

PARRALLEL SESSION ON 15 MARCH 2021

| # | Title | Track name | Authors | Presenters: full names | Date | Allocation Time (EST +8hrs Kuala Lumpur) |
|------------|---|---------------------------|---|---|-----------|--|
| 1570697681 | Planning, Design and Simulation of a Network Access Based on FTTN for Hadhramout University | Communication Engineering | Hesham Abdullah Bakarman; Abdulqader Alsaqaf; Munira Baraja; Fatima Baqhoom; Mohammed Ba'afiah | Hesham Bakarman; Abdulqader Alsaqaf | SESSION 1 | 1630 - 1645 |
| 1570698924 | A New Filtering Algorithm for Generating Path Loss Model to Improve Accuracy of Trilateration-Based Indoor Positioning System | Communication Engineering | Lucas Susanto; Waskitho Wibisono; Tohari Ahmad | Lucas Susanto | | 1645 - 1700 |
| 1570699631 | Improving Energy Detection Performance Using Segment of Primary User Signal Energy in Wide-Band Cognitive Radio Systems | Communication Engineering | Khaled BaAli; Sabah Ahmed; Mohamed Abozahhad; Mohammed Farrag | Khaled BaAli | | 1700 - 1715 |
| 1570701301 | Design of Reconfigurable Antenna for RFID System | Communication Engineering | Thennarasan Sabapathy; Renukka Sivakumar; Muzammil Jusoh; Suhanya Jayaprakasam; Mohamed Nasrun Osman; Ping Jack Soh; Nitin Saluja; Mohd Najib Mohd Yasin; Samir Salem Al-Bawri | | | 1715 - 1730 |
| 1570701302 | Investigation on the Mutual Coupling Reduction in MIMO Antenna Using Dual Split CSRR EBG | Communication Engineering | Thennarasan Sabapathy; Ali Mohammed Alsayaghi; Badlishah R Ahmad; Hasliza A Rahim; Kabir Hossain; Raghava Srinivasa Nallanthighal; Mohamed Nasrun Osman; Muzammil Jusoh; Suhanya Jayaprakasam | | | 1730 - 1745 |
| 1570702274 | A Compact Wideband CSRR near Zero Refractive Index and Epsilon Negative Metamaterial for Wearable Microwave Applications | Communication Engineering | Kabir Hossain; Thennarasan Sabapathy; Muzammil Jusoh; Ping Jack Soh; Mohamed Nasrun Osman; Samir Salem Al-Bawri | Kabir Hossain | | 1745 - 1800 |
| 1570704014 | Compact Meandered Monopole Antenna for Dual-Bands WLAN Application | Communication Engineering | Syahirah Bohari; Najwa Mohd Faudzi; Ahmad Rashidy Razali; Aiza Mahyuni Mozi; Fazrul Faiz Zakaria; Mohd Zaizu Ilyas | Najwa Mohd Faudzi | SESSION 2 | 1630 - 1645 |
| 1570704034 | Dual Monopole Frequency Reconfigurable Antenna for MIMO 5G Sub-6 GHz Mobile Terminal | Communication Engineering | Surentiran Padmanathan; Azremi Abdullah Al-Hadi; Ping Jack Soh; Samir Salem Al-Bawri | Surentiran Padmanathan | | 1645 - 1700 |
| 1570704134 | Gain Enhancement of CPW Antenna for IoT Applications Using FSS with Miniaturize Unit Cell | Communication Engineering | Saidatul Norlyana Azemi; Mohd Rashidi Che Beson; Amiza Amir | Saidatul Norlyana Azemi; Mohd Rashidi Che Beson; Amiza Amir | | 1700 - 1715 |
| 1570704385 | The Effect of Meditation on Brain Relaxation Incorporating Different Physiological Activities | Communication Engineering | Nurul Nabilah Abd Razak; Khairul Azami Sidek; ALaa Kamal Yousif; Huda Adibah Mohd Ramli | Nurul Nabilah Abd Razak; Khairul Azami Sidek | | 1715 - 1730 |
| 1570704561 | RGB Image Encryption Using Hill Algorithm and Chaos System | Communication Engineering | Ahmed Alkhayyat | | | 1730 - 1745 |
| 1570704563 | Multimodal Medical Image Fusion Using Dense SIFT Optical Flow | Communication Engineering | Ahmed Alkhayyat | | | 1745 - 1800 |
| 1570704105 | Deep-Learning Assisting Cerebral Palsy Patient Handgrip Task Translation | Computer Engineering | Fazrul Faiz Zakaria; Mohd Nazri Mohd Warip; Phaklen Ekhkan; Muslim Mustapa; Mohd Zaizu Ilyas | Fazrul Faiz Zakaria | SESSION 3 | 1630 - 1645 |
| 1570704132 | IoT-Based Automated and Contactless Shopping Cart During Pandemic Diseases Outbreak | Computer Engineering | Yun Faang Ho; Naimah Yaakob; Khairul Azami Sidek; Mohamed Elshaikh; Ong Bi Lynn Ong; Mahathir Almarshor | Yun Faang Ho | | 1645 - 1700 |
| 1570704170 | A Comparative Study of Ring Oscillator PUFs Implementation on Different FPGA Families | Computer Engineering | Muslim Mustapa | Muslim Mustapa | | 1700 - 1715 |
| 1570704279 | Mobile Green E-Waste Management Systems Using IoT for Smart Campus | Computer Engineering | Hasliza A Rahim; Khairul Najmy Abdul Rani; Muzammil Jusoh; Mohd Najib Mohd Yasin; Thennarasan Sabapathy; Wan Azani Mustafa; Badlishah R Ahmad; Dalal Abdulmohsin Hamood | Khairul Najmy Abdul Rani | | 1715 - 1730 |
| 1570704316 | Using Unmanned Aerial Vehicle in 3D Modelling of UniCITI Campus to Estimate Building Size | Computer Engineering | Wan Azani Mustafa; Mohd Saifizi Saidon; Hasliza A Rahim | Mohd Saifizi Saidon | | 1730 - 1745 |

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| 1570701624 | IoT Based Smart Agriculture Monitoring, Automation and Intrusion Detection System | Computer Engineering | Ahmad faisol Suhaimi; Naimah Yaakob; Sawasan Ali Saad; Khairul Azami Sidek; Mohamed Elshaikh; Ong Bi Lynn Ong; Mahathir Almasnor | Ahmad faisol Suhaimi | SESSION 4 | 1745 - 1800 |
| 1570697361 | Analytical Modeling of AIN Based Film Bulk Acoustic Wave Resonator for Hydrogen Sulfide Gas Detection Based on PiezoMUMPS | Electronic Engineering | Saeed S. Ba Hashwan; Mohd Haris Md Khir; Yarub Al-Douri; Abdelaziz Yousif Ahmed; Sami Sultan Alabsi; Abdullah Saleh Algamil; Muhammad Junaid | Saeed Ba Hashwan | | 1630 - 1645 |
| 1570698852 | Simulation of InGaAs-Based Planar Nanodevices as Terahertz Rectifiers | Electronic Engineering | Muhammad Imran Rahman; Shahrir Rizal Kasjoo; Arun Kumar Singh | | | 1645 - 1700 |
| 1570701561 | Pseudo-Differential Transconductor Circuit for a Low Supply Voltage Application | Electronic Engineering | Nur Diyana; Faizah Abu Bakar; Anishaziela Azizan; Sohiful Anuar Bin Zainol Murad | Nur Diyana | | 1700 - 1715 |
| 1570701648 | Design of 2.4GHz Two Stage with Cascade Class E Power Amplifier for Wireless Application | Electronic Engineering | Koh Siang Yi; Sohiful Anuar Bin Zainol Murad; Shaiful Nizam Mohyar | Koh Siang Yi | | 1715 - 1730 |
| 1570703579 | Design and Simulation of a Small Power Two-Bit MC Circuit via Full Adder Logic | Electronic Engineering | Anwar Ahmad Zainuddin; Soumik Bhattacharjee; Aparna Vyakaranam; Rafidah Sulo; Shaikh Sahenawaz Sarwar Shameem; Satya Devu Svpk | Soumik Bhattacharjee | | 1730 - 1745 |
| 1570704120 | Development A Portable Solar Energy Measurement System | Electronic Engineering | Sharifah Nor Atika; Wai Zhe Leow; Saw Xin; Iszaidy Ismail; Safwati Ibrahim; Muhammad Irwanto; Mohd Wafi Nasrudin; Mohd Irwan Yusoff | Sharifah Atika | | 1745 - 1800 |
| 1570702305 | The Effect of Multidimensional Factors of Organizational Adoption of Enterprise Architecture: The Moderating Role of Organization Type | Intelligent System, Communicati | Nor Azizah Ahmad | Nor Azizah Ahmad | SESSION 5 | 1630 - 1645 |
| 1570703364 | Plant Diseases Classification Using Machine Learning | Intelligent System, Communicati | Tan Soo Xian; Ruzelita Ngadiran | Tan Soo Xian | | 1645 - 1700 |
| 1570703417 | An Artificial Intelligent Approach for Black Oil PVT Properties | Intelligent System, Communicati | Abdelrageeb Ali AlGathe; Ahmed El-Banbi; Khaled Abdel Fattah; Khaled EL-Metwally | Abdelrageeb AlGathe | | 1700 - 1715 |
| 1570703444 | High Utility Mining of Streaming Itemsets in Data Streams | Intelligent System, Communicati | Abdullah Bokir; V. b Narasimha | Abdullah Bokir | | 1715 - 1730 |
| 1570703446 | Moment Invariants Technique for Image Analysis and Its Applications: A Review | Intelligent System, Communicati | Mohd Wafi Nasrudin; Shahul Yaakob; Amir Nazren Abdul Rahim; Mohd Zamri Zahir Ahmad; Nuraminah Ramli; Mohd Shaiful Aziz Rashid Ali | Mohd Wafi Nasrudin | | 1730 - 1745 |
| 1570703639 | Development of E-Healthcare Management System Using PHP, Javascript and Cascading Style Sheets | Intelligent System, Communicati | Vijayasarveswari Veeraperumal; Lim Jia Chyin; Mohd Wafi Nasrudin; Iszaidy Ismail | Lim Jia Chyin | | 1745 - 1800 |
| 1570704072 | Adopting Ant Colony Optimization Algorithm for Pairwise T-Way Test Suite Generation Strategy | Intelligent System, Communicati | Nuraminah Ramli; Rozmie Razif Othman; Rimuljo Hendradi; Shukur Sanim Mohd Fauzi; Iszaidy Ismail; Mohd Zamri Zahir Ahmad; Mohd Wafi Nasrudin | Nuraminah Ramli | | 1630 - 1645 |
| 1570704115 | SNN-SB: Combining Partial Alignment Using Modified SNN Algorithm with Segment-Based for Multiple Sequence Alignments | Intelligent System, Communicati | Aziz Nasser Boraik Ali; Hassan Pyar Ali Hassan; Hesham Bahamish | Hassan Hassan | 1645 - 1700 | |
| 1570704137 | Class Attendance System Using Viola-Jones Algorithm and Principal Component Analysis | Intelligent System, Communicati | Nur Dini Ayuni Binti Yaakub; Mohd Wafi Nasrudin; Vijayasarveswari Veeraperumal; Iszaidy Ismail; Rashidah Binti Che Yob; Wai Zhe Leow; Wan Azani Mustafa | Mohd Wafi Nasrudin | SESSION 6 | 1700 - 1715 |
| 1570704192 | Communicating with the Deaf and Hard of Hearing Through Automatic Arabic Sign Language Translator | Intelligent System, Communicati | Ghazanfar Latif; Jaafar M. Alghazo; Nazeeruddin Mohammad; Runna Alghazo | | | 1715 - 1730 |
| 1570704383 | GPSR Routing Performances Enhancement for VANET Networks with Taguchi Optimization Mechanism | Intelligent System, Communicati | Mohamed Elshaikh; ALaa Kamal Yousef; Hasimah Ali | | | 1730 - 1745 |
| 1570704531 | An Efficient Approach for Design a Modified Discrete Fourier Transform Pseudo-QMF Banks | Intelligent System, Communicati | Ahmed Alkhatyat | | | 1745 - 1800 |

| PARRALLEL SESSION ON 16 MARCH 2021 | | | | | | |
|------------------------------------|--|--|--|----------------------------|-----------|--|
| # | Title | Track name | Authors | Presenters: full names | Date | Allocation Time (EST +8hrs Kuala Lumpur) |
| 1570702540 | Performance Analysis of 5G Millimeter Waves over Free Space Optics System | Communication Engineering | Abdullah Aldhaibani; Hesham Abdullah Bakarman | Abdullah Aldhaibani | SESSION 1 | 1500 - 1515 |
| 1570703748 | An Impedance Matching Network Towards Amplifier Design from Conceptual to Practical: Simulation Study | Communication Engineering | Rashidah Binti Che Yob; Nur Hidayah Ramli; Norfatimah Bahari; Liyana Zahid; Mohd Wafi Nasrudin | Rashidah Che Yob | | 1515 - 1530 |
| 1570703896 | A RFID Tag Antenna for Wearable Application System in Microwave Frequency Band | Communication Engineering | Nur Hidayah Ramli; Rashidah Binti Che Yob | Nur Hidayah Ramli | | 1530 - 1545 |
| 1570703911 | Comparative Study of Energy Storage Systems (ESSs) | Communication Engineering | Lyana Izzati Mohd Asri; Wan Nur Suryani Firuz Wan Ariffin; Aini Syuhada Md Zain; Junita Mohd Nordin; Nazatul Syima Saad | Lyana Izzati Mohd Asri | | 1545 - 1600 |
| 1570703941 | A Literature Survey on Cloud-RAN Architecture Toward 5G Green Wireless Communication Systems | Communication Engineering | Nazatul Syima Saad; Wan Nur Suryani Firuz Wan Ariffin; Junita Mohd Nordin; Aini Syuhada Md Zain; Lyana Izzati Mohd Asri | Nazatul Saad | | 1600 - 1615 |
| 1570703974 | Broadband Sub-6GHz Slot-Based MIMO Antenna for 5G NR Bands Mobile Applications | Communication Engineering | Samir Salem Al-Bawri; Emad Ahmed Alyan; Muzammil Jusoh; Thennarasan Sabagpathy; Surentiran Padmanathan; Kabir Hossain | Samir Al-Bawri | | 1615 - 1630 |
| 1570698022 | A Survey of Using Optimization Techniques in Solving Internet of Things Security Issues | Computer Engineering | Ahmed Ali Bawazir; Talal M Alkharobi | | SESSION 2 | 1500 - 1515 |
| 1570704461 | IoT Smart Guidance Parking Search System for Open Space Parking Area | Computer Engineering | Iszaidy Ismail; Nuraminah Ramli; Vijayasarveswari Veeraperumal; Amir Nazren Abdul Rahim; Ruzelita Ngadiran; Wai Zhe Leow; Mohd Wafi Nasrudin | Iszaidy Ismail | | 1515 - 1530 |
| 1570701790 | Document Parsing Tool for Language Translation and Web Crawling Using Django REST Framework | Computer Engineering | Kruthika Alnavar; Uday Kumar R; Narendra babu C | Kruthika Alnavar | | 1530 - 1545 |
| 1570702442 | Digital Image Recovery Based on Lifting Wavelet Transform | Computer Engineering | Taha Basheer Taha; Dujan Taha; Ruzelita Ngadiran; Phaklen Ehkan | Taha Taha | | 1545 - 1600 |
| 1570703365 | Smart Water Pipeline Monitoring System Based on Internet of Thing (IoT) | Computer Engineering | Nur Nabila Che Omar; Ku Nurul Fazira Ku Azir | | | 1600 - 1615 |
| 1570704082 | Synthesizable Verilog Code Generator for Variable Width Tree Multipliers | Computer Engineering | Chuah Ching Fun; Nandha Kumar Thulasiraman | Chuah Ching Fun | | 1615 - 1630 |
| 1570704590 | Design of an Internet of Thing Based Air Pollution Monitoring System | Computer Engineering | Sohiful Anuar Bin Zainol Murad; Jamilah Karim; Faizah Abu Bakar; Anishaziela Azizan | Sohiful Anuar Zainol Murad | SESSION 3 | 1500 - 1515 |
| 1570704591 | Implementation of the Friis Free Space Propagation Model in the Dynamic Source Routing (DSR) Routing Protocol in the Vehicular Ad-Hoc Network (VANET) with Variations of Road Models | Computer Engineering | Heru Nurwarsito; Abdul Aziz | Heru Nurwarsito | | 1515 - 1530 |
| 1570697754 | Effect of K-Factor on Capability in Power Transformer | Electrical Engineering | Muhammad Apriansyah | Muhammad Apriansyah | | 1530 - 1545 |
| 1570701515 | Threat Assessment Model in Electrical Power Grid Environment | Electrical Engineering | Qais Qasim; Norziana Jamil; Mohammed Najah Mahdi; Azril Azam Abdul Rahim | | | 1545 - 1600 |
| 1570703348 | Selective Harmonic Elimination of Five Level Cascaded H-Bridge Inverter Using Newton Raphson Technique | Electrical Engineering | Wan Azani Mustafa; Mohd Saifizi Saidon; Hasliza A Rahim | Mohd Saifizi Saidon | | 1600 - 1615 |
| 1570703753 | Experimental Study of Bipolar PV Inverter for Linear and Nonlinear Load | Electrical Engineering | Wan Azani Mustafa; Muhammad Zaid Ahsan; Aminudin Jamlos; Hasliza A Rahim | Muhammad Zaid Ahsan | | 1615 - 1630 |
| 1570704121 | Zigzag Low-Complexity Approximate DCT Using Frequency Upscaling Technique | Electronic Engineering | Junqi Huang; Nandha Kumar Thulasiraman; Haider Abbas F. Almurib | Junqi Huang | SESSION 4 | 1500 - 1515 |
| 1570708156 | Enhanced Light Extraction Efficiency (LEE) of GaN-Based LED Die Through Substrate Side Surface Grooving | Electronic Engineering | Hayma Chandran | | | 1515 - 1530 |
| 1570708160 | Metal-Ferroelectric-Metal Characterization for Optical Modulator | Electronic Engineering | Nur Amira Razilam | | | 1530 - 1545 |
| 1570696042 | A Hybrid Technique for Intelligent Bank Security System Based on Blink Gesture Recognition | Intelligent System, Communication and Soft Computing | Saeed Mohammed Baneamoon, SMB; Raed Bakunah | Raed Bakunah | | 1545 - 1600 |
| 1570698224 | Identifying the Impact of Noise Levels on Mental Stress: An EEG-fNIRS Study | Intelligent System, Communication and Soft Computing | Emad Ahmed Alyan | Emad Alyan | | 1600 - 1615 |
| 1570700781 | Malware Detection Using Machine Learning Algorithms Based on Hardware Performance Counters: Analysis and Simulation | Intelligent System, Communication and Soft Computing | Omar Bawazeer; Tarek A. Helmy; Suheer Ali Al-Hadhrani | Omar Bawazeer | | 1615 - 1630 |
| 1570703890 | MOVE Mobility Model in GreedLea Routing Protocol for Internet of Vehicle (IoV) Network | Intelligent System, Communication and Soft Computing | Normaliza Omar; Naimah Yaakob; Mohamed Elshalkh; Zulkifli Bin Husin | Normaliza Omar | SESSION 5 | 1500 - 1515 |
| 1570703950 | A Tuned Version of Ant Colony Optimization Algorithm (TACO) for Uniform Strength T-Way Test Suite Generator: An Execution's Time Comparison | Intelligent System, Communication and Soft Computing | Mohd Zamri Zahir Ahmad; Rozmie Razif Othman; Nuraminah Ramli; Mohd Shaiful Aziz Rashid Ali; Mohd Wafi Nasrudin; Ahmad Ashraf Abdul Halim | Mohd Zamri Zahir Ahmad | | 1515 - 1530 |
| 1570704020 | Mobile-Based Application for Emotion Recognition Using Convolutional Neural Network | Intelligent System, Communication and Soft Computing | Alia Syahrirah Badrul Hisham; Nur Nabilah Abu Mangshor | | | 1530 - 1545 |
| 1570704021 | Mobile Application for Acne Type Recognition Using YOLO | Intelligent System, Communication and Soft Computing | Nur Ashiqin Mat Isa; Nur Nabilah Abu Mangshor | | | 1545 - 1600 |

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| 1570704060 | Warranty Claim Quantity Forecasting via Multiple Linear Regressions | Intelligent System, Communication and Soft Computing | Nursafian Bin Haris; Ahmad Kadri Junoh; Wan Zuki Azman Wan Muhamad | Nursafian Haris | SESSION 6 | 1600 - 1615 |
| 1570704062 | Mobile-Based Speech Recognition for Early Reading Assistant | Intelligent System, Communication and Soft Computing | Muhammad Adlan Mohd Faisal; Siti Azura Ramlan; Aini Hafizah Mohd Saod; Aiza Mahyuni Mozi; Fazrul Faiz Zakaria | Muhammad Adlan Mohd Faisal | | 1615 - 1630 |
| 1570704562 | Watermarking Scheme for Using YCbCr Based on 2-Level DWT | Intelligent System, Communication and Soft Computing | Ahmed Alkhayyat | | SESSION 6 | 1500 - 1515 |
| 1570704654 | AR Heart: A Development of Healthcare Informative Application Using Augmented Reality | Intelligent System, Communication and Soft Computing | Rusnida Romli | | | 1515 - 1530 |
| 1570708097 | Theoretical Extended Reality Framework for Designing Intensive Training in Virtual Semiconductor Laboratories Based Industry 4.0 Learning Environments | Intelligent System, Communication and Soft Computing | Phaklen Ehkan; Rizalafande Che Ismail | | | 1530 - 1545 |
| 1570698317 | Hand Gesture Controlled a Low Cost 3-D Printed Arm Using Android Application | Mechatronic Engineering | Nurul Muthmainnah Mohd Noor | Nurul Muthmainnah Mohd Noor | | 1545 - 1600 |
| 1570696389 | Modeling and Simulation for Integrating Four Reactors in the Continuous Catalytic Regeneration Reforming Process Using MATLAB | Others | Badiea S. Babaqi | Badiea Babaqi | | 1600 - 1615 |
| 1570701453 | Effect of Sodium Hydroxide on Mechanical Characteristics of Kenaf Fibers Reinforced Concrete | Others | Abdullah Baarimah | Abdullah Baarimah | | 1615 - 1630 |
| 1570704596 | Implementation of Simon's Algorithm in the Encryption Process of Publish-Subscribe Data Sending in the MQTT Protocol Using the Raspberry | Others | Heru Nurwarsito; Samudra Yapputra | Heru Nurwarsito | | 1630 - 1700 |