

## PRESENTATION SCHEDULE

### DAY 1: 15 DECEMBER 2021 (WEDNESDAY)

#### PARALLEL SESSION 1

Cluster	<u>Electronic &amp; Computer Engineering ROOM 1A</u>	<u>Power Engineering ROOM 1B</u>	<u>Communication Engineering ROOM 1C</u>	<u>Power Engineering ROOM 1D – Virtual</u>
	Session Chair: Dr. Shahidatul Saadiah Abd. Manan	Session Chair: AP. Ir. Dr. Tan Chee Wei	Session Chair: AP. Ir. Dr. Sharifah Hafizah Syed Ariffin	Session Chair: AP. Ir. Dr. Pauzi Abdullah  Link: TBA
09.00 am	1570763596  Pedestrian Attribute Recognition: Upper Body Clothing Classification  <u>Syahmi Syahiran Bin Ahmad Ridzuan</u> ; Zaid Omar; Usman Ullah Sheikh	1570769359  Analysis on the DC Source Lifetime and Conduction Losses of a Single-Phase Nine- Level Non-Isolated DC Source Symmetric (NDS) Multilevel Inverter  Naziha Ahmad Azli; Lili Mohammadalibeigy	1570755060  Performance Analysis of Cooperative Diversity on UAVs- Based FANET  Muhammad Nauman Bashir; Kamaludin Mohamad Yusof; Mohd Rizal Jasman	1570757981  Solving Unit Commitment Problem Using MILP for Demand Side Management  Abubakar Ahmed; Habibuddin Hafiz
09.20 am	1570768408  Reverse Engineer 5 Degrees of Freedom Robot Arm Using Programmable Logic Controller  Nurul Huda Abd Rahman; Zulfakar Aspar; Izam Kamisian; Abdul-Malik Saad	1570767761  Optimal Design of Thermoelectric Generator with Vertically Aligned PEDOT: PSS Thermoelements  Md. Nazibul Hasan; Mohamed Sultan Mohamed Ali	1570766010  Data Management System of IoT for Stingless Bee Monitoring  Noor Hafizah Khairul Anuar; Mohd Amri Bin Md Yunus; Muhammad Ariff Baharudin; Salehuddin Ibrahim; Shafishuhaza Sahlan; Mohammad Yusuf Been Hashem; Mohammad Abdullah Siddique	1570763306  Energy Cost and Carbon Emission Minimization for Hybrid Grid- Independent Microgrid Using Rule-Based Energy Management Scheme  Chee Wei Tan; Kwan Yiew Lau; Chuen Ling Toh; Razman Ayop; Ahmed Tijjani Dahiru; Baba Abbagoni; Abba Lawan Bakar
09.40 am	1570768038  Bird Sound Detection with Binarized Neural Networks  <u>Muhammad Mun'im A Zabidi</u> ; Wong Kah Liang; Usman Ullah	1570739216  Power Consumption in the DSL Access Network System  <u>Dang Fillatina Hashim</u> ; Fauziahanim Che Seman; Ahmad Fateh Mohamad Nor; Siti	1570767867  Fiber Mach-Zehnder Interferometer Based on Double Cladding Fiber for High Curvature Measurement	1570763409  Temporal and Wavelet Analysis on Narrow Bipolar Pulse and First Return Stroke Recorded in Malaysia Thunderstorm

	Sheikh; Shahidatul Sadiyah; Afiq Hamzah	Amely Jumaat; Ansar Jamil	Siti Musliha Aishah Musa; Asrul Izam Azmi; Ahmad Sharmi Abdullah; Muhammad Yusof Mohd Noor; Raja Kamarulzaman Raja Ibrahim; Jianzhong Zhang	Noraishah Bahari; Mona Riza Mohd Esa; Amirul Aiman Razman
10.00 am	1570754636 High-Throughput and Low-Latency ASIC Implementation of Lightweight Cryptography Shahidatul Sadiyah, Mohd Usairy Syafiq, Ismahani Ismail, Mohd Shahrizal Rusli, Lee Jiah Chun	1570766741 Sizing Optimization Algorithm for Vehicle-To-Grid System Considering Cost and Reliability Based on Rule-Based Scheme Abdulgader Alsharif; Chee Wei Tan; Razman Ayop; Mohamed Nuri Hussin; Abba Lawan Bukar	1570767086 A Slotted Planar Antenna for 5G Applications Hussam H Keriee; Mohamad Kamal A. Rahim; Osman Bin Ayop; Nawres Nayyef; Mustafa Ghanim; Omar Al-Obaidi; Bashar Esmail	1570763514 A Novel Intelligent Tracking Controller Based on Human Reaction Towards Light <u>Alaa Omran</u> ; Dalila Mat Said; Siti Maherah Hussin; Mohamed Shahrman Mohamed Yunus; Mohd Hanif Bin jamaludin
10.20 am	1570764667 Hybrid Non Scan with BIST for Fault Coverage Improvement Azra Ahmadi; Norlina Paraman; Mohd Shahrizal Rusli; Suhaila Isaak	1570768307 The coordination of overcurrent relay in distribution system - power <u>Rasyidah Mohamad Idris</u>	1570766740 Microstrip Series Feed Array Antennas for Millimeter Wave 5G Applications Abd al menam Ahmed Al Azzawi; Mohamad Kamal A. Rahim; Osman Bin Ayop; Norsaidah Muhamad Nadzir	1570763569 Policies Support and Constraints in Developing Innovation Products of Electrical Energy in Indonesia Jangkung Raharjo; Jaspar Hasudungan; Kharisma Bani Adam; Efri Suhartono
<b>END OF PARALLEL SESSION 1</b>				
10.40 am	<b>NETWORKING AND MORNING BREAK</b>			
11.00 am	<b>OPENING CEREMONY</b>			
11.45 am	<b>KEYNOTE SESSION 1</b>			
12.30 pm	<b>PHOTO SESSION AND LUNCH BREAK</b>			
02.00 pm	<b>KEYNOTE SESSION 2</b>			
02.45 pm	<b>KEYNOTE SESSION 3</b>			
03.30 pm	<b>KEYNOTE SESSION 4</b>			
04.15 pm	<b>PHOTO SESSION</b>			
04.30 pm	<b>TEA BREAK</b>			
05.00 pm	<b>END OF DAY 1</b>			

**DAY 2: 16 DECEMBER 2021 (THURSDAY)**

**PARALLEL SESSION 2 PART 1**

Cluster	<u>Communication Engineering ROOM 2A</u>  Session Chair: Dr. Kamaludin Mohamad Yusof	<u>Communication Engineering ROOM 2B</u>  Session Chair: Dr. Osman Ayop	<u>Control &amp; Mechatronic Engineering ROOM 2C – Virtual</u>  Session Chair: Dr. Mohad Ariffanan Mohd Basri  Link: TBA	<u>Electronic &amp; Computer Engineering/ ROOM 2D - Virtual</u>  Session Chair: Dr. Aini Zakaria  Link: TBA
09.00 am	1570771961  Intrusion Detection System (IDS) Accuracy Testing for Software Defined Network Internet of Things (SDN-IOT) Testbed  <u>Sharifah Hafizah Syed Ariffin</u> ; Jia Le Chong; Nurul Mu'azzah Abdul Latiff; Sharifah Kamilah Syed Yusof; Kamaludin Mohd Yusoff; Nik Noordini Nik Abd Malik; Muhammad Ariff Baharudin; Rashidah Arsat	1570766355  Frequency Responses of the Breathing Sound Signals  Mokhtar Harun; Muhammad Zulhairy Ramli; Muhammad Aasim Asyafiie bin Ahmad; Musa Mohd Mokji; Azli Yahya; Siti Abdul Hamid; Johari Kasim	1570768532  State Estimation of Mobile Robot Navigation in Intermittent Measurements  Hamzah Ahmad, Ts.; Badaruddin Muhammad; Mohd Syakirin Ramli; Maziyah Mat Noh; Zainah Md Zain	1570766763  Performance Comparison of CMOS and NMOS GNR FET Full Adder  Tan Zheng Hong, Muhammad Faizal Muhammad Rasol, <u>Zaharah Johari</u> , Michael Tan, Afiq Hamzah, Suhana M. Sultan, Yusmeeraz Yusoff, N. Ezaila Alias and Suhaila Isaak
09.20 am	1570766595  Circular Complementary Split Ring Resonator Rotation for Linear Array Millimeter Wave Microstrip Patch Antenna  Norsaidah Muhamad Nadzir; Mohamad Kamal A. Rahim; Noor Asniza Murad; Mohamed Himdi; Osman Bin Ayop	1570766493  Second Iteration of Slotted Fractal Log Periodic Dipole Antenna for UHF Digital TV Band Application  Muhammad Hafeez Bin Rosmin; Mohamad Kamal A. Rahim; Nur Syahirah Mohd Yaziz; Osman Bin Ayop; Muhammad Amir Haziq Kamarussahrin; Muhammad Naeem Iqbal	1570769125  Design of Industrial Internet of Things System on Mini-Plant Oil Separator Level Control Based on Industrial Wireless Sensor and Actuator  Suyanto Suyanto, Ando Subakti, Detak Pratama, Juwari Sutikno, Purwadi Agus Darwito	1570762074  Malicious Traffic Classification Using Hybrid Heuristic-Payload Based Technique with Machine Learning  <u>Ismahani Ismail</u> , Nurul Aze Alia Bahar and Shahidatul Sadiyah
09.40 am	1570778944  Supervisory Mobile Application for GuardExpert PRO Security Sytem	1570771614  4G Signal Strength Measurement and Simulation for Outdoor Environment at 1.8 GHz and 2.6 GHz	1570767125  Path Tracking of Wheeled Robot Prototype Using Artificial Neural Network	1570765715  A 16-Bit Brent-Kung Adder Scheme for Linear Array Photon Counting Circuit

	Rozeha A. Rashid; Muhammad Afiq Kamaruzaman	Muhammad Amir Haziq Kamarusshahrin and Mohamad Kamal A. Rahim	Suyanto Suyanto; <u>Falentin Tri Yulianto</u> ; Bambang W; Iwan Cony Setiadi; Andi Rahmadiansah; Muhammad Samsul Arifin	Suhaila Isaak; Norlina Paraman; Yusmeeraz Yusof; Afiq Hamzah; Abu Bakar Ndottiwa
10.00 am	1570764303  New Reconfigurable Transmitarray Unit Cell Design at Ku-Band Using PIN Diodes  Muhammad Naeem Iqbal; Mohd Fairus Mohd Yusoff; Mohamad Kamal A. Rahim; Mohamad Rijal Hamid; Zaharah Johari; Khawaja Hamood Ur Rahman	1570766218  Analysis on the Effect of Metamaterial Structure Number on Microstrip Antenna Ground Plane  Sri Ayu Amalia; Dewi Septia Anzani; Airlangga Baihaqi Wicaksono; Fariz Muhammad; Edwar Edwar; Dharu Arseno	1570763879  Position and Attitude Control of MAV Quadrotor Using Super Twisting Sliding Mode Control  Aminurrashid Noordin; Mohd Ariffanan Mohd Basri; Zaharuddin Mohamed; Izzuddin Mat Lazim	1570763956  Laser Line Detection for Groove Butt-Joint Type Based on Vision System  Nurul Fatiha Johan; Hairol Nizam Mohd Shah; Marizan Sulaiman
10.20 am				1570766597  Performance Analysis of Digital Video Broadcasting – Second Generation Terrestrial (DVB-T2) Propagation for Fixed Reception in the Central Region of Malaysia  Ahmad Fesol Mansor; Darmawaty M Ali; <u>Yusmardiah Yusuf</u>
10.40 am	<b>MORNING BREAK AND NETWORKING</b>			
<b>PARALLEL SESSION 2 PART 2</b>				
	<u>Communication Engineering</u> <b>ROOM 2A – Virtual</b> Session Chair: Session Dr. Mohd Fairus Mohd Yusoff  Link: TBA	<u>Power Engineering</u> <b>ROOM 2B – Virtual</b> Session Chair: Session Dr. Razman Ayop  Link: TBA		
11.00 am	1570772226  Performance Evaluation of A Deployed Radio-LTE Network Using Turbo Equalization Technique  Elarbi Abderraouf	1570764893  Network Topology Optimization for Improved Wind Penetration and Reliability  Olatunji Lawal		

11.20 am	1570763655 Flexible Frequency Reconfigurable Antenna Using Reed Switch for Health Monitoring Application Ng Zhong Ying; Noor Asmawati Samsuri; Noor Asniza Murad; Mohamad Kamal A Rahim; Bambang Setia Nugroho; Lukman Hendrajaya	1570772620 Day-Ahead Scheduling of CNG Station and Hybrid CNG and Plug-In Electric Vehicles in the Form of Virtual Power Plant Mohammad Seyfi; Mehdi Mehdinezhad; Behnam Mohammadi-Ivatloo; Heydar Ali Shayanfar; Zulkurnain Abdul-Malek		
11.40 am	1570764757 The Effect of Biasing Line in Frequency Reconfigurable Metamaterial Antenna Design Adamu Y Ilyasu; Mohamad Rijal Hamid; Mohamad Kamal A. Rahim; Mohd Fairus Mohd Yusof; Murtala Aminu-Baba; Kabiru Ibrahim Jahun	1570774524 Development an Algorithm of Magnitude Changes of Frequency Response Analysis for Transformer Muhamad Aizuddin Mohd Kamel		
12.00 pm	1570766698 Waveguide Coupler Using Direct Coupling Aperture for Ka-Band Applications Hatem Oday Hanoosh; Mohamad Kamal A. Rahim; Noor Asniza Murad; Yaqhdhan Hussein	1570763864 Demand Side Management Strategies and Tariffs in Distributed Grids <u>Ahmed Tijjani Dahiru</u> ; Chee Wei Tan; Sani Salisu; Kwan Yiew Lau; Chuen Ling Toh; Abba Lawan Bukar		
12.20 pm	1570767090 Microstrip Patch Antenna Miniaturization Using Metamaterial Structure for 5G Communication Levy Olivia Nur; Samuel Wicaksono; Bambang Setia Nugroho; Edwar Edwar; Harfan Hian Ryanu			
12.30 pm	<b>LUNCH BREAK</b>			

02.00 pm	<b>NETWORKING</b>
03.00 pm	<b>TEA BREAK</b>
03.30 pm	<b>NETWORKING</b>
05.00 pm	<b>END OF DAY 2</b>