basri	Intelligent observer-based feedback linearization for autonomous quadrotor control in the presence of time-varying disturbances

4F6	202	MECHANICAL ENGINEERING	Md Mujibur Rahman, Muhamad Ayub Ismail and Hendri Yani Rahman	An experimental investigation on the effect of sintering temperature and holding time to the characteristics of FeCuAl powder compacts formed at elevated temperature
4F7	204	MECHANICAL ENGINEERING	Abdolreza Toudehdeghan and Md. Mujibur Rahman	Comparison conventional coated beam with functionally graded coated beam
4F8	206	MECHANICAL ENGINEERING	Fatin Fatimah Abdul Majid, Nur Irmawati Om and Hasril Hasini	Influence of Laminar and Turbulent Flows on Heat Transfer in Liquid-Cooled Plate at Different Fin Arrangements
4F9	209	MECHANICAL ENGINEERING	Mohd Firdaus Jaafar, Zarul Iqmal Mohd Razali and Nur Amirani Ahmad	A review on hybrid magnetorheological isolator

**Parallel Session 4G - Civil Engineering**  
**Date / Day : 6 September 2018, Thursday**  
**Time : 1045 - 1300**  
**Venue : PBL (BA-4-016), Level 4, Administration Building, UNITEN Putrajaya Campus**

	Paper ID	Track	Author	Paper Title
4G1	32	CIVIL ENGINEERING	Zouheir Sallman and Fathoni Usman	Geomarketing using Remote Sensing: A Study on Marketing and Housing Development Strategy at Northern Riyadh
4G2	179	CIVIL ENGINEERING	Nur Farazuien Md Said and Siti Humaira Haron	Development Gross Pollutant Management Strategies Knowledge Database using ArcGIS
4G3	208	CIVIL ENGINEERING	Siti Aisyah Kamarudin, Fathoni Usman and Rohayu Che Omar	Analysis and Optimization of 275 kV Transmission Tower by Us-ing Linear Static Analysis and P-Delta Analysis
4G4	216	CIVIL ENGINEERING	Faten Syaira Buslima, Rohayu Che Omar, Tajul Anuar Jamaluddin and Hairin Taha	Flood and Flash Flood Geo-Hazards in Malaysia
4G5	238	CIVIL ENGINEERING	R. Roslan, R.C. Omar, I.N.Z. Baharuddin, M.M. Fared and W.N.S.W. Hashim	Determination of Segari Rock Slope Excavation Technique using Geological Strength Index (GSI)
4G6	245	CIVIL ENGINEERING	Min Chua Ngam, Sivadass Thiruchelvam, Azrul Ghazali, Kamal Nasharuddin Mustapha, Yu Jin Ng, Rassidi Sabri Muda and Nora Yahya	A Review of Key Activities in Hydrometeorological Disaster Management
4G7	246	CIVIL ENGINEERING	Yu Jin Ng, Sivadass Thiruchelvam, Seng Tong Chong, Azrul Ghazali and Norhayati Mat Husin	Technicality in Collocation of Engineering Language

4G8	247	CIVIL ENGINEERING	Sivadass Thiruchelvan, Yu Jin Ng, Seng Tong Chong, Azrul Ghazali, Kamal Nasharuddin Mustapha and Norhayati Mat Husin	The Language of Civil Engineering: Corpus-based Studies on Vocational School Textbooks in Malaysia
4G9	99	CIVIL ENGINEERING	Prakash Ananthan and Leong Sing Wong	Field Investigation on Limestone Treatment using Fissure Grouting Method
4G10	113	CIVIL ENGINEERING	Mohd Zakwan Ramli and Nursyadzatul Tasnim Roslin	Influence of Project Type, Location and Area Towards Construction Delay: A Review on Significance Level of Delay Factors