

## PROGRAM SCHEDULE

Wednesday, October 15, 2025

| TIME          | EVENT   | EVENT DETAILS   |   |   |  |
|---------------|---|---|---|---|--|
| 08:00-09:00   |   | Participants enter conference hall (Teater Komputer 2) & virtual conference room  |   |   |  |
| 09:00-09:10   | Opening Ceremony  | Welcome Speech by Dean, Faculty of Computing, Universiti Malaysia Pahang Al-Sultan Abdullah<br><b>(Assoc. Prof. Ts. Dr. Adzhar Kamaludin)</b>   |   |   |  |
| 09:10-09:20   |   | Launching Speech by Deputy Vice-Chancellor (Research & Innovation) Universiti Malaysia Pahang Al-Sultan Abdullah<br><b>(Prof. Ts. Dr. Aida Mustapha)</b>  |   |   |  |
| 09:20-10:00   | Plenary 1   | Invited Keynote Speaker 1:<br><b>Prof. Ts. Dr. Aida Mustapha</b><br><i>Deputy Vice-Chancellor (Research &amp; Innovation), Universiti Malaysia Pahang Al-Sultan Abdullah, Malaysia</i>                |   |   |  |
| 10:00-10:30   |   | Break Time  |   |   |  |
| 10:30-11:15   | Plenary 2   | Invited Keynote Speaker 2:<br><b>Dr. Hilal Hudan Nuha</b><br><i>Head of the Communication and Information Technology Infrastructure Research Group, Telkom University, Indonesia</i>                  |   |   |  |
| 11:15-12:00   | Plenary 3   | Invited Keynote Speaker 3:<br><b>Ir. Dr. Megat Zuhairy bin Megat Tajuddin</b><br><i>Chief Executive of NACSA<br/>National Cyber Security Agency, National Security Council (NACSA, NSC), Malaysia</i> |   |   |  |
| 12:00-14:00   |   | Break Time  |   |   |  |
|               |   | <b>Parallel Session</b>   |   |   |  |
| 14:00 - 15:30 | Room 1: BZ-01-110<br>Image Processing, Control and Robotics Session 1 | Room 2: BZ-01-112<br>Software Engineering and Knowledge Engineering   | Room 3: BZ-01-124<br>IOT, Big Data Analytics and AI Session 1 | Room 4: BZ-01-127<br>IOT, Big Data Analytics and AI Session 2 |  |
| 15:30 - 16:00 |   | Break Time  |   |   |  |
|               |   | <b>Parallel Session</b>   |   |   |  |
| 16:00 - 17:30 | Room 1: BZ-01-110<br>Image Processing, Control and Robotics Session 2 | Room 2: BZ-01-112<br>IOT, Big Data Analytics and AI Session 3   | Room 3: BZ-01-124<br>IOT, Big Data Analytics and AI Session 4 | Room 4: BZ-01-127<br>IOT, Big Data Analytics and AI Session 5 |  |

## PROGRAM SCHEDULE

Thursday, October 16, 2025

| TIME         | EVENT DETAILS  |  |  |  |
|--------------|--|--|--|--|
| 08:00-09:00  | Participants enter virtual conference room                       |  |  |  |
| 09:00 -10:30 | <b>Parallel Session</b>  |  |  |  |
|              | Room 1<br>IOT, Big Data<br>Analytics and AI<br>Session 6         | Room 2<br>IOT, Big Data<br>Analytics and AI<br>Session 7         | Room 3<br>Network and<br>Communication<br>Session 1      | Room 4<br>Image Processing,<br>Control and<br>Robotics Session 3 |
|              | Room 5<br>Cyber Security and<br>Privacy                          | Room 6<br>Image Processing,<br>Control and<br>Robotics Session 4 |  |  |
| 10:30 -11:00 | Break Time   |  |  |  |
| 11:00 -12:30 | <b>Parallel Session</b>  |  |  |  |
|              | Room 1<br>Image Processing,<br>Control and<br>Robotics Session 5 | Room 2<br>IOT, Big Data<br>Analytics and AI<br>Session 8         | Room 3<br>IOT, Big Data<br>Analytics and AI<br>Session 9 | Room 4<br>IOT, Big Data<br>Analytics and AI<br>Session 10        |
|              | Room 5<br>IOT, Big Data<br>Analytics and AI<br>Session 11        | Room 6<br>Network and<br>Communication<br>Session 2              |  |  |

## PROGRAM SCHEDULE – Parallel Session Schedule

### Room 1 (Image Processing, Control and Robotics Session 1)

Wednesday, October 15, 2025, Session Chair: Ts. Dr. Muhammad 'Arif Bin Mohamad

| No | Times         | Paper ID     | Titles & Authors  |
|----|---------------|--------------|---|
| 1  | 14.00 - 14.15 | [1571197367] | Hybrid Firefly Algorithm and You Only Look Once v8 Framework (FA-YOLOv8) for Traffic Light Detection<br><i>Muhammad Adhwa; Muhammad Arif Mohamad; Zalili Musa</i>           |
| 2  | 14.15 - 14.30 | [1571179024] | Real-Time People Detection for Automatic Fan Control of Eco Breeze DC Fan<br><i>Zainah Binti Md Zain</i>  |
| 3  | 14.30 - 14.45 | [1571146416] | Zebra Optimization Algorithm for Feature Selection<br><i>Muhammad Faizan; Muhammad Arif Mohamad</i>   |
| 4  | 14.45 - 15.00 | [1571161007] | Facial Expression Recognition with YOLOv11 and YOLOv12: a Comparative Study<br><i>Umma Aymon; Shazwani Kamarudin; Ahmad Fakhri Ab. Nasir</i>                                |
| 5  | 15.00 - 15.15 | [1571169696] | A Robust and Secure Image Watermarking Scheme Using DWT-DCT-SVD with Randomized Embedding and Optimization<br><i>Jessie Ooi; Siau-Chuin Liew; Syifak Binti Izhar Hisham</i> |
| 6  | 15.15 - 15.30 | [1571158348] | Object Tracking Using Particle Swarm Optimization for License Plate Detection<br><i>Zalili Musa; Nur Afrina Nasuha Mohamed Izeham; Nurul Izzatie Husna Fauzi</i>            |

### Room 2 (Software Engineering and Knowledge Engineering)

Wednesday, October 15, 2025, Session Chair: Profesor Madya Ts. Dr. Noraziah Binti Ahmad

| No | Times         | Paper ID     | Titles  |
|----|---------------|--------------|---|
| 1  | 14.00 - 14.15 | [1571167477] | Experimenting with Metaheuristic Algorithms to Optimize Team Formation Based on Team Formation Contributing Factors in Software Projects<br><i>Azlina Zainuddin; Calvin Chen Siew Kit</i>   |
| 2  | 14.15 - 14.30 | [1571148231] | A New Usability Testing Model for Business Database Transaction Systems Based on McCall's Quality Model<br><i>Noraziah Ahmad; Siti Solehah Othman; Roslina Mohd Sidek</i>   |
| 3  | 14.30 - 14.45 | [1571153924] | A Two-Phase Adaptive Hybrid SCA-PSO Strategy for Efficient Multi-Task Test Redundancy Reduction<br><i>Md Abdul Kader; Kamal Zuhairi Zamli; Azizah Mohamad; Md Anis Mojumder</i>   |
| 4  | 14.45 - 15.00 | [1571180363] | A Hybrid Metaheuristics One-Parameter-at-a-Time (OPAT) Approach for Pairwise Test Case Generation<br><i>Muhammad Sabo Yahaya; Ahmad Sobri Hashim; Abdullateef Oluwagbemiga Balogun; Hussaini Mamman; Shamsu Abdullahi; Al'amin Abdulhamid</i> |
| 5  | 15.00 - 15.15 | [1571186456] | Preliminary Study of Brown Bear and Roulette Wheel Brown Bear for Test Redundancy Reduction Optimization Problem<br><i>Roslina Mohd Sidek; Kamal Zuhairi Zamli; Md Abdul Kader</i>  |
| 6  | 15.15 - 15.30 | [1571184865] | A Combination Technique for Requirement Interdependency in Prioritization: A Case Study of Fall Scenario<br><i>Siti NurSyafiqah Rusli; Rohani Abu Bakar; Siti Suhaila Abdul Hamid; Hasan Kahtan</i>   |

**Room 3 (IOT, Big Data Analytics and AI Session 1)**

**Wednesday, October 15, 2025, Session Chair: Profesor Madya Ts. Dr. Suryanti Binti Awang**

| No | Times         | Paper ID     | Titles  |
|----|---------------|--------------|---|
| 1  | 14.00 - 14.15 | [1571143653] | Multistage Ensemble and Deep Learning Pipeline for Early Heart Attack Risk Prediction Using Vital Signs<br><i>Hani Alnami</i>   |
| 2  | 14.15 - 14.30 | [1571149098] | Energy-Efficient Base Station Placement and Optimization in Multi-Hop Wireless Sensor Networks<br><i>Azammudin Ab. Rahman; Sakib Iqram Hamim; Noor Akma Abu Bakar, Ts; Mohd Hafiz Bin Mohd Hassin</i> |
| 3  | 14.30 - 14.45 | [1571158654] | Applying SVM with One-Vs-Rest Strategy for Multi-Label Classification of Software Requirement in Apps User Reviews<br><i>Amran Salleh</i>   |
| 4  | 14.45 - 15.00 | [1571146399] | Hybrid CNN and LSTM Model for Early Detection of Breast Cancer Using Histopathology Images<br><i>Suryanti Awang; Bariah Yusob</i>   |
| 5  | 15.00 - 15.15 | [1571182613] | Vehicle Type Classification Using Fine-Tuned Resnet-50 CNN for Heavy Vehicles<br><i>Suryanti Awang</i>  |
| 6  | 15.15 - 15.30 | [1571166813] | Comparative Analysis of ESP8266, ESP32, and ESP32-S3 for Smart Speaker-Based Support in Borderline Personality Disorder<br><i>Ridwan Sanjaya; Andre Kurniawan Pamudji; Wibhowo Christin</i>           |

**Room 4 (IOT, Big Data Analytics and AI Session 2)**

**Wednesday, October 15, 2025, Session Chair: Ts. Dr. Zuriani Binti Mustaffa**

| No | Times         | Paper ID     | Titles  |
|----|---------------|--------------|---|
| 1  | 14.00 - 14.15 | [1571143120] | Exposing Privacy Risks in Depression Classifiers: a Membership Inference Analysis on DAIC-WOZ<br><i>Hassan Shafei</i>   |
| 2  | 14.15 - 14.30 | [1571163427] | Burnout Prediction a Comparative Analysis of Machine Learning and Deep Learning Approaches<br><i>Nureen Afiqah Mohd Zaini; Nur Syafiqah M.nafis; Suryanti Awang; Putu Harry Gunawan; Mohammed Ahmed Talab</i>                         |
| 3  | 14.30 - 14.45 | [1571156718] | Optimizing LSTM S2S Models with Evolutionary Mating Algorithm (EMA) for Direct Multi-Step Forecasting of Household Electrical Power Consumption<br><i>Md Habib Al Mamun; Zuriani Mustaffa; Junaida Sulaiman; Mohd Herwan Sulaiman</i> |
| 4  | 14.45 - 15.00 | [1571166754] | NMF-LSTM Analytical Model for Interpretation and Classification of TripAdvisor Hotel Reviews<br><i>Albertus Dwiyoga Widiantoro; Ridwan Sanjaya; Bernardinus Harnadi; Usman Ependi; Ahmad Abdul Chamid</i>                             |
| 5  | 15.00 - 15.15 | [1571167088] | XSS Attack Classification in IoT Network with Machine Learning Algorithm<br><i>Muhammad Aliff Aiman bin Shahni; Ameerah Muhsinah binti Jamil; Shakirah Saidin; Muhammad Ridhwan bin Ishak</i>   |
| 6  | 15.15 - 15.30 | [1571161172] | A Blockchain-Based Conceptual Framework for Real-Time Collision Prevention in Autonomous Vehicle<br><i>Fasee Ullah; Md Tahmid Ashraf Chowdhury; Hitham Alhussian; Shoab Ul Hassan; Najmul Haque</i>                                   |

**Room 1 (Image Processing, Control and Robotics Session 2)**

**Wednesday, October 15, 2025, Session Chair: Dr. Mahfuzah Binti Mustafa**

| No | Times         | Paper ID     | Titles  |
|----|---------------|--------------|---|
| 1  | 16.00 - 16.15 | [1571186492] | Comparative Analysis of CNN-Based Breast Cancer Classification on Mammogram Images<br><i>Nor Amizam Jusoh; Zalili Musa; Rohani Abu Bakar</i>  |
| 2  | 16.15 - 16.30 | [1571158353] | A PSO-Based Approach for Real-Time Localization of a Moving Node Using RSS Measurements<br><i>Zalili Musa; Koong Jun Xiang; Rohani Abu Bakar; Riky Dwi Puriyanto</i>                              |
| 3  | 16.30 - 16.45 | [1571185813] | Solving Optimal Overcurrent Relays' Coordination Problem Using Modified Barnacles Mating Optimizer<br><i>Arif Fahmi bin Zulaffandi; Noor Zaihah Jamal; Sulastri Abdul Manap</i>                   |
| 4  | 16.45 - 17.00 | [1571193801] | A Comparative Study of Web Page Classification Models Using Convolutional Neural Networks and Image-Based Features<br><i>Siti Hawa Apandi; Jamaludin Sallim; Rozlina Mohamed</i>                  |
| 5  | 17.00 - 17.15 | [1571169892] | Analysis of Relief Based Algorithm (RBA) for Electromyography (EMG) Signals in the Application of Driver Drowsiness Detection<br><i>Faradila Naim; Mahfuzah Mustafa</i>                           |
| 6  | 17.15 - 17.30 | [1571185721] | Non-Player Character Behavior Using Particle Swarm Optimization in the Defend-Attacker Game<br><i>Bariah Yusob; Tuty Asmawaty Abdul Kadir; Isman Kurniawan; Erwin Budi Setiawan; Gamma Kosala</i> |

**Room 2 (IOT, Big Data Analytics and AI Session 3)**

**Wednesday, October 15, 2025, Session Chair: Ts. Dr. Nur Shazwani Binti Kamarudin**

| No | Times         | Paper ID     | Titles   |
|----|---------------|--------------|--|
| 1  | 16.00 - 16.15 | [1571186133] | Freshness Classification of Lady's Fingers Using CNN and Transfer Learning<br><i>Nur Afrina Nasuha Mohamed Izeham; Putra Sumari; Siti Salwani Yaacob; Noormaizzattul Akmaliza Abdullah; Hairulnizam Mahdin; Hailiza Kamarulhaili</i>   |
| 2  | 16.15 - 16.30 | [1571191811] | Improving Match Detection Process in the GCCD Model for C Applications Using Chi-Square Distance<br><i>Nurul Syafiqah Zaidi; Al-Fahim Mubarak-Ali; Abdul Sahli Fakhardin; Rahiwan Nazar Romli</i>  |
| 3  | 16.30 - 16.45 | [1571185337] | Detecting Suicidal Ideation in Text with Interpretable Deep Learning: a CNN-BiGRU with Attention Mechanism<br><i>Mohaiminul Islam Bhuiyan; Shazwani Kamarudin; Nur Hafieza Ismail</i>  |
| 4  | 16.45 - 17.00 | [1571145366] | Sentiment Analysis on YouTube Comments Using Machine Learning Techniques Based on Video Games Content<br><i>Shazwani Kamarudin; M. Zulfahmi Toh; Nur Syafiqah M.nafis; Mohaiminul Islam Bhuiyan</i>  |
| 5  | 17.00 - 17.15 | [1571169887] | Sliding Window-Based Evaluation of Validator Nodes in Blockchain Federated Byzantine Agreement<br><i>Erdhi Widyarto Nugroho; R Rizal Isnanto; Luhur Bayuaji</i>  |
| 6  | 17.15 - 17.30 | [1571175093] | Enhancing Parameterization Process with Protected Access Weightage Value in Generic Code Clone Detection Model for Java Applications<br><i>Noormaizzattul Akmaliza Abdullah; Mohd Azwan Mohamad; Al-Fahim Mubarak-Ali; Shakirah Saidin; Sitha Gunasegran; Ameerah Muhsinah binti Jamil</i> |

**Room 3 (IOT, Big Data Analytics and AI Session 4)**

**Wednesday, October 15, 2025, Session Chair: Ts. Dr. Tuty Asmawaty Binti Abdul Kadir**

| No | Times         | Paper ID     | Titles  |
|----|---------------|--------------|---|
| 1  | 16.00 - 16.15 | [1571163036] | A Nonlinear Sine Cosine Algorithm Approach to Designing a One-Degree-of-Freedom Sigmoid PID Controller for Automatic Voltage Regulators<br><i>Islam Ahmed; Mohd Helmi Bin Suid; Mohd Ashraf Ahmad; Salmiah Ahmad; Mohd Falfazli Mat Jusof; Mohd Zaidi Mohd Tumari</i> |
| 2  | 16.15 - 16.30 | [1571169773] | Calibrating a COVID-19 System Dynamics Model with Multi-Country Cases to Enhance Model Validity<br><i>Aisyah Ibrahim; Tuty Asmawaty Abdul Kadir; Rod MacDonald; Hamdan Daniyal</i>  |
| 3  | 16.30 - 16.45 | [1571141406] | Bio-Inspired Swarm Intelligence for Optimized Energy-Efficient Computing in Smart IoT Ecosystems<br><i>Mohammed Fakhreldin; Fathe Jeribi; Yagoub Abbker Adam; Ahmed Khawaji; Haithm Elhadi; Alfadil Ahmed Hamdan</i>  |
| 4  | 16.45 - 17.00 | [1571185547] | A Multilayer Perceptron Approach to Detecting Mental Health Conditions from Music Preferences<br><i>Nur Hafieza Ismail; Muhammad Al Hafizul Al Holidin; Mohd Nazrul Faiz Md Nasir; Nur Syaftiqah M.nafis; Ahmad Fakhri Ab. Nasir</i>                                  |
| 5  | 17.00 - 17.15 | [1571185748] | Multi-Agent Pathfinding Simulation for Evacuation in Dynamic Indoor Environment<br><i>Nurul Ishafira Ismail; Siti Normaziah Ihsan; Tuty Asmawaty Abdul Kadir</i>  |
| 6  | 17.15 - 17.30 | [1571158061] | Deep Learning Approaches to Detect Mental Health Concerns in Cancer Survivors' Social Media Narratives<br><i>Zaber Al Hassan Ayon; Nur Hafieza Ismail; Shazwani Kamarudin; M. Zulfahmi Toh</i>  |

**Room 4 (IOT, Big Data Analytics and AI Session 5)**

**Wednesday, October 15, 2025, Session Chair: Profesor Ts. Dr. Kamal Zuhairi Bin Zamli**

| No | Times         | Paper ID     | Titles  |
|----|---------------|--------------|---|
| 1  | 16.00 - 16.15 | [1571146406] | Predicting Machine Failures in Industrial Systems: A Comparative Analysis of AutoML-Based Multiclass Classification Models<br><i>Abbas Saliimi Lokman; Ummu Kulthum Jamaludin</i>                         |
| 2  | 16.15 - 16.30 | [1571180605] | A Relay-Based Hybrid PSO Jaya Algorithm for Efficient Test Redundancy Reduction<br><i>Md Anis Mojumder; Kamal Z Zamli; Md Abdul Kader; Montasir Qasymeh; Mahmoud Mistarihi</i>                            |
| 3  | 16.30 - 16.45 | [1571156115] | A Comparative Evaluation of Heuristic and Metaheuristic Job Scheduling Algorithms for Optimized Resource Management in Cloud Environments<br><i>Najmul Haque; Zafril Rizal M Azmi; Saydul Akbar Murad</i> |
| 4  | 16.45 - 17.00 | [1571170242] | Integration of YOLOv4 Architecture into a Mixed Food Price Analysis as an Automated Cashier System<br><i>Syaftiq Fauzi Kamarulzaman; Muhammad Danial Bin Mohamad Rizwan; Lavindar Singh</i>               |
| 5  | 17.00 - 17.15 | [1571170816] | A Confined Emergency Intercom System (CEISys) Utilizing MQTT and WebRTC as an Emergency Communication Platform<br><i>Syaftiq Fauzi Kamarulzaman</i>   |
| 6  | 17.15 - 17.30 | [1571178790] | Development of Self-Alignment Mobile Robot Using Deep Learning for Visual Feedback and Precise Orientation<br><i>Nor Ashikin Mazlan; Mohd Razali Daud; Amir Izzani Mohamed</i>                            |

**Room 1 (IOT, Big Data Analytics and AI Session 6)**

**Thursday, October 16, 2025, Session Chair: Ts. Dr. Ziti Fariha Binti Mohd Apandi**

| No | Times         | Paper ID     | Titles  |
|----|---------------|--------------|---|
| 1  | 09.00 - 09.15 | [1571146906] | Tourist Routes Recommender System in Yogyakarta Using K-Means and Simulated Annealing Algorithm<br><i>Lulu Maudhuna Alfani; ZK Abdurahman Baizal</i>  |
| 2  | 09.15 - 09.30 | [1571143505] | An Integrated IoT and Robotics Framework for Smart Waste Management in Urban Environments<br><i>Nada Masood Mirza; Adnan Ali; Nura Shifa; Mohamad Khairi Ishak; Mohd Shahrime Mohd Asaari</i> |
| 3  | 09.30 - 09.45 | [1571143507] | Leveraging IoT for Personalized Diabetes Management: Predictive Analytics and Remote Monitoring<br><i>Nada Masood Mirza</i>   |
| 4  | 09.45 - 10.00 | [1571167873] | A Hierarchical Shifted-Window Time Series Transformer for Stock Market Index Price Forecasting<br><i>Tan Yee Yang; Tan Chye Cheah</i>   |
| 5  | 10.00 - 10.15 | [1571168354] | A Tiered Genetic Algorithm Approach for Optimizing Rig Scheduling in Mature Oilfields: Enhancing Efficiency and Sustaining Production<br><i>Agung Dwi Wahyono; Arta Moro Sundjaja</i>         |
| 6  | 10.15 - 10.30 | [1571186131] | Multitask Strategy for Test Redundancy Reduction Optimization<br><i>Amna Rizwan; Kamal Zuhairi Zamli; Atif Aftab Ahmed Gilani; Muhammad Rizwan Ghori; Zaheer Masood</i>                       |

**Room 2 (IOT, Big Data Analytics and AI Session 7)**

**Thursday, October 16, 2025, Session Chair: Ts. Dr. Ahmad Fakhri Bin Ab. Nasir**

| No | Times         | Paper ID     | Titles  |
|----|---------------|--------------|---|
| 1  | 09.00 - 09.15 | [1571155584] | Machine Learning-Based Classification of Autism Spectrum Disorder from Behavioural Questionnaires<br><i>Md Nirob Khan; Kohbalan Moorthy; Mohd Arfian Arfian Bin Ismail; Weng Howe Chan</i>  |
| 2  | 09.15 - 09.30 | [1571186064] | Arrhythmia Classification in Noisy ECG Using Smoothing-Based Segmentation and Learning Models<br><i>Ziti Fariha Mohd Apandi</i>   |
| 3  | 09.30 - 09.45 | [1571170404] | Controlling Temperature, Humidity, and Monitoring Ammonia Gas in an Android-Based Goat Pen Using Fuzzy Logic Method<br><i>Desta Yolanda; Rizka Hadelina; Arya Anandika</i>  |
| 4  | 09.45 - 10.00 | [1571153389] | Towards Optimised SORT Tracking Algorithm: Tuning the Feature Extractor Base-Model<br><i>Ahmad Fakhri Ab. Nasir; Tanveer Kader; M. Zulfahmi Toh; Suryanti Awang; Anwar PP Abdul Majeed</i>  |
| 5  | 10.00 - 10.15 | [1571145134] | An IoT-Based Smart Treadmill System Using RFID Authentication and Hall Effect Sensing with HTTP Communication to a Cloud-Hosted Backend<br><i>Nadya P Simulingga; Hilal Huda; Ikke Dian Oktaviani; Abdi T Talib Abdalla</i>   |
| 6  | 10.15 - 10.30 | [1571182662] | Exploring the Influence of Feature Selection Methods for Neural Network Models on Petrochemical Wastewater Data<br><i>Varun Geetha Mohan; Afrig Aminuddin; Al-Fahim Mubarak-Ali; Mohamed Ariff Amedeen; Wan Nurulsafawati Wan Manan; Ku Saimah Binti Ku Ibrahim</i> |

**Room 3 (Network and Communication Session 1)**

**Thursday, October 16, 2025, Session Chair: Ts. Dr. Noorhuzaimi@ Karimah Binti Mohd Noor**

| No | Times         | Paper ID     | Titles   |
|----|---------------|--------------|--|
| 1  | 09.00 - 09.15 | [1571180579] | Assessing Load Uncertainty in the Optimal Allocation of Photovoltaic Distributed Generation in Radial Distribution Network<br><i>Nur Syazana Mohd Sayuti; Norhafidzah Mohd Saad; Muhamad Zahim Sujod; Mohd Shahrin Abu Hanifah; Mohd Ikhwan Muhammad Ridzuan; Mohammad Fadhil Abas</i> |
| 2  | 09.15 - 09.30 | [1571145284] | Backend Module Development and Response Time Analysis on Client Server Communication for Digital Content Reporting Website<br><i>Ahmad Faiz Fadillah; Hilal Huda; Muhammad Ali Oureshi</i>   |
| 3  | 09.30 - 09.45 | [1571157639] | Configuration Analysis for Firewall Implementation with Multi-Level Microsegmentation as Server Protection on Digital Content Reporting Website<br><i>Fadhillah Maulana; Hilal Huda; Ashik Alam</i>  |
| 4  | 09.45 - 10.00 | [1571170068] | Optimal Reactive Power Dispatch (ORPD) Using Flow Direction Algorithm for Transmission Loss Minimization Considering (N-1) Contingencies<br><i>Nor Rul Hasma Abdullah; Muhammad Irfan Kamarulafiah; Mahaletchumi Maha; Rosdiyana Samad; Mahfuzah Mustafa</i>                           |
| 5  | 10.00 - 10.15 | [1571169745] | Identification of Security Vulnerabilities of XYZ Website Using Open Web Application Security Project Zed Attack Proxy and Nikto<br><i>Ajriya Luthfi; Muhamad Irsan</i>  |

**Room 4 (Image Processing, Control and Robotics Session 3)**

**Thursday, October 16, 2025, Session Chair: Dr. Nurul Izzatie Husna Binti Fauzi**

| No | Times         | Paper ID     | Titles   |
|----|---------------|--------------|--|
| 1  | 09.00 - 09.15 | [1571153236] | Optimized Semantic Segmentation for Fish Detection Using DeepLabv3 and MobileNetV3 on Resource-Constrained Systems<br><i>Jonathan Arya Wibowo; Walid Hanif Atallah; Isa Mulia Insan; Sheina Fathur Rahman; Muhammad Al Makky; Rio Guntur Utomo</i> |
| 2  | 09.15 - 09.30 | [1571186039] | Object Detection Using Midrange Exploration Exploitation Searching Particle Swarm Optimization in Surveillance Challenges<br><i>Nurul Izzatie Husna Fauzi; Zalili Musa; Nur Afrina Nasuha Mohamed Izeham; Shahrinaz Ismail</i>                     |
| 3  | 09.30 - 09.45 | [1571170899] | Deep Learning Approach to Yawn Detection in Drivers During Nighttime Driving<br><i>Mahfuzah Mustafa; Rosdiyana Samad; Nor Rul Hasma Abdullah; Norizam Bin Sulaiman; Nurul Hazlina Noordin</i>  |
| 4  | 09.45 - 10.00 | [1571166623] | A Smart Traffic Light Modeling Using AnyLogic Simulation<br><i>Husnul Ajra; Md. Shohidul Islam; Mazlina Abdul Majid; Noshin Tabassum</i>   |
| 5  | 10.00 - 10.15 | [1571174425] | DAFNet-Res: a Hybrid-Attentive Decoder Network with CLAHE-Enhanced Supervision for Retinal Vessel Segmentation<br><i>Md Mominul Haque; Saipunidzam Mahamad; Suziah Sulaiman; Abdullateef Oluwagbemiga Balogun; Kanneh Momoh</i>                    |
| 6  | 10.15 - 10.30 | [1571146920] | Video Game Hybrid Recommender System Using Sentiment Analysis of User Reviews<br><i>Annisa Izzatul Latifa; ZK Abdurahman Baizal</i>  |

**Room 5 (Cyber Security and Privacy)**

**Thursday, October 16, 2025, Session Chair: Profesor Madya Ts. Dr. Mohd Faizal Bin Ab Razak**

| No | Times         | Paper ID     | Titles  |
|----|---------------|--------------|---|
| 1  | 09.00 - 09.15 | [1571185550] | Optimization Techniques for Enhancing Artificial Neural Network Performance in Network Intrusion Detection Using Differential Evolution<br><i>Muhammad Muhammad Farhan; Ghefin Indra; Farizsyah Razif January; Widya Herry Mulyani; Muhammad Thariq Akmal; Hassan Rizky Putra Sailallah; Rio Guntur Utomo</i> |
| 2  | 09.15 - 09.30 | [1571147452] | A Hybrid GRU-MLP Approach for UPI Fraud Detection in Enhancing Digital Payment Security<br><i>Shadab Alam</i>   |
| 3  | 09.30 - 09.45 | [1571185478] | Integrated Log Management with WAZUH and OPNsense for Mitigating Brute Force Attacks in Cloud Infrastructure<br><i>Achmad A. Setiawan; Muhamad Irsan</i>  |
| 4  | 09.45 - 10.00 | [1571185122] | Integrating Self-Protection into DevSecOps Framework for Defense Against Threat<br><i>Aditya Dwi Putra Nugraha; Muhamad Irsan</i>   |
| 5  | 10.00 - 10.15 | [1571157760] | Network Anomaly Detection for Intrusion Detection Systems Using Q-Learning and Deep Q-Learning: A Reinforcement Learning Approach<br><i>Ahitama Wichaksono; Parman Sukarno; Aulia Arif Wardana</i>  |
| 6  | 10.15 - 10.30 | [1571157766] | Unsupervised Learning Approach for Network Anomaly Detection with Thresholding Reconstruction Error Based on Deep Autoencoder<br><i>Karin Hagaina Ginting; Parman Sukarno; Aulia Arif Wardana</i>   |

**Room 6 (Image Processing, Control and Robotics Session 4)**

**Thursday, October 16, 2025, Session Chair: Ts. Dr. Zalili Binti Musa**

| No | Times         | Paper ID     | Titles  |
|----|---------------|--------------|---|
| 1  | 09.00 - 09.15 | [1571184262] | Performance Evaluation of Mobile Net V2, VGG19, and MobileNet V3 for Larger Detection of Wheat Rust Disease<br><i>Zainab Muhammd; Ahmed Kh. Younis</i>  |
| 2  | 09.15 - 09.30 | [1571184023] | Accelerating Deep Reinforcement Learning for Mobile Robot Path Planning with Curriculum Learning and Reward Shaping<br><i>Ting Li; Hazirah Bee Yusof Ali; Mohammmd Kazem Chamran</i>                                    |
| 3  | 09.30 - 09.45 | [1571170133] | Balancing DeepFake Detection Using Weighted Loss and Sampling with R3D-18<br><i>Derisma; Dodon Yendri; Meza Silvana</i>   |
| 4  | 09.45 - 10.00 | [1571170822] | Classification of Kidney Disease from CT Images: A Deep Learning-Based Comparative Analysis<br><i>Md Nazir Hossain; Emu Bhuiyan; Mohammad Badrul Alam Miah; Suryanti Awang; Md. Safayat Hossain; Tanvir Ahmed Sifat</i> |
| 5  | 10.00 - 10.15 | [1571170823] | AlzCNN: a Custom CNN Architecture for Alzheimer's Stage Detection from MRI Images<br><i>Md. Safayat Hossain; Most. Jebun Nahar Juthy; Mohammad Badrul Alam Miah; Suryanti Awang; Md Nazir Hossain; Emu Bhuiyan</i>      |

**Room 1 (Image Processing, Control and Robotics Session 5)**

**Thursday, October 16, 2025, Session Chair: Profesor Madya Dr. Ferda Ernawan**

| No | Times         | Paper ID     | Titles  |
|----|---------------|--------------|---|
| 1  | 11.00 - 11.15 | [1571188225] | A Hybrid DWT-DST-SVD Watermarking Scheme with Spread Spectrum Using Robust Image Protection<br><i>Ari Syafi Adipurnomo; Gelar Budiman; Ledy Novamizanti</i>                     |
| 2  | 11.15 - 11.30 | [1571162364] | A Block Mapping Strategy for Self-Recovery in Image Watermarking<br><i>Agit Amrullah; Ferda Ernawan</i>   |
| 3  | 11.30 - 11.45 | [1571163002] | Robust Image Watermarking Based on NSST-IWT for Protecting Digital Image<br><i>Muhammad Afnan Hafidz; Ferda Ernawan; Siti Nur Avivah; Ledy Novamizanti; Mohammed Fakhreldin</i> |
| 4  | 11.45 - 12.00 | [1571185853] | Utilizing Stereo Panning Features in Countering Audio anti-Forensic Activities<br><i>Thoriq Putra Renaldi; Niken Cahyani; Rimba Whidiana Ciptasari</i>                          |

**Room 2 (IOT, Big Data Analytics and AI Session 8)**

**Thursday, October 16, 2025, Session Chair: Ts. Dr. Kohbalan A/L Moorthy**

| No | Times         | Paper ID     | Titles   |
|----|---------------|--------------|--|
| 1  | 11.00 - 11.15 | [1571185322] | Estimating Round-Trip Time Using Machine Learning Models: A Comparative Study of SVM, GAM, and Linear Regression<br><i>Hassan Rizky Putra Sailallah; Gatot Santoso; Setyorini Setyorini</i>  |
| 2  | 11.15 - 11.30 | [1571170864] | Evaluating Deep Learning Models Using MediaPipe Features for Sign Language Recognition<br><i>Ma Xian Xi; Rosdiyana Samad; Nor Rul Hasma Abdullah; Nurul Hazlina Noordin; Mahfuzah Mustafa; Dwi Pebrianti</i>                           |
| 3  | 11.30 - 11.45 | [1571170649] | Deep Learning Environmental Sound Recognition System for Hearing-Impaired Individuals in Noisy Environments<br><i>Nur Ayuni Zamri; Rosdiyana Samad; Nor Rul Hasma Abdullah; Nurul Hazlina Noordin; Mahfuzah Mustafa; Dwi Pebrianti</i> |
| 4  | 11.45 - 12.00 | [1571155913] | An Explainable Deep Learning Approach for Multi-Class News Classification<br><i>Md Raihanul Islam Tomal; Kohbalan Moorthy; Mazlina Abdul Majid; Muhammad Akmal Remli; Agus Pratondo</i>  |
| 5  | 12.00 - 12.15 | [1571158066] | Enhancing Financial Sentiment Analysis Using ML Models: A Comparative Study of Balanced vs. Imbalanced Datasets<br><i>Mahmudul Haque Shakir; Sunipun Seemanta; Riya Das; Md Saef Ullah Miah; Junaida Sulaiman</i>                      |
| 6  | 12.15 - 12.30 | [1571145334] | DYL-Leaf: A Lightweight Distilled YOLO-Based Model for Plant Leaf Disease Classification<br><i>Touhid Alam; Abir Bokhtiar; Md Saef Ullah Miah; Junaida Sulaiman</i>  |

**Room 3 (IOT, Big Data Analytics and AI Session 9)**

**Thursday, October 16, 2025, Session Chair: Profesor Madya Ts. Dr. Mohd Arfian Bin Ismail**

| No | Times         | Paper ID     | Titles   |
|----|---------------|--------------|--|
| 1  | 11.00 - 11.15 | [1571146921] | Pipeline Hybridization of Autoencoder and Singular Value Decomposition for Multi-Criteria Recommender System<br><i>Atha Ahsan Xavier Haris; ZK Abdurahman Baizal</i>   |
| 2  | 11.15 - 11.30 | [1571146987] | TimeSVD++-Based Movie Recommendation Model by Considering Temporal Changes in User Interests<br><i>Muh. Ghazali; ZK Abdurahman Baizal</i>  |
| 3  | 11.30 - 11.45 | [1571148148] | Enhancing Electronic Signature Systems Through Large Language Models for Automated Document Data Extraction<br><i>Muhammad Isa Al Anshori; Rahmat Yasirandi; Isa Mulia Insan</i>   |
| 4  | 11.45 - 12.00 | [1571182475] | Learning Socially Compliant Navigation with a Proxemics-Informed Composite Reward Function<br><i>Qichao Jiang; Hazirah Bee Yusof Ali; Mohammmad Kazem Chamran</i>  |
| 5  | 12.00 - 12.15 | [1571153292] | Identifying Distinct Borrower Profiles in University Libraries Using K-Means Clustering: A Case Study of Songkhla Rajabhat University<br><i>Phuriwat Panich; Sarawut Penchai; Nalinee Inthamano; Seree Chanah; Sasalak Tongkaw</i> |
| 6  | 12.15 - 12.30 | [1571164050] | MonBarta: Deep Dive into Psychological Diagnosis of Mental Health Conversations Using LLM<br><i>Saidur Rahman Sujon; Ahmadul Karim Chowdhury; Ashek Seum; Anup Kumar Sutradhar; Faisal Muhammad Shah</i>                           |

**Room 4 (IOT, Big Data Analytics and AI Session 10)**

**Thursday, October 16, 2025, Session Chair: Dr. Noorlin Binti Mohd Ali**

| No | Times         | Paper ID     | Titles  |
|----|---------------|--------------|---|
| 1  | 11.00 - 11.15 | [1571169661] | TB Vision: An Integrated AI-Based Mobile and Web Framework for Latent Tuberculosis Infection Screening and Clinical Management<br><i>Leong Tin Jet; Tan Chye Cheah</i>  |
| 2  | 11.15 - 11.30 | [1571154934] | An Embedded Virtual Metrology Tree-Based Model of Machine Learning in Semiconductor Fabrication Application<br><i>Ya Wei Chen; Shaohua Chang; Eric Chien</i>  |
| 3  | 11.30 - 11.45 | [1571145252] | Vision Transformer Model for Metal Surface Defect Classification<br><i>Ahmad Fakhri Ab. Nasir; Ee Ken-Ji; Shazwani Kamarudin; Nur Hafieza Ismail; Ismail Mohd Khairuddin</i>  |
| 4  | 11.45 - 12.00 | [1571147018] | Validation of Enhancement of Information Technology Hardware Support Model Service Towards the Service Quality<br><i>Azham Ahmad; Adzhar Kamaludin</i>  |
| 5  | 12.00 - 12.15 | [1571170876] | Design and Implementation of Real-Time Monitoring System for Bird Tracking Applications<br><i>Jonathan Arya Wibowo; Muharman Lubis; Rio Guntur Utomo; Walid Hanif Ataullah; Sheina Fathur Rahman; Isa Mulia Insan</i> |
| 6  | 12.15 - 12.30 | [1571196342] | IoT-Enabled Palm Oil Supply Chain Traceability: Exploiting Dual Channel Diversity<br><i>Muhammad Rizwan Ghori; Kamal Zuhairi Zamli; Amna Rizwan; Zaheer Masood; Zahid Iqbal</i>                                       |

**Room 5 (IOT, Big Data Analytics and AI Session 11)**

**Thursday, October 16, 2025, Session Chair: Ts. Dr. Abdul Sahli Bin Fakhardin**

| No | Times         | Paper ID     | Titles   |
|----|---------------|--------------|--|
| 1  | 11.00 - 11.15 | [1571193116] | The Impact of Oversampling Techniques for Severe Class Imbalance in Credit Card Fraud Detection<br><i>Bima Pramudya Asaddulloh; Afrig Aminuddin; Hesmeralda Rojas Enriquez; Ahmed Adil Nafea; Mohammed Fakhreldin; Ferda Ernawan</i>       |
| 2  | 11.15 - 11.30 | [1571193117] | Evaluating Multiple Classification Algorithms for Diabetes Diagnosis and Prediction on an Imbalanced Dataset<br><i>Muhammad Zein Maulana Akbar; Afrig Aminuddin; Yoga Pristyanto; Sunil Raj Y; Mohammed Fakhreldin; Ferda Ernawan</i>      |
| 3  | 11.30 - 11.45 | [1571155977] | NLP and Data Mining for Fake News Detection<br><i>Ghita Sbai; Yousra Chtouki; Zineb Khachfi</i>  |
| 4  | 11.45 - 12.00 | [1571157878] | A Temperature-Sensitive Battery Internal Resistance Model for Accurate SOC Estimation<br><i>Omer Ali; Mohamad Khairi Ishak; Chia Ai Ooi; Khalid Ammar; Vladimir Tanasiev</i>   |
| 5  | 12.00 - 12.15 | [1571186565] | Heart Disease Prediction Using Machine Learning: A Comparative Analysis of Single and Ensemble Models in Healthcare<br><i>Fatimah Azzahra Binti Mohd Sharifuddin; Abdul Sahli Fakhardin; Al-Fahim Mubarak-Ali; Ziti Fariha Mohd Apandi</i> |
| 6  | 12.15 - 12.30 | [1571185649] | Adaptive Algorithm Selection for Combinatorial Testing: The Relay Hybrid Approach<br><i>Maslita Abd Aziz; Kamal Z Zamli; Zuriani Mustaffa</i>  |

**Room 6 (Network and Communication Session 2)**

**Thursday, October 16, 2025, Session Chair: Profesor Madya Ts. Dr. Rohani Binti Abu Bakar**

| No | Times         | Paper ID     | Titles   |
|----|---------------|--------------|--|
| 1  | 11.00 - 11.15 | [1571145747] | Dynamic Link Cost Weight Assignment for QoS-Based Routing in SDN<br><i>Imran Edzereiq Kamarudin; Mohamed Ariff Ameen</i>   |
| 2  | 11.15 - 11.30 | [1571159049] | Implementation and Analysis of Embedding and Mapping Cross-Domain Recommendation (EMCDR) on the Amazon Review Dataset<br><i>Stefhan Salim; Agung Toto Wibowo</i>   |
| 3  | 11.30 - 11.45 | [1571161057] | Implementation of Domain-Driven Design to Improve Developer Understandability of Web APIs<br><i>Alif Taufiqurrahman; Mira Kania Sabariah; Jati H. Husen; Yijun Lu</i>  |
| 4  | 11.45 - 12.00 | [1571072352] | Performance Analysis of Frequency Synthesizers Under Wireless Local Area Network IEEE 802.11 at 5 GHz Band<br><i>Sanar Ahmed Shehab; Aws Zuheer Yonis</i>  |
| 5  | 12.00 - 12.15 | [1571165627] | Efficient Energy Routing in Wireless Sensor Networks with Artificial Intelligence<br><i>Shireen Bashar Ghanim; Aws Zuheer Yonis</i>  |
| 6  | 12.15 - 12.30 | [1571185951] | CSI-Driven Wireless Sensing for Human Presence Detection Using Convolutional Neural Networks<br><i>Dody Ichwana Putra; Shelvi Ekariani; Arrya Anandika; Nana Sutisna; Omar Fauzi Rahman; Jevon Al Salgus</i> |