CONFERENCE PROGRAM

DAY 1
22 SEPTEMBER 2026

Time	Session
08:00	**Arrival & Registration** *Dewan Putra Perdana, Level 1*
08:45	**Arrival of VIP Guests** *Dewan Putra Perdana, Level 1*
09:00	**Opening Ceremony** **Welcoming Remarks** **Conference Chair, ICSSA 2026** *Dewan Putra Perdana, Level 1*
09:05	**Opening Speech** **Dean, Faculty of Artificial Intelligence, Universiti Teknologi Malaysia** *Dewan Putra Perdana, Level 1*
09:15	**Conference Montage**
09:20	**Keynote Talk 1** **Prof. Dr. Raymond Ooi Chong Heng, Universiti Malaya** *Dewan Putra Perdana, Level 1*
10:20	**Photo Session**
10:25	**Coffee Break**
10:40	**Sponsor Highlight 1** **Ventura IoT Sdn Bhd** *Dewan Putra Perdana, Level 1*
10:50	**Sponsor Highlight 2** **Terberg Tractors Malaysia** *Dewan Putra Perdana, Level 1*
11:00	**Keynote Talk 2** **Mr. Ong Soon Ee, Intel** *Dewan Putra Perdana, Level 1*
12:00	**Session 1A** **Smart Sensor Technology and Application I** **Invited Speaker : Prof. Ir. Ts. Dr. Ahmad 'Athif Mohd Faudzi** **Universiti Teknologi Malaysia** *Dewan Putra Perdana, Level 1* **Session 1B (Online)** **Advanced Informatics in Computational Application I** **Invited Speaker : Assoc. Prof. Dr. Ahmad Shahrafidz Khalid** **Universiti Kuala Lumpur** *Virtual Session*

CONFERENCE PROGRAM

DAY 1
22 SEPTEMBER 2026

Time	Session	
13:00	**Lunch & Sponsor Expo** *Palm Hill Café, Level 1*	
14:15	**Invited Speaker** **Prof. Dr. Hangguan Shan** **Zhejiang University** *Dewan Putra Perdana, Level 1 (Main Hall)*	
14:45	**Invited Speaker (Industry)** **Ir. Dr. Ahmad Nizar Harun** **MIMOS Berhad** *Dewan Putra Perdana, Level 1 (Main Hall)*	
15:15	**Tea Break**	
15:30	**Session 2A** **Next Generation Communication Network** **Invited Speaker : Prof. Ir. Ts. Dr. Sharifah Hafizah Syed Ariffin** **Universiti Teknologi Malaysia** *Dewan Putra Perdana, Level 1 (Main Hall)*	**Session 2B (Online)** **Advanced Informatics in Computational Application II** *Dewan Putra Perdana, Level 1 (Breakout Room)*
17:30	**END OF DAY 1**	

CONFERENCE PROGRAM

DAY 2
23 SEPTEMBER 2026

Time	Session	
08:00	**Arrival & Registration** *Dewan Putra Perdana, Level 1*	
08:30	**Session 3A** **Advanced Informatics in Computational Application III** *Dewan Putra Perdana, Level 1*	**Session 3B (Online)** **Smart Technology and Sustainable Systems I** *Meeting Room 2, Level 1*
10:00	**Coffee Break**	
10:15	**Industry Forum** *Dewan Putra Perdana, Level 1*	
11:15	**Session 4A** **Smart Technology and Sustainable Systems II** **Invited Speaker : Assoc. Prof. Ts. Dr. Wahidah Binti Hashim** **Universiti Tenaga Nasional** *Dewan Putra Perdana, Level 1*	**Session 4B (Online)** **Medical, Healthcare and Bio-inspired Application** **Invited Speaker : Assoc. Prof. Ts. Dr. Azian Azamimi Abdullah** **Universiti Malaysia Perlis** *Meeting Room 2, Level 1*
12:55	**Lunch & Sponsor Expo** *Palm Hill Café, Level 1*	
14:00	**Conference Workshop** **MIMOS Berhad** *Dewan Putra Perdana, Level 1*	
15:00	**Session 5A** **Smart Sensor Technology and Application II** *Dewan Putra Perdana, Level 1*	**Session 5B (Online)** **Smart Sensor Technology and Application III** **Invited Speaker :** **Ir. Dr. Mohd Nabil Muhtazaruddin** **Universiti Teknologi Malaysia** *Meeting Room 2, Level 1*
16:30	**Best Paper Award and Closing Ceremony** *Dewan Putra Perdana, Level 1*	
17:00	**Tea Break**	
17:15	**END OF DAY 2**	

PRESENTATION SCHEDULE

DAY 1
22 SEPTEMBER 2026

Session 1A : Smart Sensor Technology and Application I
12:00 PM - 13:00 PM
Dewan Putra Perdana, Level 1 (Main hall)
Session Chair : Sharifah Hafizah Syed Ariffin

Time	Author(s)	Paper Title
12:00	**Invited Speaker Session** **Ahmad 'Athif Mohd Faudzi**	**Talk title:** Physical AI for Field Robotics: From Lab to Market
12:30	Sasa Arsovski and **Tharsshen Govikrishnan**	**1571297365** Cognitive Engagement as a Gating Mechanism for Semantic Recoverability in EEG-Derived Manifolds
12:45	**Muhammad Faiq Syauqi Bin Azhar,** Siti Maherah Hussin, Abdulraqeb Alhammadi, Norazliani Binti Md Sapari and Nur Ayeesha Qisteena Binti Muzir	**1571321258** Artificial Neural Network-Based Day-Ahead Solar Irradiance Forecasting for Unit Commitment Applications

END OF SESSION

*Click on the paper title of each presentation to view its corresponding abstract
*This session is available in hybrid mode. Please refer to the link provided in Online Access page

PRESENTATION SCHEDULE

DAY 1
22 SEPTEMBER 2026

Session 1B : Advanced Informatics in Computational Application I (Online)
12:00 PM - 13:00 PM
Virtual Session
Session Chair : Suriani Mohd Sam
Session Co-Chair : Siti Maherah
Online Link : https://meet.google.com/epd-odrk-ega

Time	Author(s)	Paper Title
12:00	**Invited Speaker Session** Aabid A. Mir, **Ahmad Shahrafidz Khalid**, Megat F. Zuhairi and Shahrulniza Musa	1571316752 A Blockchain Consent and Audit Framework for Privacy-Preserving Data Sharing in Ambient Assisted Living
12:30	**Khaled Harbah**, Saiful Adli Ismail and Noor Hafizah Hassan	1571317555 Implementing Cloud ERP in Higher Education: A Qualitative Case Study and the Proposed Cloud ERP Implementation Framework (CEIF)
12:45	**Khaled Harbah**, Saiful Adli Ismail and Noor Hafizah Hassan	1571315919 Challenges and Lessons Learned from Migrating a University Admission System to PaaS: A Case Study

END OF SESSION

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PRESENTATION SCHEDULE

DAY 1
22 SEPTEMBER 2026

Session 2A : Next Generation Communication Network
15:30 PM - 17:15 PM
Dewan Putra Perdana, Level 1 (Main hall)
Session Chair : Fiza Abdul Rahim

Time	Author(s)	Paper Title
15:30	**Invited Speaker Session** **Sharifah Hafizah Syed Ariffin**, Nurul Fariesya Suhaila Md Sazihan, Muhammad Ariff Baharudin, Nurul Mu'azzah Abdul Latiff, Sofia Hertiana, Ridha Muldina Negara and Kobby Asare Obeng	**1571323087** Intelligent Bandwidth Allocation for Multi-Tenant SD-IoT Edge Network: A Structured Weighted Exploration Deep Q-Network Approach
16:00	**Nurshahrily Idura Ramli**, Ahmad Adam Mohd Shahrom, Muhammad Amirul Asyraf Abdul Aziz, Noorhayati Mohamed Noor, Rosanita Adnan and Mohd Izani Bin Mohamed Rawi	**1571285706** A Simulation of Hierarchical Prioritization Control for Traffic Signal Pre-Emption at Intersection in Urban VANET Environment
16:15	**Muhammad Nazmi Husaini Norazman,** Norulhusna Ahmad, Mohd Azri Mohd Izhar and Khoirul Anwar	**1571306842** Recurrent Neural Network-Based Decoding for Analog Fountain Code
16:30	Mohd Zafri Baharuddin, Abdalazez Salih, **Mohamed Elmustafa Mohamed GarElnabi** and Ahmad Wafi Mahmood Zuhdi, Takeshi Morimoto, Yuji Takayanagi, Muhammad Haziq Mohammad Sabri, and Mohd Riduan Ahmad	**1571315146** Design and Performance Comparison of Serial and Wi-Fi Communication in an IoT-Based Atmospheric Electric Field Monitoring System
16:45	Intan Zainal Abidin, **Nurul Nafisa Mohd Noh**, Aziemah Mohd Nasir, Noor Shahira Sumardi, Weng Feng Sum, and Mohamad Nazir Abdullah	**1571323096** Design and Field Evaluation of a LoRa-Based Smart Collar for Cattle Behaviour Classification and GPS Tracking
17:00	**Azlan Azhar,** Hazilah Mad Kaidi and Norulhusna Ahmad	**1571313400** Disruptive IIoT in Malaysia's Industry 4.0: Regulatory Alignment, Thematic Priorities, and the Transition Toward Human-Centric Systems

END OF SESSION

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PRESENTATION SCHEDULE

DAY 1
22 SEPTEMBER 2026

Session 2B : Advanced Informatics in Computational Application II (Online)
15:30 PM - 17:15 PM
Dewan Putra Perdana, Level 1 (Breakout Room)
Session Chair : Haslaile Abdullah
Session Co-Chair : Nelidya Md Yusoff
Online Link : https://meet.google.com/epd-odrk-ega

Time	Author(s)	Paper Title
15:30	**Yolisa Luwaca,** Boniface Kabaso and Waldon Hendricks, W	**1571306094** Adaptive AI for Curriculum-Labour Market Alignment in Smart Informatics
15:45	**Rian Yahya,** Dujan Taha and Rawaa Putros Qasha	**1571315955** A Taxonomy and Assessment Framework for Securing CI/CD Pipelines
16:00	**Wenkai Ma** and Fariza Fauzi	**1571306293** Constitutional Sanitization and Fine-Tuning for Robustness to Prompt Injection in LLM-Based Log Analysis
16:15	**Jing-Ying Pang,** Khang-Siang Wong , Khin Hooi Ng, Ooi Eu Gene, Joel Yee Kiat Yeo and Yeap Gik Hong	**1571312236** Modeling Social Influence and User Preferences for Business Recommendation Using Graph Neural Networks
16:30	**Monwabisi Sabuka,** Boniface Kabaso and Waldon Hendricks, W	**1571313088** Post-Quantum and Hybrid TLS 1.3 Deployment Costs: A Systematic Review of Benchmark Evidence
16:45	Kim Hooi Loo, Norliza Mohamed, Suriani Mohd Sam, **Sun Qiyuan**, Norulhusna Ahmad and Hazilah Mad Kaidi	**1571313399** Blockchain-Based Replay Attack Mitigation for IoT Cold-Chain Logistics: A Review

END OF SESSION

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PRESENTATION SCHEDULE

DAY 2
23 SEPTEMBER 2026

Session 3A : Advanced Informatics in Computational Application III
08:30 AM - 10:00 AM
Dewan Putra Perdana, Level 1 (Main hall)
Session Chair : Fadhilah Abdul Razak

Time	Author(s)	Paper Title
08:30	Mohd Effendi Amran, **Siti Nur Atiqah Halimi**, Siti Armiza Mohd Aris, and Mohd Azizi Abdul Rahman	**1571306870** CT Scanner Failure Prediction Using Machine Learning with SMOTE-Based Imbalanced Learning
08:45	**Nur Syazarin Natasha Abd Aziz**, Farjana Hossain Tanwee, Amira Anisa Rahman Putra, Rudzidatul Dziyauddin, Mohd Azri Mohd Izhar, Naila Bouchemal and Sondes Kallel	**1571274522** Deep Learning-Based Road Sign Detection for Intelligent Transportation Systems in Malaysia
09:00	**Guo Zhaodong,** Mohd Azri Mohd Izhar and Noor Jannah Zakaria	**1571312964** A Unified Spatio-Temporal Bird's-Eye View Representation for Camera-Radar Alignment in Autonomous Driving
09:15	**Mas Omar Bin Mas Rosemal Hakim,** Sheikh Ahmad Hadri Bin Sheikh Hussain, Liyana Safra Binti Zaabar, Nur Athirah Farhana Binti Omar Zai and Siti Nabilah Binti Yusof	**1571306260** Evaluating MFCC Dimensionality and Machine Learning Classifiers for Speaker-Dependent Voice Authentication with Limited Training Data
09:30	**Kolosa Mbambanisi,** Boniface Kabaso and Waldon Hendricks, W	**1571306564** Retrieval-Augmented Generation for Higher Education Information Retrieval: A Systematic Literature Review
09:45	**Tebogo Mashabane,** Waldon Hendricks, W and Boniface Kabaso	**1571306728** A Proposed AHP-Based Decision Framework for Prioritising Phishing Mitigation Strategies Using Quantitative Human-Centric Indicators

END OF SESSION

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PRESENTATION SCHEDULE

DAY 2
23 SEPTEMBER 2026

Session 3B : Smart Technology and Sustainable Systems I (Online)
08:45 AM - 10:00 AM
Meeting Room 2, Level 1 (Breakout Room)
Session Chair : Hazilah Mad Kaidi
Session Co-Chair : Mohd Azri Mohd Izhar
Online Link : https://meet.google.com/epd-odrk-ega

Time	Author(s)	Paper Title
08:45	Shamsul Sarip, **Muhammad Faiz Mohamad Jaafar**, Icahri Chatta, Nurudin Abdul Settar, Latif Rohni, Noor Azme Omar, Ismail Tawnie, PGeol	1571320843 CFD Simulation Analysis of an in-Pipe Archimedes Screw Turbine for Low-Head Micro-Hydropower Applications
09:00	**Anees Ahmed Vighio**, Rozana Zakaria, Faridahanim Ahmad, Shaza Rina Sahamir, Eeydzah Aminudin, Ferry Firmawan, Neardey Monh, Kamaliah Mohd Saha and Lala Anggraini	1571321149 A Conceptual BIM-Integrated IoT Framework for Overall Thermal Transfer Value Monitoring as a Foundation for Digital Twin Development
09:15	**Sarifah Salwa Sapani,** Rozana Zakaria, Eeydzah Aminudin, Loganathan Ratana Singaram, Siti Maherah, Nur Ainina Mustafa, M Faizal Zukarnaini, Vikneswaran Munikanan and Jawa Gara	1571338589 Reinventing Malaysian Construction Digitalisation Strategic Roadmap of Sensor-Enabled
09:30	**Rina Azlin Razali,** Fiza Abdul Rahin, Adam Mohd Khairuddin, Nurzati Iwani Othman, Nurul Ainaa Muhamad Shaari and Rozita Yati Masri	1571316714 The Convergence of Explainable AI and Uncertainty Quantification in Special Education: A Scoping Review of AI-Assisted Support for Autism Spectrum Disorder
09:45	**Nickmar Balvez,** Julius Sese and Arnold Paglinawan	1571315187 Field-Validated Overload and Tilt Monitoring for a Wooden-Hull Outrigger Banca Using Ultrasonic and IMU Sensors

END OF SESSION

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PRESENTATION SCHEDULE

DAY 2
23 SEPTEMBER 2026

Session 4A : Smart Technology and Sustainable Systems II
11:15 AM - 12:45 PM
Dewan Putra Perdana, Level 1 (Main hall)
Session Chair : Norliza Mohamed

Time	Author(s)	Paper Title
11:15	**Invited Speaker Session** **Wahidah Hashim,** Rozita Ismail, Yi Feng Law, Ridha Omar, Faisal Mohd Amin and Zaleha Mohamad	**1571351466** Digitising a Historical Botanical Index: A Data Engineering Approach for Structured Biodiversity Data
11:45	Abubakar Aminu Bukar, Mohd Shahril Abdul Rahman, Zainab Toyin Jagun, Salfarina Samsudin, and **Oluwafemi Kehinde Akande**	**1571306413** IoT-Enabled Smart Property Infrastructure and FinTech-PropTech Integration for Sustainable Urban Real Estate Systems in Abuja, Nigeria
12:00	**Themba Ngobeni** and Boniface Kabaso	**1571306963** A DSRM-CkDT Framework for Quantum-Secure Signalling in 5G Roaming over IPX
12:15	Suriani Mohd Sam, **Farjana Hossain Tanwee**, Norliza Mohamed, Mohd Azri Mohd Izhar, Mohd Hizami Ab Halim, and Fadhilah Abdul Razak	**1571307125** IoT and Deep Learning-Based Smart Waste Monitoring and Fill-Level Prediction System
12:30	**Mike Tyolani**, Boniface Kabaso and Waldon Hendricks, W	**1571305691** eBPF-Driven Telemetry and Machine Learning for Proactive Microservice Failure Prediction: An Empirical Evaluation

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PRESENTATION SCHEDULE

DAY 2
23 SEPTEMBER 2026

Session 4B : Medical, Healthcare and Bio-inspired Application II (Online)
11:15 AM - 13:00 PM
Meeting Room 2, Level 1 (Breakout Room)
Session Chair : Siti Zura A. Jalil
Session Co-Chair : Nurul Aini Bani
Online Link : https://meet.google.com/epd-odrk-ega

Time	Author(s)	Paper Title
11:15	**Invited Speaker Session** **Azian Azamimi Abdullah**	**Talk Title:** AI-Based Automated Classification of Mosquito Eggs from Ovitrap Images for Dengue Vector Surveillance
11:45	**Nuur Ainina Nadzirah Binti Brahim** and Sahnius Usman	**1571303809** Silhouette-Based Gait Parameters Estimation for Human Gait Analysis
12:00	**Mohammed Ashfaq Hussain,** Siti Zura A.Jalil and Sahnius Usman	**1571321296** An LSTM-Based MTL Model for Emotion Recognition, Speaker Identification, and Age Estimation from Speech
12:15	**Islam Md Tahidul,** Kok Swee Sim and Nor Hidayati Abdul Aziz	**1571331068** MedSecureMark++: Deep Learning-Based Fragile Watermarking Framework for Medical Image Authentication, Tamper Localization and Recovery
12:30	Mahda Laina Arnumukti, Kok Swee Sim, **Iksan Bukhori**, Kok Beng Gan, Dimas Adiputra, and Nor Hidayati Abdul Aziz	**1571331173** Comparative Analysis of Nutritional Profiling Using Gaussian Mixture Models and Fuzzy C-Means Clustering
12:45	**Haslaile Abdullah** and Siti Zura A.Jalil	**1571313128** Neurocardiac Index-Based Machine Learning Classification for Sleep Apnea Detection Using EEG and ECG Signals

END OF SESSION

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PRESENTATION SCHEDULE

DAY 2
23 SEPTEMBER 2026

Session 5A : Smart Sensor Technology and Application II
15:00 PM - 16:15 PM
Dewan Putra Perdana, Level 1 (Main hall)
Session Chair : Norulhusna Ahmad

Time	Author(s)	Paper Title
15:00	**Nazirah Mohd Razali**	**1571278939** Concrete Hydration Monitoring for a Cast-in-Situ Pile Using BOFDA-Based Distributed Fiber Optic Sensing
15:15	**Md. Anayet Ullah Patwari,** Fariha Khan, Imran Imtiaz and Mahmudul Firoz	**1571305753** Experimental Analysis of Smart Sensor Fusion on Tool Wear Monitoring
15:30	**Thiresamary Kurian,** Soon Poh Lee, Pei Song Chee, Eng Hock Lim, Jen Hahn Low and Chun Hui Tan	**1571306259** Paper-Based Anthocyanin-Incorporated Colorimetric Sensor for Uric Acid Detection
15:45	**Tshivhidzo Makungo** and Boniface Kabaso	**1571306970** A Unified Methodology for Cross-Provider Performance and Cost Evaluation of Cloud Storage Paradigms for Sensor-Data Workloads
16:00	**Ongeziwe Qwayede,** Boniface Kabaso and Waldon Hendricks, W	**1571306201** Cybersecurity Vulnerabilities and Security Approaches in Weather Station Networks: A Systematic Literature Review
16:15	**Muhammad Sani Yahya,** Nisha Adlin Binti Rashdan and Socheatra Soeung	**1571330756** Payload Optimization at the Application Layer for Energy-Efficient LoRa-Based Vital Sign Monitoring

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PRESENTATION SCHEDULE

DAY 2
23 SEPTEMBER 2026

Session 5B : Smart Sensor Technology and Application III (Online)
15:00 PM - 16:15 PM
Meeting Room 2, Level 1 (Breakout Room)
Session Chair : Rudzidatul Akmam Dziyauddin
Session Co-Chair : Sahnius Usman
Online Link : https://meet.google.com/epd-odrk-ega

Time	Author(s)	Paper Title
15:00	**Invited Speaker Session** Aqeel Mezher Thajeel Alsultan, **Mohd Nabil Muhtazaruddin,** Nurul Aini Bani, Firdaus Muhammad-Sukki, Shamsul Sarip and Saardin Abdul Aziz	**1571320373** Optimal Sizing and Rule-Based Energy Management of Residential Hybrid Renewable Energy Systems via a Hybrid ISSA-ALO Optimization Algorithm
15:30	**Iksan Bukhori,** Kok Swee Sim, Kok Beng Gan, Mahda Laina Arnumukti and Dimas Adiputra	**1571331092** A Statistical Feature-Based Framework for Single-Image Gaussian Noise Estimation
15:45	Kok Swee Sim, **Islam Md Tahidul,** Md. Mijanur Rahman, Iksan Bukhori and Dimas Adiputra	**1571331081** A Meta-Learning Based Ensemble Model for Robust Low-Light Image Enhancement
16:00	**Ahmad Tirmizi Ahmad Zaemuri,** Mohd Hisyam Mohd Ariff, Haszuraidah Ishak, Marlina Yakno, Nadhiya Liyana Mohd Kamal and Rahimah Jusoh	**1571306653** Design and Analysis of a Multislot Antenna for Sub-6 GHz 5G Applications
16:15	**Solly Sibuyi,** Waldon Hendricks, W and Boniface Kabaso	**1571306494** Securing Biometric Authentication Against Deepfake and Replay Attacks: A Systematic Review

END OF SESSION

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