

IEEE International Conference on Computing

CONFERENCE PROGRAMME

IEEE International Conference on Computing 2026

12 – 14 October 2026
The Westin Langkawi Resort & Spa
Langkawi, Malaysia

IEEE COMPUTER SOCIETY

IEEE
Advancing Technology for Humanity

JOIN ONLINE

Zoom links

Every parallel session streams on Zoom. The track letter is the session letter: Parallel 2B is Track B. Keynotes, the Opening and Closing Ceremony and the Dinner use Track A.

Track A
Meeting ID 819 7713 3083

Track B
Meeting ID 863 4884 6323

Track C
Meeting ID 891 3006 2986

Track D
Meeting ID 829 5566 6807

LIVE PROGRAMME

The online programme is updated whenever EDAS changes and has a search box: type your name to find your session.

ieeecomputer.my/icoco2026/programme.html

HOUSE RULES FOR PRESENTERS

- Each paper has a 15-minute slot including questions. Arrive 10 minutes before your session and load your slides on the room PC.
- Use the official slide template (Programme → Templates on the website).
- Online presenters: join the track's Zoom link 15 minutes early, camera on, screen share ready.

DISCLAIMER

This programme is correct as of **12 October 2026, 3:15 pm MYT**. Session times, chairs, rooms and paper order may change after printing. The online programme is always the latest version; please check it on the day. The organisers are not responsible for changes made after this date.

WELCOME

Message from the General Chair



On behalf of the organising committee, it is my pleasure to welcome you to the IEEE International Conference on Computing 2026 (ICOCO 2026) in Langkawi. This is the sixth edition of ICOCO, building on five successful conferences held each year from 2021 to 2025. Organised by the IEEE Computer Society Malaysia Chapter, ICOCO brings together researchers, practitioners and students across the full breadth of computing, from networking and information security to big data analytics, e-learning, graphic and interactive media and open systems.

This year's programme features 167 peer-reviewed papers in 31 parallel sessions, two keynote addresses and a postgraduate symposium. Every session is also streamed on Zoom so that colleagues who cannot travel can still take part.

I thank our keynote speakers, the technical programme committee and reviewers, the session chairs and our partners for making this conference possible. I hope you find the programme stimulating and the island hospitable.

Prof. Dr. Shukor Abd Razak
General Chair, ICOCO 2026

ORGANISATION

Organising Committee

ICOCO 2026 is organised by the IEEE Computer Society Malaysia Chapter.

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KEYNOTE · DAY 1 · MONDAY 12 OCTOBER · 11:00

From Digital Utility to Intelligent Enterprise

Navigating the Convergence of Energy, Data & AI



Tuan Haji Azlan Ahmad

Chief Digital & Information Officer
Tenaga Nasional Berhad

ABSTRACT

The convergence of energy, data and artificial intelligence is reshaping how utilities manage complexity, respond to changing customer expectations and support the energy transition. As energy systems become more interconnected, the ability to anticipate disruptions and translate operational data into timely decisions becomes increasingly important to reliable electricity supply.

TNB's journey from a digital utility towards an intelligent enterprise illustrates how sustained investment in integrated systems, connected assets and trusted data creates the foundations for AI adoption. Applications in predictive maintenance, network mapping and plant optimisation demonstrate opportunities to improve operations, while value management connects technology investment to measurable business outcomes. Extending these capabilities beyond individual pilots requires reusable platforms, workforce readiness and responsible governance, with cybersecurity and human accountability embedded throughout deployment and operation.

Emerging capabilities such as agentic AI and more autonomous operations offer further opportunities to strengthen decision-making, supported by appropriate safeguards and human oversight. The ultimate ambition is an intelligent enterprise that continuously learns and adapts while delivering reliable energy services and sustainable value for society.

ABOUT THE SPEAKER

Tuan Haji Azlan Ahmad is the Chief Digital & Information Officer of Tenaga Nasional Berhad (TNB), where he spearheads the organisation's technology and digital innovation agenda in advancing Malaysia's energy future. With 32 years of distinguished service at TNB, he has played a pivotal role in driving innovation, modernising operations, and leveraging artificial intelligence and emerging technologies to create sustainable value. Recognised for his visionary leadership, he continues to champion a resilient, future-ready utility ecosystem that supports Malaysia's Energy Transition aspirations.

KEYNOTE · DAY 2 · TUESDAY 13 OCTOBER · 11:00

Beyond More: Designing Computing for a Sustainable Future



Prof. Dr. Jari Porras

LUT University, Finland

ABSTRACT

The conventional trajectory of computing has largely been defined by *more*: more processing power, more data, more connectivity, more automation, and more digital services. AI accelerates this trajectory even further. At the same time, computing depends on energy, materials, infrastructure, data centers, and global supply chains, while digital technologies increasingly influence social structures, work, privacy, and human behavior. The future challenge, then, is not simply to make computing more efficient. We need to ask whether we are designing the right digital systems in the first place.

This keynote explores a shift from technology-centered computing to purpose-driven and sustainability-oriented computing. It argues that sustainability must become a design consideration across the entire computing lifecycle, from designing algorithms, software, and hardware to data infrastructures, user experiences, organizational practices, and societal deployment.

ABOUT THE SPEAKER

Prof. Dr. Jari Porras is a software engineering professor at LUT University whose research has evolved from distributed and mobile computing, communications and networking, and pervasive computing to a strong focus over the past decade on sustainable ICT and sustainable software engineering. His work connects technical innovation with environmental, economic and social sustainability, asking how computing should be designed to create sustainable value for people, organisations and society.

DAY 1 AT A GLANCE

Monday, October 12

TIME	PARALLEL A	PARALLEL B	PARALLEL C	PARALLEL D
8:30–9:00 am	Registration			
9:00–10:30 am	1A Networking and Information Security	1B Networking and Information Security & Big Data Analytics	1C Big Data Analytics & Wireless, Ad Hoc and Sensor Networks	1D Big Data Analytics, Wireless, Ad Hoc and Sensor Networks & Networking and Information Security
10:30–10:45 am	Morning break			
10:45–11:00 am	OPENING CEREMONY			
11:00 am–12:00 pm	Keynote: Mr Azlan Ahmad			
12:00–2:00 pm	Lunch			
2:00–3:15 pm	2A Open Systems & Graphic and Interactive Media	2B Networking and Information Security	2C Big Data Analytics	2D Big Data Analytics & e-Learning, e-Management and e-Services Tracks
3:15–3:45 pm	Afternoon break			
3:45–5:00 pm	3A e-Learning, e-Management and e-Services Tracks	3B Big Data Analytics	3C e-Learning, e-Management and e-Services Tracks	3D Big Data Analytics

Correct as of 12 October 2026, 3:15 pm MYT. All times Malaysia Time (UTC+8). Full session details follow. Zoom: Track A–D as per session letter; keynotes and ceremonies on Track A.

DAY 2 AT A GLANCE

Tuesday, October 13

TIME	PARALLEL A	PARALLEL B	PARALLEL C	PARALLEL D
8:30–9:00 am	Registration			
9:00–10:30 am	1A Open Systems, Wireless, Ad Hoc and Sensor Networks & Postgraduate Symposium	1B e-Learning, e-Management and e-Services Tracks	1C Networking and Information Security & Big Data Analytics	1D Big Data Analytics & Graphic and Interactive Media
10:30–11:00 am	Morning break			
11:00 am–12:00 pm	**Keynote: Prof. Dr. Jari Porras**			
12:00–2:00 pm	Lunch			
2:00–3:15 pm	2A Big Data Analytics, Wireless, Ad Hoc and Sensor Networks, Graphic and Interactive Media, Postgraduate Symposium	2B e-Learning, e-Management and e-Services Tracks & Open Systems	2C Graphic and Interactive Media & Wireless, Ad Hoc and Sensor Networks	2D Open Systems
3:15–3:45 pm	Afternoon break			
3:45–5:00 pm	3A e-Learning, e-Management and e-Services Tracks	3B Graphic and Interactive Media	3C e-Learning, e-Management and e-Services Tracks	3D Wireless, Ad Hoc and Sensor Networks & Graphic and Interactive Media
6:00–9:00 pm	**DINNER**			

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DAY 3 AT A GLANCE

Wednesday, October 14

TIME	PARALLEL A	PARALLEL B	PARALLEL C	PARALLEL D
8:30–9:00 am	Registration			
9:00–10:30 am	1A Graphic and Interactive Media,Wireless, Ad Hoc and Sensor Networks & Postgraduate Symposium	1B Big Data Analytics, Postgraduate Symposium & Graphic and Interactive Media	1C Graphic and Interactive Media & Networking and Information Security	1D Open Systems
10:30–11:00 am	Morning break			
11:00 am–12:15 pm	2A e-Learning, e-Management and e-Services Tracks & Big Data Analytics	2B Networking and Information Security	2C Open Systems & Networking and Information Security	
12:15–1:00 pm	CLOSING CEREMONY			
2:00–3:15 pm	Networking Session			
3:15–3:45 pm	Afternoon break			
3:45–5:00 pm	Networking Session			

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DAY 1

Monday, October 12

1A 9:00–10:30 am Room Westin 1 ZOOM A

Networking and Information Security

Chair: Mohamad Hazim Md Hanif (Universiti Malaya, Malaysia)

1. **Beyond the Request: Detecting Malicious Account Recovery via Server-Side Activity Logs**
   Ali Mujuthaba and Mohamad Hazim Md Hanif (Universiti Malaya, Malaysia)
2. **Quantum Generative Adversarial Networks (Q-GAN) for Network Traffic Classification**
   Yujie Hou and Muhammad Nur Firdaus Sahran (Universiti Malaya, Malaysia)
3. **Beyond English-Centered Password Evaluation: Cross-Distribution Transfer in Segment-Based Probabilistic Grammar Guessing**
   Nathaniel Kofi Adjadeh and Stephanie Nix (Iwate Prefectural University, Japan); Masaki Narita (Iwate Prefectural University, Graduate School of Software and Information Science, Japan)
4. **A Lightweight Mutual Information-Based Feature Optimization Framework for Intrusion Detection in Edge-IoT Networks**
   Song ChengEn (National University of Malaysia (UKM), Malaysia)
5. **Characterizing Scanner Variability in SBOM-Based Vulnerability Triage for Software Supply Chain Security**
   Kanako Nemoto, Karen Kawai, Satoshi Okada, Koki Watarai and Takuho Mitsunaga (Toyo University, Japan)
6. **SILENCE: Inference-Aware Information-Flow Control for Privacy-Preserving Agentic Social Networks**
   Deyu Zhang (Guizhou University, China)

1B 9:00–10:30 am Room Westin 2 ZOOM B

Networking and Information Security & Big Data Analytics

Chair: Farhan Mohamed (Universiti Teknologi Malaysia, Malaysia)

1. **Artificial Intelligence Adoption for Disaster Risk Reduction in Malaysia: Institutional Readiness, Barriers, and Strategic Pathways**
   Mohd Shahar Abdullah, Ali Selamat and Nguyet Quang Do (Universiti Teknologi Malaysia, Malaysia); Mohd Azlan Abu (Malaysia-Japan International Institute of Technology, Universiti Teknologi Malaysia, Malaysia); Kok Cheng Lim (Universiti Tenaga Nasional, Malaysia); Ondrej Krejcar (Skoda Auto University, Czech Republic & University of Hradec Kralove, Czech Republic); Petra Maresova (University of Hradec Kralove, Faculty of Informatics and Management, Czech Republic)
2. **Flow2Token: A Structured Feature-Value Tokenization Framework for Cross-Environment Transfer in IoT Traffic Classification**
   Firdaus Afifi (Universiti Malaysia Terengganu, Malaysia); Nor Badrul Anuar (Universiti Malaya, Malaysia)

1B 9:00–10:30 am · continued Room Westin 2 ZOOM B

Networking and Information Security & Big Data Analytics

3. **Phishing Website Detection Using Machine Learning: A Comparative Evaluation of SVM, Random Forest, and XGBoost**
   Chee Jia Bao and Fatin Natasya Binti Shuhaimi (Universiti Tunku Abdul Rahman, Malaysia)
4. **Smart-Meter Data Integrity Threats and Experimental Evaluation of Energy Consumption Spoofing in an IoT Testbed**
   Nik Suki (Universiti Tenaga Nasional, Malaysia); Mohd Saufy Rohmad (Universiti Teknologi MARA Malaysia, Malaysia); Surizal Nazeri and Wan Nur Eliana Wan Mohd Ludin (Universiti Tenaga Nasional, Malaysia)
5. **From Vulnerability Advisory to Patch Application: Governing Agentic AI for Patch Management**
   Satoshi Okada, Karen Kawai, Kanako Nemoto and Sae Kobayashi (Toyo University, Japan); Chiho Orita (Freelance, Japan); Koki Watarai and Takuho Mitsunaga (Toyo University, Japan)
6. **AI-Based Detection of Collusive Interest Flooding Attacks in NDN-IoT**
   Sura Haidar Ali (University of Babylon Babylon, Iraq); Alaa Shawqi Jaber (University of Babylon, Iraq)

1C 9:00–10:30 am ZOOM C

Big Data Analytics & Wireless, Ad Hoc and Sensor Networks

Chair: Ibrahim Mohd Jamadi (Universiti Teknologi Malaysia, Malaysia)

1. **SEBENARNYA-Fact: A Malay Fact-Checking Dataset for Evidence Retrieval**
   Ibrahim Mohd Jamadi and Syahid Anuar (Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia)
2. **A Comparative Analysis of Outlier Detection Methods and Their Impact on ARIMA Forecast Accuracy for Stock Returns**
   Nur Syahindah Shahrul, Noor Fadhilah Ahmad Radi, Mahayaudin M Mansor and Pauline Jin Wee Mah (Universiti Teknologi MARA, Malaysia); Nur Azura Md. Ghani (Universiti Teknologi MARA Shah Alam, Malaysia)
3. **Multi-Seller Fulfillment and Customer Dissatisfaction in Marketplace E-Commerce**
   Maria Lidwina Jusuf, Azwa Mutiah and Diah Aulia (Binus University, Indonesia); Richard Wiputra (Bina Nusantara University, Indonesia)
4. **Mobile Application for Early Detection of Heart Conditions in Adults Based on Federated Learning and IoT**
   Renato Sebastian Gamarra Castillo, Pedro Alonso Albújar Palomino and Jymmy Dextre (Universidad Peruana de Ciencias Aplicadas, Peru)
5. **Predicting Bali Hotel Occupancy Demand Using Linear Regression, Random Forest, Prophet and LSTM Regression-Based Models**
   Darrell Delrando Tjokro and Yaya Heryadi (Bina Nusantara University, Indonesia)
6. **Exploring the Role of Extended Reality Technology in Learning Outcomes: A Qualitative Comparative Case Study of Two Australian Universities**
   Aidrina Sofiadin (International Islamic University Malaysia, Malaysia & IIUM, Malaysia)

1D 9:00–10:30 am ZOOM D

Big Data Analytics, Wireless, Ad Hoc and Sensor Networks & Networking and Information Security

Chair: Muhammad Nur Firdaus Sahran (Universiti Malaya, Malaysia)

1. **Predictive Modelling for Optimal EV Charging Station Sites in Malaysia Using Geospatial and Area Profiling Data**
   Md Azrul Syaffiq Bin Md Suhaimi and Nor Badrul Anuar (Universiti Malaya, Malaysia)
2. **Stock Price Forecasting of AI-Related Companies in Bursa Malaysia's Software Sub-Sector: A Comparison of ARIMA and LSTM Models**
   Muhammad Azim Mohd Sharul Nizar, Mahayaudin M Mansor and Noor Fadhilah Ahmad Radi (Universiti Teknologi MARA, Malaysia); Norsyela Muhammad Noor Mathivanan (University of Wollongong Malaysia, Malaysia); Nurain Ibrahim (Universiti Teknologi MARA, Malaysia)
3. **Does Adaptive PM2.5 Correction Transfer Across Devices, Sites, and Time? A Prospectively Frozen Three-Role PurpleAir Evaluation**
   Safwaan Majid (Rock Ridge High School, USA); Aarnav Trivedi (Academies of Loudoun, USA); Saketh Nandam and Arnav Mahajan (Rock Ridge High School, USA); Srujan Chilakapati (Light Ridge High School, USA); Pratyay Jakkula (Thomas Jefferson High School for Science and Technology, USA)
4. **Embedded IoT-Based Real-Time Room-Level Energy Monitoring, Load Control and Automated Billing System**
   Apple Rose B. Alce (Mindanao State University-Iligan Institute of Technology, Philippines); Mohana Shanmugam (Universiti Tenaga Nasional & Universiti Putra Malaysia, Malaysia); Prinnie Boy D. Torregoza, Darlene Krissa G. Zapatos and Jevon Karl A. Tuba (Mindanao State University, Philippines); Paul Rodolf P. Castor (Mindanao State University - Iligan Institute of Technology, Philippines); Halimah Badioze Zaman (Universiti Tenaga Nasional, Malaysia)
5. **A Comparative Analysis of Machine Learning Approaches for Multilabel Fault Detection in Vehicles Using Onboard Diagnostics Data**
   Arash Seifi (Universiti Malaya, Malaysia); Rafidah Md Noor (University of Malaya, Malaysia)
6. **Secure Academic Credential Verification via SHA-256 Hashing and Avalanche Blockchain Subnet-EVM**
   Fitrah Septiandwi Sensi, Hidra Amnur, Rahmat Hidayat, Alde Alanda and Aldo Erianda (Politeknik Negeri Padang, Indonesia)

10:45–11:00 AM **OPENING CEREMONY** ZOOM A

11:00 am–12:00 pm	**Keynote**	· Mr Azlan Ahmad	· Moderator: Dr. Mohd Hazli Mohamed Zabil	ZOOM A

2A 2:00–3:15 pm Room Westin 1 ZOOM A

Open Systems & Graphic and Interactive Media

Chair: Norshuhada Samudin (MIMOS Bhd, Malaysia)

1. **Evaluating the Reliability of OCR-Generated Qur'anic Text Using Structural and Reference-Based Verification**
   Nor Izyani Daud (MIMOS Berhad, Malaysia); Dahlia Din (Mimos Berhad, Malaysia); Galoh Rashidah Haron (MIMOS Berhad, Malaysia); Norshuhada Samudin (MIMOS Bhd, Malaysia); Mawardi bin Rosli, Azhad Zuraimi and Najwa Fazlini (MIMOS Berhad, Malaysia)
2. **Intent-Aware Prompt Routing for Risk-Aware Synthetic Media Generation**
   Rabeatuladawiyah Samser, Phooi Yee Lau, Faizal Fauzi and Engku Nurul Humairah Auni (MIMOS Berhad, Malaysia); Zulaikha Kadim (MIMOS Bhd, Malaysia)
3. **C2PA Provenance Analysis for Metadata-Based Attribution of AI-Generated Images**
   Hasmarina Hasan, Siti Sofiah Mohd Radzi and Mohamad Shukri Maslan (MIMOS Berhad, Malaysia); Mohd Pazli Sulong (Mimos, Malaysia)
4. **Early Detection of Melanoma Using Deep Learning Models**
   Mohammed Abdulla Salim Al Husaini, Al Yaqeen Salim Mohammed Al Wardi and Yousuf Nasser Al Husaini (Arab Open University Oman, Oman); Neena Uthaman (Arab Open University, Oman); Mohamed Hadi Habaebi (International Islamic University Malaysia (IIUM), Malaysia); Mohammad Abrar (Arab Open University - Oman)
5. **A near Real-Time AI-Driven Monitoring System for Attire Compliance**
   Yiqi Tew, Jin Xuan Wong and Qing Ying Low (Tunku Abdul Rahman University of Management and Technology, Malaysia)

2B 2:00–3:15 pm Room Westin 2 ZOOM B

Networking and Information Security

Chair: Mohd Ezanee Rusli (Universiti Tenaga Nasional, Malaysia)

1. **Security-Enhanced Adaptive Federated Learning for Robust and Privacy-Aware Data Collaboration**
   Mohd Ezanee Rusli and Youssouf Mahamat Hassan (Universiti Tenaga Nasional, Malaysia)
2. **QHAT: A Hard-Attention Framework for Quantum Continual Network Traffic Classification Under Non-IID Data**
   Swaraj Jagade, Muhammad Nur Firdaus Sahran and Nor Badrul Anuar (Universiti Malaya, Malaysia)
3. **STREM: A Socio-Technical Risk Evolution Model for Operational Insider Risk Prevention**
   Palash Dusane (Symbiosis Institute of Technology, Symbiosis International (Deemed University), Pune, India); N Mohan Kumar (Symbiosis Institute of Technology, Nagpur Campus, Symbiosis International (Deemed University), Pune, India)
4. **Integrating Privacy Risk, Disclosure Benefits, and Privacy Awareness to Strengthen Data Privacy Protection Behavior**
   Fernando Aimar (Binus University, Indonesia)

2B 2:00–3:15 pm · continued Room Westin 2 ZOOM B

Networking and Information Security

5. **Beyond Clean Accuracy: A Reproducible Multi-Axis Evaluation of Intrusion Detection Models for Cloud-Security Monitoring**
   Esraq Humayun (Khwaja Yunus Ali University, Bangladesh); Kok Cheng Lim and Mohd Hazli Mohamed Zabil (Universiti Tenaga Nasional, Malaysia); Ali Selamat, Nguyet Quang Do and Mohd Shahar Abdullah (Universiti Teknologi Malaysia, Malaysia); Ondrej Krejcar (Skoda Auto University, Czech Republic & University of Hradec Kralove, Czech Republic); Petra Maresova (University of Hradec Kralove, Faculty of Informatics and Management, Czech Republic)

2C 2:00–3:15 pm ZOOM C

Big Data Analytics

Chair: Mahayaudin M Mansor (Universiti Teknologi MARA, Malaysia)

1. **Evaluation of Univariate TSLM, ARIMA and LSTM Models for Predicting Malaysia CO2 Emissions**
   Mahayaudin M Mansor, Anis Zakiah Zulkifli, Norshahida Shaadan and Siti Shaliza Mohd Khairi (Universiti Teknologi MARA, Malaysia); Rokhana Dwi Bekti (Universitas Gadjah Mada, Indonesia); Gunardi (Gadjah Mada University, Indonesia)
2. **Adaptive Temporal-Physiological Fusion for Dance Therapy Outcome Prediction**
   Deyu Zhang (Guizhou University, China); Lilin Zhang (Kunming Preschool Education College, China)
3. **Pricing the Unseen: A Temporal Evaluation of a Fine-Tuned Language Model and a Gradient-Boosted Tree for Cold-Start Property Valuation**
   Muath Alrammal (University of Wollongong - Dubai Campus, United Arab Emirates); Nourchène Elleuch Ben Ayed (HCT, United Arab Emirates); Keletso J. Letsholo (Higher Colleges of Technology, United Arab Emirates); Milan Dordevic (University of Wollongong in Dubai, United Arab Emirates); Rohan Vijendran Rao (University of Wollongong in Dubai, Australia)
4. **Open-Set Qur'anic Reciter Recognition Using Hybrid Acoustic Features: A Comparative Evaluation of Random Forest and Bidirectional LSTM Models**
   Abdulazeez Abdusamii and Habeeb Omounde (Al-Imam Mohamed Ibn Saud Islamic University, Saudi Arabia)
5. **Calibration-Aware Risk Stratification for AI-Driven Predictive Maintenance of Biomedical Equipment**
   Jihanne Moufid (Hassan II University of Casablanca, Morocco); Rim Koulali (Faculté des Sciences Ain Chok, Morocco); Khalid Moussaid and Noreddine Abghour (LIMDAS Labs, Faculty of Sciences Ain Chock, Hassan II University of Casablanca, Morocco)

2D 2:00–3:15 pm ZOOM D

Big Data Analytics & e-Learning, e-Management and e-Services Tracks

Chair: Nur Izzati Ab Kader (Universiti Tenaga Nasional, Malaysia)

1. **An Optimised Bi-Directional Long Short-Term Memory Using Water Wave Optimisation for Multivariate Time Series Forecasting**
   Nur Izzati Ab Kader (Universiti Tenaga Nasional, Malaysia); Noor Akma Abu Bakar, Ts (Universiti Tenaga Nasional, Malaysia & UNITEN, Malaysia)
2. **DQN-Based Feature Grouping for Compact and Competitive Classification**
   Baraah Ali Omar Balagem (Universiti Malaysia Perlis, Malaysia); Zahereel Ishwar Abdul Khalib (University of Malaysia Perlis, Malaysia); Amiza Amir (Universiti Malaysia Perlis & Advanced Computing (ADVCOMP) Centre of Excellence, UniMAP, Malaysia); Rozmie Razif Othman (Universiti Malaysia Perlis, Malaysia); Nik Adilah Hanin Zahri (Universiti Malaysia Perlis, Malaysia & Center of Excellence for Advanced Computing Universiti Malaysia Perlis, Malaysia); Zainor Ridzuan Yahya (Pauh Putra Campus, Universiti Malaysia Perlis, Arau, Malaysia); Mohamed Elshaikh (UniMAP, Malaysia); Zouhair Elamrani Abou Elassad (Cadi Ayyad University, Morocco)
3. **Maritime Safety Intelligence Through NLP-Based Incident Knowledge Extraction and Interactive Visual Analytics: Port Klang Case Study**
   Jeevanraaj Thayanithi, Septavera Sharvia, Pritheega Magalingam and Saiful Adli Ismail (Universiti Teknologi Malaysia, Malaysia)
4. **Selective Cluster Reconciliation for Hierarchical Time Series Forecasting**
   Trisna Ari Ari Roshinta (Universitas Sebelas Maret, Indonesia & Budapest University of Technology and Economics, Hungary); Gábor Szűcs (Budapest University of Technology and Economics, Hungary)
5. **AI-Enabled Mobile Support for Autism Caregivers: A Scoping Review of ML-Based Prediction, and LLM-Based Conversational Assistance**
   Noor Akma Abu Bakar, Ts (Universiti Tenaga Nasional, Malaysia & UNITEN, Malaysia); Nur Izzati Ab Kader, Surizal Nazeri and Khairi Azhar Aziz (Universiti Tenaga Nasional, Malaysia)

3A 3:45–5:00 pm Room Westin 1 ZOOM A

e-Learning, e-Management and e-Services Tracks

Chair: Siti Hafizah Ab Hamid (Universiti Malaya, Malaysia)

1. **Short Cybersecurity Forums Lift Emotional Readiness but Stall on Behavioural Intentions: A Theory-Localized Pre-Post Study of Malaysian Adolescents**
   Siti Hafizah Ab Hamid and Nor Badrul Anuar (Universiti Malaya, Malaysia)
2. **Smart Application for Predicting Student Loan Repayment Timelines**
   Nada AlSallami and Maria Delia (Worcester State University, USA)
3. **LawanScam: A Mobile Gamified Scam Readiness and Risk Communication Platform for Malaysian Users**
   Azyanee Luqman and Faizal Haini Fadzil (Universiti Teknologi MARA Cawangan Kelantan, Malaysia); Mohamad Rahimi Mohamad Rosman (Universiti Teknologi MARA, Malaysia); Nurulannisa Abdullah and Cheam Chai Li (Universiti Teknologi MARA Cawangan Kelantan, Malaysia); Mohd Afifie Mohd Alwi (Universiti Malaysia Kelantan, Pengkalan Chepa, Malaysia); Siti Sarah Mohamad and Mohd Zafian Mohd Zawawi (Universiti Teknologi MARA Cawangan Kelantan, Malaysia)

3A 3:45–5:00 pm · continued **Room Westin 1** ZOOM A

e-Learning, e-Management and e-Services Tracks

4. **Leveraging Text Mining for Analyzing Engineering Students' Feedback: Insights from Civil Engineering Licensure Preparation Programs**
   Jozel Bryan Mestiola Terrible and Jan Denniel B Escano (National University, Philippines & NU Dasmariñas, Philippines); John Leander R Landicho (National University Dasmariñas, Philippines); Daniele Clarise P Noga (National University-Dasmarinas, Philippines); Joan Katherine N Romasanta (National University, Philippines & NU Dasmarinas, Philippines)
5. **RecuerdaMed: A Mobile Application for Medication Identification and Management Among Older Adults in Urban Settings**
   Eduardo Yallico (Universidad Peruana de Ciencias Aplicadas, Peru); Pedro Castañeda (Universidad Peruana de Ciencias Aplicadas (UPC), Peru); Alejandrina Huarcaya (Universidad Peruana de Ciencias Aplicadas, Peru)

3B 3:45–5:00 pm ZOOM B

Big Data Analytics

Chair: Mohana Shanmugam (Universiti Tenaga Nasional & Universiti Putra Malaysia, Malaysia)

1. **Modeling the Effects of Big Data Analytics and Customer Centricity Towards Sustainable Products Development**
   Mohana Shanmugam (Universiti Tenaga Nasional & Universiti Putra Malaysia, Malaysia); Nur Fatin Sulaiman (Universiti Tenaga Nasional, Malaysia); Pritheega Magalingam (Universiti Teknologi Malaysia, Malaysia); Suthashini Subramaniam (Universiti Tunku Abdul Rahman, Malaysia); Neesha Jothi (Universiti Tenaga Nasional, Malaysia); Niayesh Gharaei (Ostim Teknik Universitesi, Turkey)
2. **Adaptive Hypersphere Binning for Datasets Entropy and Distance Estimation**
   Pejman Khadivi (Seattle University, USA)
3. **Comparing Ensemble Strategies for Multi-Department Length of Stay Classification in Geriatric Patients Using MIMIC-IV**
   Arpitha Thippeswamy (Thompson Rivers University, Canada); Shannon Freeman (University of Northern British Columbia, Canada); Piper J Jackson (Thompson Rivers University, Canada)
4. **Deep Learning-Based BI-RADS Breast Cancer Classification: A Comparative Study Using Stratified K-Fold Cross Validation**
   Nur Farah Alina binti Adzmi, Noorazliza Sulaiman and Abdul Nasir (Universiti Malaysia Pahang Al-Sultan Abdullah, Malaysia); Mohd Zamri Ibrahim (Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA), Malaysia); Nurul Hanim Salin (National Institutes of Biotechnology Malaysia, Malaysia)
5. **Physics-Informed Residual Learning for Cross-Domain Engine Fault Detection Using Long Short-Term-Memory**
   Arash Seifi (Universiti Malaya, Malaysia); Rafidah Md Noor (University of Malaya, Malaysia)

3C 3:45–5:00 pm ZOOM C

e-Learning, e-Management and e-Services Tracks

Chair: Muhammad Faiz Mohd Zaki (Universiti Malaya, Malaysia)

1. **Evaluating the Effectiveness of Extended Reality in Enhancing Otology Education**
   Manjit Singh Sidhu (Universiti Tenaga Nasional & College of IT, Malaysia); Kirandeep Kaur Sidhu (Universiti Tunku Abdul Rahman, Malaysia); Avin Mahajan (Universiti Tenaga Nasional, Malaysia)
2. **TAM-TPB Integration in Evaluating User Intentions Toward Airport Biometric Systems in Indonesia**
   Carlos Daniello, Alexander Andrew Rahardja, Kelvin Malaka and Anderes Gui (Bina Nusantara University, Indonesia)
3. **Verifiable Reasoning Framework for Legal Question Answering via RAG and Symbolic Rules**
   Diem Pham, Dung Dang and Dung Dinh (University of Information Technology, Vietnam); Hung Ngo (University Collegue Dublin, Ireland); Jose Machado (University of Minho, Portugal); Tai Huynh (Kyanon Digital, Singapore); Hien Nguyen (University of Information Technology, Vietnam)
4. **Student Views of Generative AI: Balancing Efficiency and Ethics in Academic Assignments**
   Muhammad Raizaki Rinadi (Bina Nusantara University, Indonesia); Novan Zulkarnain (University of Bina Nusantara, Indonesia)
5. **KNN-Driven Automated Exam Form Generation in an AI-Based Online Examination System: Design, Implementation, and Validation**
   Oras Baker (Ravensbourne University London, United Kingdom (Great Britain)); Dobrila Lopez (School of Computing, Eastern Institute of Technology, New Zealand); Kasthuri Subaramaniam (Universiti Malaya, Malaysia); Sellappan Palaniappan (Help University, Malaysia); Gayathri Mageswaran (UNIMY, Malaysia); Aditya Oza (IIIT Naya Raipur, India)

3D 3:45–5:00 pm ZOOM D

Big Data Analytics

Chair: Khairi Azhar Aziz (Universiti Tenaga Nasional, Malaysia)

1. **SMARTWIND: An Agentic AI-Driven Renewable Energy Intelligence Framework for Wind Power Forecasting, Smart Grid Optimization, and Sustainable Energy Management**
   Khairi Azhar Aziz and Halimah Badioze Zaman (Universiti Tenaga Nasional, Malaysia); Suraya Abu Salim (Universiti Putra Malaysia, Malaysia); Norshuhani Zamin (Universiti Tenaga Nasional, Malaysia); Noor Akma Abu Bakar, Ts (Universiti Tenaga Nasional, Malaysia & UNITEN, Malaysia)
2. **Facility-Level Weather Sensitivity Analysis Using High-Frequency GPS-Based Mobile Location Data**
   Yoshiyuki Suimon (Keio University, Japan)
3. **Learnable Knowledge Distillation with Scaled-Attention for Sign Language Translation**
   Shaoting Cui (The University of Auckland, New Zealand); Xinfeng Ye (University of Auckland, New Zealand); Sathiamoorthy Manoharan (The University of Auckland, New Zealand)

3D 3:45–5:00 pm · continued ZOOM D

Big Data Analytics

4. **BBOA-CNN: Optimizing Deep Feature Selection Using Binary Butterfly Optimization Algorithm for Brain Tumor Classification**
   Maher Talal Al-Asaady (Northern Technical University, Iraq); Teh N M Aris (Universiti Putra Malaysia & Faculty of Computer Science & Information Technology (FSKTM), Malaysia); Abdulrahman Khalaf (University of Fallujah & Computer Centre, Iraq)

5. **Predicting Next-Cycle Recorded Defect Occurrence in 33 kV Distribution Switchgear: A Machine Learning Benchmark Using Multi-State Utility Data**
   Naziffa Raha Md Nasir (Universiti Tenaga Nasional, Malaysia); Walid Maioute (EMINES School of Industrial Management, Mohammed VI Polytechnic University, Morocco); Moamin A Mahmoud (Universiti Tenaga Nasional, Malaysia); Asmidar Abu Bakar (UNITEN, Malaysia); Halimah Badioze Zaman (Universiti Tenaga Nasional, Malaysia)

DAY 2

Tuesday, October 13

1A 9:00–10:30 am Room Westin 1 ZOOM A

Open Systems, Wireless, Ad Hoc and Sensor Networks & Postgraduate Symposium

Chair: Norazian Mohd Hamdan (Universiti Malaysia Sarawak & Universiti Putra Malaysia, Malaysia)

1. **An Ontology Model for Semantic Interoperability Across Multi-Cloud Platforms**
   Norazian Mohd Hamdan (Universiti Malaysia Sarawak & Universiti Putra Malaysia, Malaysia); Novia Indriaty Admodisastro and Mohd Hafeez Osman (Universiti Putra Malaysia, Malaysia); Sufri Muhammad (Universiti Purta Malaysia, Malaysia)
2. **VOC-Based Freshness Assessment of a Highly Perishable Plant-Based Liquid Matrix Using a Gas Sensor Array and Comparative Machine Learning**
   Rajina M A Raj Mohamed (UNITEN, Malaysia); Rajina R Mohamed (Universiti Putra Malaysia (UPM), Malaysia); Razali Yaakob (Universiti Putra Malaysia, Malaysia); Tuan Dir Tengku Mohd Azahar (Universiti Kuala Lumpur (UNIKL), Malaysia); Nor Azura Husin (UPM, Malaysia); Nurul Azwaani Salehuddin Haqe (Universiti Tenaga Nasional (UNITEN), Malaysia); Zuhaira Muhammad Zain (College of Computer and Information Sciences,, Saudi Arabia)
3. **Innovation Readiness Segmentation for Bamboo-Based Composite Adoption in Malaysian Furniture Manufacturing**
   Noor Aslinda Abu Seman (UTHM, Malaysia)
4. **Strategic Prioritization of Entrepreneurial Capabilities in Women-Owned SMEs Using the Analytic Hierarchy Process**
   Umi Kartini Rashid (Universiti Tun Hussein Onn Malaysia, Malaysia); Noor Aslinda Abu Seman (UTHM, Malaysia); Rissa Hanny (Universitas Pamulang, Indonesia); Siti Nur Aisyah Alias (Universiti Teknikal Malaysia Melaka, Malaysia)
5. **Addressing the First-Mover Advantage of Multi-Round Competitive Influence Maximization**
   Jiin Yih Tan (Sunway University College, Malaysia); Kai An Sim (Taylors University, Malaysia); Hui Na Chua (Sunway University, Malaysia)
6. **Hybrid Physics-Informed Neural Network Prediction of Hemodynamics Across Multiple Stenosis Severities**
   Sunday Akinwamide, Farhan Mohamed and Mohd Sharizal Sunar (Universiti Teknologi Malaysia, Malaysia); Ogunnusi Olumide Simeon and Akintoye Kayode Akinlekan (The Federal Polytechnic, Ado Ekiti, Nigeria)

1B 9:00–10:30 am Room Westin 2 ZOOM B

e-Learning, e-Management and e-Services Tracks

Chair: Neesha Jothi (Universiti Tenaga Nasional, Malaysia)

1. **An AI Literacy Framework for Children in Malaysian Welfare Shelter Homes: A Literature-Informed, Stakeholder-Informed Approach**
   Neesha Jothi (Universiti Tenaga Nasional, Malaysia)
2. **Developing Emerging Computing Literacy Through Experiential Learning: A Case Study of the UNIMY Young Tech Camp**
   Syaiful Anas Suhaimi (University Malaysia of Computer Science and Engineering & Univerisiti Kebangsaan Malaysia, Space Science Centre, Malaysia); Habibollah Haron (Universiti Teknologi Malaysia & UTM, Malaysia); Muhammad Faizol Ahmad Ibrahim, Noor Fadzillah Azman and Muhammad Haqeem bin Mohd Nasir (University Malaysia of Computer Science and Engineering, Malaysia)
3. **Pilot Evaluation of BijakDys: An Adaptive Gamified Learning Application for Dyslexic Learners**
   Siti Faizah Miserom (Universiti Kebangsaan Malaysia, Malaysia & Universiti PolyTech Malaysia, Malaysia); Tengku Siti Meriam Tengku Wook (Universiti Kebangsaan Malaysia, Malaysia); Siti Fadzilah Mat Noor (National University Of Malaysia, Malaysia); Saifuddin Mohtaram (Universiti Poly-Tech Malaysia, Malaysia)
4. **A Framework for Visualizing Gaps Between Presenter's Emphasis and Audience Attention to Support Presentation Improvement**
   Takehiro Omiya, Sho Onami, Misaki Abe, Ryo Onuma and Hiroki Nakayama (Fukushima University, Japan); Youzou Miyadera (Tokyo Gakugei University, Japan); Shoichi Nakamura (Fukushima University, Japan)
5. **A System for Generating Cues Using AI to Support Learners' Trial-and-Error in Programming Exercises**
   Rikuto Kawasaki, Sho Onami, Ryo Onuma and Hiroki Nakayama (Fukushima University, Japan); Youzou Miyadera (Tokyo Gakugei University, Japan); Shoichi Nakamura (Fukushima University, Japan)
6. **Automated Generation and Validation of Functional and Non-Functional Requirements Using a Smart Template-Based Approach**
   Norhayati Mohd Ali (UPM, Malaysia); Farid Juliano (Universiti Putra Malaysia, Malaysia); Jaewon Oh (School of Computer Science Information Engineering, Catholic University of Korea, Korea (South))

1C 9:00–10:30 am ZOOM C

Networking and Information Security & Big Data Analytics

Chair: Eszleen binti Sies (Universiti Tenaga Nasional, Malaysia)

1. **Developing an Early Warning Dashboard for Predicting on-Time Graduation Using Machine Learning Techniques**
   Eszleen binti Sies and Halimah Badioze Zaman (Universiti Tenaga Nasional, Malaysia); Nor Hamizah Miswan (Universiti Kebangsaan Malaysia, Malaysia); Faridah Hani M Salleh, Noor Fardela Zainal Abidin and Nor Zaity Zakaria (Universiti Tenaga Nasional, Malaysia)
2. **Adversarial Attacks on Large Language Models: A Practical Evaluation of Security Weaknesses and Mitigation Strategies**
   Pau Mateu (St. Mary's University in San Antonio, USA); Ayad Barsoum (St. Mary's University in San Antonio, USA)

1C 9:00–10:30 am · continued ZOOM C

Networking and Information Security & Big Data Analytics

3. **Trustworthy Compressed Human Activity Recognition: Explanation Quality in Wearable Sensing**
   Mohammad Shahid Akhtar and Iftab Uddin Ahmed (University of Malaya, Malaysia); Mohammad Irfanul Haque, Jaden Abraham Jeffrey Singh and Mohammad Aminul Islam (Universiti Malaya, Malaysia)
4. **Speech-Based Stress Detection for Children via Convolutional Neural Network and MFCC Features**
   Nur Dayana Juanidi, Ani Liza Asnawi, Nur Aishah Zainal, Ahmad Zamani Jusoh, Siti Noorjannah Ibrahim and Huda Adibah Mohd Ramli (International Islamic University Malaysia, Malaysia); Norharyati Binti Harum (Universiti Teknikal Malaysia Melaka, Malaysia)
5. **Quarterly Cumulative Return Classification Using an Optuna-Optimized XGBoost Model Based on Financial Fundamental Variables**
   Edwin Setiawan Nugraha (President University, Indonesia); Rifky Fauzi (Institut Teknologi Sumatera, Indonesia); Aldy Candra Winata (President University, Indonesia); Norani Saro (UNITAR University, Malaysia)
6. **Plancana: An Integrated Blockchain-GIS Architecture for Agricultural Supply Chain Traceability**
   Nur Nasuha Daud (University of Malaya, Malaysia); Mirza Azhan Hazmirul and Iqbal Danial Firdaus (Universiti Malaya, Malaysia)

1D 9:00–10:30 am ZOOM D

Big Data Analytics & Graphic and Interactive Media

Chair: Yeh Ching Low (Sunway University, Malaysia)

1. **Assessing Explainability Under Incomplete Data: A Comparative Study of SHAP and LIME for Artificial Neural Networks**
   Yan Qi Tham and Yeh Ching Low (Sunway University, Malaysia)
2. **AI-Based Course Search System Using Retrieval-Augmented Generation**
   Mohd Suffian Sulaiman and Puteri Nursyawati Azzuri (Universiti Teknologi MARA, Malaysia)
3. **Machine Learning and Deep Learning for Blood Glucose Prediction in Diabetes Self-Management**
   Sann Lwin Moe, Batumalay Malathy and Yin Myo Thant (INTI International University, Malaysia); Pavan Kumar Pagadala (K L University, India)
4. **Machine Learning Prediction of 1-Year MACE After Percutaneous Coronary Intervention in Coronary Bifurcation Patients**
   Nurul Alia Binti Azmi (Universiti Teknologi Mara, Malaysia); Siti Afiqah Muhamad Jamil (Universiti Teknologi MARA, Malaysia)
5. **Optimising Water Quality Monitoring: An Ensemble Learning Approach with Wrapper Feature Selection**
   Nurhidayah Ahmad (Universiti Teknologi Mara, Malaysia); Mahayaudin M Mansor and Siti Afiqah Muhamad Jamil (Universiti Teknologi MARA, Malaysia); Nor Azura Md Ghani (University Teknologi MARA, Malaysia); Nurain Ibrahim (Universiti Teknologi MARA, Malaysia)

1D 9:00–10:30 am · continued ZOOM D

Big Data Analytics & Graphic and Interactive Media

6. **Design and Evaluation of a Standalone, Privacy-Preserving Posture Monitoring Device Using MediaPipe Pose and Rule-Based Classification for Desk-Based Computer Users**
   Earl Angelo Borlasa and Ramon Garcia (Mapua University, Philippines); Marloun Sejera (Proffesor, Philippines)

11:00 am–12:00 pm	**Keynote**	· Prof. Dr. Jari Porras	· Moderator: Prof. Dr. Lau Sian Lun	ZOOM A

2A 2:00–3:15 pm Room Westin 1 ZOOM A

Big Data Analytics, Wireless, Ad Hoc and Sensor Networks, Graphic and Interactive Media, Postgraduate Symposium

Chair: Li Xiang Sem (Sunway University College, Malaysia)

1. **Handwriting-Based Race Prediction of the Malaysian Population Using Deep Learning Approaches for Forensic Applications**
   Li Xiang Sem (Sunway University College, Malaysia); Hui Na Chua and Wai Chong Chia (Sunway University, Malaysia); Kah Haw Chang (Universiti Sains Malaysia, Malaysia)
2. **Active Multi-Fidelity Virtual Sample Generation with POD-Galerkin Reduced Models for Data-Scarce Predictive Maintenance**
   Maryamsadat Tahavori (Technical University of Denmark, Denmark); Hamid Reza Shaker (University of Southern Denmark, Denmark)
3. **Reliability-Driven Cross-Band Attention for Robust Dual-Band Wi-Fi Fingerprint Indoor Localization**
   Muhammad Rizwan (Multimedia Universtiy, Malaysia); Yin Hoe Ng and Hin Yong Wong (Multimedia University, Malaysia); Chee Keong Tan (Monash University Malaysia, Malaysia)
4. **Safety-Aware Prompt Engineering for Physical AI: Vision-Language Model-Guided Robot Arm Control**
   Sae Kobayashi, Karen Kawai, Satoshi Okada, Koki Watarai and Takuho Mitsunaga (Toyo University, Japan)
5. **AI-Assisted Interactive Visual Media for Maritime Education: A Human-Centered Framework for Transforming Technical Performance Data into Competency-Based Learning Feedback**
   Ashraf Ragab (Sharjah Maritime Academy, United Arab Emirate); Amal Zaki (Sharjah Maritime Academy, United Arab Emirates)

2B 2:00–3:15 pm Room Westin 2 ZOOM B

e-Learning, e-Management and e-Services Tracks & Open Systems

Chair: Jazurainifariza Jaafar (Universiti Sultan Zainal Abidin, Malaysia)

1. **An Edge AI-Enabled Smart Recycling Bin Integrating Deep Learning Image Recognition and IoT for Intelligent Waste Segregation**
   Jazurainifariza Jaafar and Wan Aezwani Bt Wan Abu Bakar (Universiti Sultan Zainal Abidin, Malaysia); Ahmad Shukri Mohd Noor (Universiti Malaysia Terengganu, Malaysia); Mairizal Zainuddin (Universitas Pamulang, Indonesia)
2. **New Frontiers for Volunteering in the Age of AI**
   Johannes Schönböck (Upper Austrian University of Applied Sciences, Hagenberg, Austria); Werner Retschitzegger (Johannes Kepler University Linz, Austria); Wieland Schwinger (University of Linz, Austria); Birgit Pröll and Elisabeth Kapsammer (Johannes Kepler University Linz, Austria); Marianne Lechner (University of Arts, Linz, Austria)
3. **Evaluating the Sustainability of M-Government Applications Using the MGOV-SI Framework**
   Adawiyah Md Ashar, Nur Fazidah Elias and Ruzzakiah Jenal (Center for Software Technology & Management, Faculty of Information Science & Technology, Universiti Kebangsaan Malaysia); Lam Meng Chun (Center for Artificial Intelligence Technology Faculty of Information Science&Technology, Universiti Kebangsaan Malaysia)
4. **SMEs' Adoption of Halal Virtual Inspection Technology: A Behavioural Study in Malaysia**
   Nurulhuda Noordin, Nur Nazifa Elisa Abd Hamid, Ahmad Iqbal Hakim Suhaimi and Wan Abdul Rahim Wan Mohd Isa (Universiti Teknologi MARA, Malaysia); Harco Leslie Hendric Spits Warnars (Bina Nusantara University, Indonesia)
5. **OCR Digitalization of Arabic-Malay Dictionary Using 3-Letter Root Word-Based Morphological System**
   Nur Syuhada M Redzuan Lean, Siti Noorjannah Ibrahim, Ani Liza Asnawi, Nurazzelena Nurazzelena Abdullah and Nor Fadhillah Mohamed Azmin (International Islamic University Malaysia, Malaysia); Musab Al Rawi Accepted (University of Technology and Applied Sciences, Oman)

2C 2:00–3:15 pm ZOOM C

Graphic and Interactive Media & Wireless, Ad Hoc and Sensor Networks

Chair: Sharifah Nurulhikmah Syed Yasin (Universiti Teknologi MARA & Universiti Teknologi Malaysia, Malaysia)

1. **Expert Evaluation and Content Validity Index Analysis of the Mobility Dimension in MEGUX**
   Sharifah Nurulhikmah Syed Yasin (Universiti Teknologi MARA & Universiti Teknologi Malaysia, Malaysia); Roslina Ibrahim (UTM Kuala Lumpur Malaysia, Malaysia)
2. **Thermal Punch: A Low-Latency Computer Vision Pipeline for Markerless Exergaming**
   Rong You Ting and Hong Yu Tan (Tunku Abdul Rahman University of Management and Technology (TAR UMT), Malaysia); Chong Xin Yong (Tunku Abdul Rahman University Management and Technology, Malaysia); Chi Wee Tan, Ts (Tunku Abdul Rahman University of Management and Technology (TAR UMT), Malaysia)

2C 2:00–3:15 pm · continued ZOOM C

Graphic and Interactive Media & Wireless, Ad Hoc and Sensor Networks

3. **Generative AI Support for Novice UX Ideation: A Scoping Review of Tasks, Effects and Scaffolds**
   ShiChuan Zhang, Fang-Fang Chua and Amy Lim Hui Lan (Multimedia University, Malaysia)
4. **Decoding Discord: Assessing Human-Computer Interaction Through a Mixed-Methods Evaluation of Higher Education Students' Perceptions**
   Alyssa C Vicente (National University Philippines, Philippines & NU Dasmariñas, Philippines); Elmer M Aliño (National University, Philippines); Joan Katherine N Romasanta (National University, Philippines & NU Dasmarinas, Philippines); Cedirick L. Santiago, Anna Lissa Abello and Maricris Punzalan (National University Philippines, Philippines)
5. **User Acceptance of EcoTribe: A Community-Centered Mobile Application for Indigenous Communities**
   Norsyahirah Khairul Anuar (UNITEN, Malaysia); Nazrita Ibrahim (Universiti Tenaga Nasional, Malaysia); Asmidar Abu Bakar (UNITEN, Malaysia); Wahidah Hashim (Universiti Tenaga Nasional, Malaysia)
6. **Doppler-Assisted Lightweight Authentication with Federated Threshold Adaptation for Secure V2V Communications**
   Mohamed Khalfan AL Flaiti (National University of Malaysia (UKM), Malaysia); Mohammad Kamrul Hasan (UKM, Malaysia); Shayla Islam (UCSI University, Malaysia); Elankovan Sundararajan (Universiti Kebangsaan Malaysia, Malaysia); Suhaimi Abd Latif (Otago Polytechnic, New Zealand); Khairul Akram Zainol Ariffin (UKM, Malaysia)

2D 2:00–3:15 pm ZOOM D

Open Systems

Chair: Sajian Gao (Xiamen University Malaysia, Malaysia)

1. **VaxHERO: A Risk-Aware Distributed Cloud-Edge-End Orchestration Framework for Cold-Chain IoT Systems**
   Yuxuan Huang, Fengxun Liu, Sajian Gao and Burra Venkata Durga Kumar (Xiamen University Malaysia, Malaysia)
2. **A Bounded Agentic AI System for Retrieval-Grounded Debugging of Cadence Genus Tcl Scripts and Runtime Logs**
   Li Huey Owi and J. Joshua Thomas (UOW Malaysia KDU Penang University College, Malaysia); Andrew Hooi Leong Chuah (Intel Microelectronics (M) Sdn Bhd, Penang, Malaysia); Yeap Gik Hong and Hock Kheng Sim (UOW Malaysia KDU Penang University College, Malaysia)
3. **AI-Driven Intrusion Detection Using Ensemble Learning for Zero-Day Attack Mitigation**
   Yogesh Kumar Awasthi and Talon Garikayi (Africa University, Zimbabwe)
4. **PaperNest: A Novel AI-Assisted Interactive Academic Reference Software Tool**
   Nicole Tye Chin Pei, Shyamala Nadarajan, Justtina Anantha Jothi John and J. Joshua Thomas (UOW Malaysia KDU Penang University College, Malaysia)

2D 2:00–3:15 pm · continued ZOOM D

Open Systems

5. **Crowdsourced Spatial Data for Inclusive Smart Campus Navigation**
   Shaamalan Kanthan (Universiti Tun Hussein Onn Malaysia, Malaysia); Hanayanti Hafit (Fakulti Sains Komputer dan Teknologi Maklumat, Universiti Tun Hussein Onn Malaysia, Malaysia); Munirah Mohd Yusof (Universiti Tun Hussein Onn Malaysia & Faculty of Science Computer & Information Technology, Malaysia); Ruhaya Ab Aziz (Universiti Tun Hussein Onn Malaysia, Malaysia); Rozlini Mohamed (UTHM, Malaysia)

3A 3:45–5:00 pm Room Westin 1 ZOOM A

e-Learning, e-Management and e-Services Tracks

Chair: Siti Nurliana Jamali (Universiti Malaya, Malaysia)

1. **MyCyberHero: A Cloud-Native Gamified Cybersecurity Learning Ecosystem for Malaysian Novices**
   Darwish Irfan Bin Zulhailmy and Siti Nurliana Jamali (Universiti Malaya, Malaysia)
2. **Toward an Extended UTAUT Framework for AI-Assisted Personalised Teaching in Dyslexia Education: Development and Preliminary Validation**
   Nurshafinas Roslan (Universiti Tun Hussein Onn Malaysia, Malaysia & Universiti Poly-Tech Malaysia, Malaysia); Abd Samad Hasan Basari (UTHM, Malaysia); Saifuddin Mohtaram, Noor Maizatulshima binti Muhammad Sabri and Mariani Binti Mohd Dahlan (Universiti Poly-Tech Malaysia, Malaysia); Azhar Bin Sadikan (Teralogic Solutions Sdn Bhd, Malaysia)
3. **Beyond Code Generation: Examining Students' Perceptions, Experiences and Skill Development in Generative Artificial Intelligence-Assisted Programming Education**
   Renen Paul M Viado and Elmer M Aliño (National University, Philippines); Alyssa C Vicente (National University Philippines, Philippines & NU Dasmariñas, Philippines); Alvin E. Camacho, St. Joseph L. Lumbog and Rudante M Galapon (National University Philippines, Philippines)
4. **MathKids AI, for Personalizing Mathematics Learning in Primary School Students Using Random Forest**
   Alvaro Valenzuela and Alejandrina Huarcaya (Universidad Peruana de Ciencias Aplicadas, Peru); Paola Torrejón Pachamoro (Universidad Peruana de Ciencias Aplicadas (UPC), Peru)
5. **AdaptiveIQ: Pedagogical Arbitration in Hybrid LLM Framework for Affect-Adaptive Intelligent Tutoring**
   Humera Gull Ghulam Mustafa and Farhan Mohamed (Universiti Teknologi Malaysia, Malaysia)

3B 3:45–5:00 pm Room Westin 2 ZOOM B

Graphic and Interactive Media

Chair: Noor Fardela Zainal Abidin (Universiti Tenaga Nasional, Malaysia)

1. **A Virtual Reality Prototype for Semiconductor Devices Learning in Electrical Engineering Education**
   Noor Fardela Zainal Abidin (Universiti Tenaga Nasional, Malaysia); Amir Huzaifah Bin Mohd Fahmi (University Tenaga Nasional, Malaysia); Masyura Ahmad Faudzi (Universiti Tenaga Nasional, Malaysia)

3B 3:45–5:00 pm · continued Room Westin 2 ZOOM B

Graphic and Interactive Media

2. **Elevating Individual Performance Through AI: The Role of E-Lifestyle, AI Adoption, and AI Acceptance in the Modern Workplace**
   Ahmad Fikron Maulida (Bina Nusantara University, Indonesia); Sylva Auliya and Monica Wahyu Sayyidina (Binus University, Indonesia); Aisyah Qanita (Bina Nusantara University, Indonesia)
3. **Sentence-Level Filipino Sign Language Recognition with Integrated Facial Emotion Detection Using a Multimodal Deep Learning Framework**
   Hugh Angelo Sonon, Jose Romeo Prudencio, Jan Kevin Albior Galicia and Carlos Oppus (Ateneo de Manila University, Philippines)
4. **Toward Energy-Efficient Collision Detection: A GPU Power-Profiling Benchmark Across Mesh Complexity**
   Iznora Aini Aini Binti Zolkifly (Universiti Tenaga Nasional, Malaysia); Hamzah Asyrani Sulaiman (Universiti Teknikal Malaysia Melaka, Malaysia); Halimah Badioze Zaman (Universiti Tenaga Nasional, Malaysia); Nazreen Abdullasim (Universiti Teknikal Malaysia Melaka, Malaysia); Mohamad Lutfi Dolhalit (UTEM, Malaysia)
5. **Mobile Application to Increase Tourism Based on Augmented Reality and Gamification for Visitors to Historic Centers of Peru**
   Jymmy Dextre, Franco Joel Hurtado Amado and Gonzalo Agustin Córdova Gonzales (Universidad Peruana de Ciencias Aplicadas, Peru)

3C 3:45–5:00 pm ZOOM C

e-Learning, e-Management and e-Services Tracks

Chair: Wei Leik Tan (Universiti Sains Malaysia, Malaysia)

1. **Predicting the Influence of Technological Factors and Moderating Role of Information Technology Governance on Cybersecurity Practices Adoption Among Malaysian Small and Medium Sized Enterprises**
   Wei Leik Tan (Universiti Sains Malaysia, Malaysia); Yuvaraj Ganesan (Universiti Sains Malaysia (USM), Malaysia)
2. **Human Factors in AI Adoption: A Mixed-Methods Examination of Employee Perceptions of Workplace AI Integration**
   Jaypy Tenerife (Technological Institute of the Philippines, Philippines); George C. Domantay, Ana Ma. Alexandra B. Ibarra and Mohammad Pakanna Deocareza (Technological Institute of the Philippines-Manila, Philippines)
3. **Predicting Chronic Complications of Diabetes Mellitus from Risk Factors: Less is Better**
   Insu Song (James Cook University, Australia); Usman Malabu (James cook university, Australia); Ye Naing (James Cook University of North Queensland, Australia)
4. **The Influence of Algorithmic Content Recommendations on Doomscrolling Tendencies in Social Networking Applications: Meta Analysis Review**
   Elmer M Aliño (National University, Philippines); Alyssa C Vicente (National University Philippines, Philippines & NU Dasmariñas, Philippines); Cedirick L. Santiago and Michael C. Galo (National University Philippines, Philippines); Joan Katherine N Romasanta (National University, Philippines & NU Dasmarinas, Philippines); Jobert D Bravo (National University - Philippines, Philippines)

3C 3:45–5:00 pm · continued — ZOOM C

e-Learning, e-Management and e-Services Tracks

5. **Unveiling the Drivers of Metaverse Adoption: Linking Technology Acceptance and Learning and in Higher Education**
   M. Abrams Ksatria Chandra, Anderes Gui and Stephen Gregorius Kurnia (Bina Nusantara University, Indonesia); Evaristus Didik Madyatmadja (Bina Nusantara University & School of Information Systems, Indonesia); Van Van Chau (Posts and Telecommunications Institute of Technology, Vietnam); Riki (Universitas Buddhi Dharma, Indonesia)

3D 3:45–5:00 pm — ZOOM D

Wireless, Ad Hoc and Sensor Networks & Graphic and Interactive Media

Chair: Siti Zahidah Abdullah (Universiti Tenaga Nasional, Malaysia)

1. **Empirical Evaluation of a 3D CBT Game Prototype for Youth Anxiety Intervention**
   Siti Zahidah Abdullah (Universiti Tenaga Nasional, Malaysia); Ameer Hazim Shahmi Bin Che Alias (Universiti Kebangsaan Malaysia, Malaysia)
2. **ResQTrack: An Integrated Hybrid Emergency Communication System Using LTE, GNSS, Wi-Fi AP, and RSSI-Based Proximity Guidance**
   Vermariah Loreigne Pineda, Charlene Marasigan, Reuel Johannes Ilaw and George C. Domantay (Technological Institute of the Philippines-Manila, Philippines); Jaypy Tenerife (Technological Institute of the Philippines, Philippines)
3. **Towards Trustworthy Deepfake Detection: A Comparative Evaluation of Commercial Deepfake Detection Tools Through Performance, Agreement and Failure Analysis**
   Nurul Syahindah Shariful Yazan, Masyura Ahmad Faudzi and Ridha Omar (Universiti Tenaga Nasional, Malaysia); Zaihisma Che Cob (University Tenaga Nasional (UNITEN), Malaysia); Aliza Abdul Latif and Faridah Hani M Salleh (Universiti Tenaga Nasional, Malaysia)
4. **Few-Shot Local Adaptation for Robust Traffic Sign Localization Under Real-World Visibility Degradation**
   Xinran Cheng (Xiamen University Malaysia, Malaysia); Chang Soon Tony Hii (School of Artificial Intelligence and Robotics, Xiamen University Malaysia, Malaysia)
5. **Biofouling Multiclass Classification and Scoring on Green Mussels (Perna Viridis) Using Image Processing**
   Raiza Dimapilis Borreo (Higher Colleges of Technology, United Arab Emirates)

6:00–9:00 PM **DINNER** — ZOOM A

DAY 3

Wednesday, October 14

1A 9:00–10:30 am Room Westin 1 ZOOM A

Graphic and Interactive Media,Wireless, Ad Hoc and Sensor Networks & Postgraduate Symposium

Chair: Nor Badrul Anuar (Universiti Malaya, Malaysia)

1. **Combination Space of Visualization Techniques in Multi-View Comparative Biodiversity Genomics Tools: A Systematic Literature Review**
   Vei Siang Chan, Farhan Mohamed and Faezah Mohd Salleh (Universiti Teknologi Malaysia, Malaysia); Andres Iglesias (University of Cantabria, Spain & Toho University, Japan); Alfie Abdul-Rahman (King's College London, United Kingdom (Great Britain)); Marilyn Miga (Universiti Teknologi Malaysia, Malaysia); Fallah H. Najjar (Al-Furat Al-Awsat Technical University, Iraq & Universiti Teknologi Malaysia, Malaysia); Cao Chun Qing (Universiti Teknologi Malaysia, Malaysia); Ikmal Faiq Albakri Mustafa Albakri (Universiti Teknikal Malaysia Melaka, Malaysia)
2. **PintarDigit: A Tangible Number Sense Application for Children with Dyscalculia to Learn on Rules of Arithmetic: A Proof-of-Concept Study**
   Siti Nurliana Jamali and Ariff Irfan Bin Che Hamzah (Universiti Malaya, Malaysia)
3. **Generative AI for High Resolution Rainfall Nowcasting: A Systematic Review of Multi Modal Data Fusion**
   Lubabatu Sada Sodangi, Mohd Hazli Mohamed Zabil and Mohd Zafri Baharuddin (Universiti Tenaga Nasional, Malaysia); Hidayah Basri (Universiti Tenaga Nasional Sdn. Bhd., Malaysia)
4. **Awarely: An Adaptive Generative Health-Conscious User Interface Web Application for Smart Tracking**
   Simeran Kaur Kalwant Singh, Pavithiran Mahendran, Nithia Sree Ganesan and Raja Jamilah Raja Yusof (Universiti Malaya, Malaysia)
5. **Heuristic Evaluation Frameworks for Mobile Game-Based STEM Learning: A Systematic Literature Review of Dimensional Coverage Gaps**
   Raidah binti Yazid (Universiti Teknikal Malaysia Melaka & University Malaysia of Computer Science and Engineering, Malaysia)

1B 9:00–10:30 am Room Westin 2 ZOOM B

Big Data Analytics, Postgraduate Symposium & Graphic and Interactive Media

Chair: Muhammad Faiz Mohd Zaki (Universiti Malaya, Malaysia)

1. **Can Local Models Power Conversational Analytics? A Failure-Mode Benchmark on a Live Institutional MCP Server**
   Muhammad Faiz Mohd Zaki (Universiti Malaya, Malaysia); Anis Syahira (Data and Information Management Centre, Universiti Malaya, Malaysia); Mohamad Hazim Md Hanif (Universiti Malaya, Malaysia)

1B 9:00–10:30 am · continued Room Westin 2 ZOOM B

Big Data Analytics, Postgraduate Symposium & Graphic and Interactive Media

2. **DeepCluster-Based Subset Selection for Efficient Training of Satellite Image Super-Resolution**
   Alvin Alexander Idin, Anis Nadiah Rahmat and Nor Erne Nazira Bazin (Universiti Teknologi Malaysia, Malaysia)
3. **Domain-Guided, State-Conditioned Spatiotemporal Forecasting for Civil Structural Health Monitoring: A Critical Review and Research Agenda**
   Hong Li, Farhan Mohamed, Cao Chun Qing and Vei Siang Chan (Universiti Teknologi Malaysia, Malaysia)
4. **Staged Pseudo-Labels for Low-Label Cardiac MRI Segmentation: A Fixed-Protocol nnU-Net v2 Evaluation on ACDC**
   Lee Jun Heng, Farhan Mohamed and Tarmizi Adam (Universiti Teknologi Malaysia, Malaysia)
5. **PhonoBuddy: An IoT-Enabled Smart Tangible Phonic System for Children with Dyslexia in Learning Malay Language**
   Siti Nurliana Jamali, Cheong Yan Jie and Siti Hafizah Ab Hamid (Universiti Malaya, Malaysia)
6. **Shelfy: An Emotion-Driven Augmented Reality Mobile Library Application Guided by Kansei Engineering and Multivariate Statistical Analysis**
   Nik Azlina Nik Ahmad (Universiti Kuala Lumpur, Malaysia); Anitawati Mohd Lokman (Universiti Teknologi MARA, Malaysia)

1C 9:00–10:30 am ZOOM C

Graphic and Interactive Media & Networking and Information Security

Chair: Iznora Aini Aini Binti Zolkifly (Universiti Tenaga Nasional, Malaysia)

1. **Enhanced Fiducial Marker and Lightweight Depth Masking for Robust Tracking and Occlusion Handling in Wrist-Based Mobile Augmented Reality Try-on Systems**
   Iznora Aini Aini Binti Zolkifly (Universiti Tenaga Nasional, Malaysia); Rechard Lee and Wong Xiu Jian (Universiti Malaysia Sabah, Malaysia); Hamzah Asyrani Sulaiman (Universiti Teknikal Malaysia Melaka, Malaysia); Norhaida Mohd Suaib (Universiti Teknologi Malaysia, Malaysia)
2. **Biomechanical Analysis System Using MediaPipe and YOLOX on Raspberry Pi for Low-Resource Sports Schools**
   Cesar Sanchez, Renato Velasquez and Javier Lacherre (Universidad Peruana de Ciencias Aplicadas, Peru)
3. **Comparison of Lightweight Deep Learning Models for Face Shape Classification in Web-Based Eyewear Virtual Try-on**
   Oh Kai Xuan and Nor Azizah Saadon (Universiti Teknologi Malaysia, Malaysia); Muhamad Najib Zamri (University of Southampton Malaysia, Malaysia)
4. **"Becoming an Autistic Student": Boundary Conditions of Full-Body Avatars and Mirror Feedback in Inclusive-Education VR Training**
   JI Tiantong (Taylor's University, Malaysia); Wei Wei Goh (Taylor's University, Malaysia); Mohamad Hariri Abdullah and Peipei Chong (Taylor's University, Malaysia)

1C 9:00–10:30 am · continued ZOOM C

Graphic and Interactive Media & Networking and Information Security

5. **Lifecycle-Aware API-Level Benchmarking of ICP-Brasil-Aligned ML-KEM-768 Hybrid Key Establishment**
   Julio Cezar Rodrigues Trindade and Yu Beng Leau (Universiti Malaysia Sabah, Malaysia)
6. **From Trade-off to Synergy: Grad-CAM Stability and Clinician Trust in Brain Tumor MRI Classification**
   Ann Ge Tan (Sunway University, Malaysia); Abdul Haris Rangkuti (Bina Nusantara University, Indonesia); Sian Lun Lau (Sunway University, Malaysia & Vellore Institute of Technology, India)

1D 9:00–10:30 am ZOOM D

Open Systems

Chair: Zhamri Che Ani (Universiti Utara Malaysia, Malaysia)

1. **A Docker-Based Deployment Framework for Distributed REST APIs in Higher Education**
   Zhamri Che Ani, Yuhanis Yusof and Mohamad Raziff Ramli (Universiti Utara Malaysia, Malaysia)
2. **LLM-Guided Neural Architecture Search for Optimized TinyML Models in Forest Fire Detection**
   Pedro Afonso Guerrato and Felipe Augusto Pereira de Figueiredo (INATEL, Brazil); Luiz Augusto Melo Pereira (CRR, Brazil & National Institute of Telecommunication, Brazil)
3. **Self-Evaluating Agentic Systems for Reliable AI Execution**
   Aswathnarayan Muthukrishnan Kirubakaran (Meta Inc, USA); Vinoth Punniyamoorthy and Murali Shankar Dulam (JPMorgan Chase, USA); Nachiappan Chockalingam (Meta, USA); Mythili Annamalai Sekar (Amazon Inc, USA); Srivenkateswara Reddy Sankiti (Cleveland State University, USA)
4. **Dual-Threshold Peer-to-Peer Task Offloading for Scalable UAV Swarms with Hard Energy Constraints in Maritime Search and Rescue**
   Zehua Li, Qi Lu, Wenxin Yan, Burra Venkata Durga Kumar and Jia Yew Teh (Xiamen University Malaysia, Malaysia)
5. **Empirical Insights into Sustainable Software Development: Mapping Green Practices and Software Waste Elements**
   Siti Rohana Ahmad Ibrahim (Universiti Tenaga Nasional, Malaysia)
6. **AI-Driven Load Balancing in Distributed Systems: A Review and the AFRL Framework**
   Ali Yeslam Ahmed Badokhon (Xiamen University Malasyia, Malaysia); Almonder Awed Saeed Bentaher, Burra Venkata Durga Kumar, Ahmad Affandi Supli and Mohammed Ali (Xiamen University Malaysia, Malaysia)

2A 11:00 am–12:15 pm Room Westin 1 ZOOM A

e-Learning, e-Management and e-Services Tracks & Big Data Analytics

Chair: Nurul Fizah Mohamad Nusran (Open University Malaysia (OUM) & National University Malaysia, Malaysia)

1. **Adult Learner Behaviour in a Learning Management System: The Need for Personalised Support**
   Nurul Fizah Mohamad Nusran (Open University Malaysia (OUM) & National University Malaysia, Malaysia); Tengku Siti Meriam Tengku Wook, Siti Fadzilah Mat Noor and Hairulliza Mohamad Judi (Universiti Kebangsaan Malaysia, Malaysia)
2. **Reducing Generative AI Bias in Food Recognition Using a Multi-Dimensional Culinary Representation Framework**
   Ngô Văn Giang, Trinh Bao Ngoc, Hoang Van Minh, Tran Quynh Phuong, Nguyen Thi Thuy, Tang Thi Phuong Mai and Nguyen Khanh Hung (Hanoi University, Vietnam)
3. **Deconstructing ASAG: Combining Deterministic NLP Tags with LLM Synthesis for Interpretable Grading**
   Trinh Bao Ngoc, Do Thanh Hai, Phung Thi Hien, Nguyen Thi Hai My, Le Thi Hai Yen and Vu Quoc Huy (Hanoi University, Vietnam)
4. **LLM-Based Adaptive Hybrid Retrieval for Multi-Agent Based Claim Verification**
   Tanvi Modi, Hong Ngoc Dao, Yasuhiro Hashimoto, Pratik Mallick and Truong Cong Thang (The University of Aizu, Japan)
5. **From Transparency to Validation: Explainable AI for Supply Chains**
   Esraq Humayun (Khwaja Yunus Ali University, Bangladesh); Kok Cheng Lim and Mohd Hazli Mohamed Zabil (Universiti Tenaga Nasional, Malaysia); Mostofa Mahmud Hasan and Md. Abdur Razzak (Khwaja Yunus Ali University, Bangladesh); Nguyet Quang Do, Mohd Shahar Abdullah and Ali Selamat (Universiti Teknologi Malaysia, Malaysia); Ondrej Krejcar (Skoda Auto University, Czech Republic & University of Hradec Kralove, Czech Republic); Petra Maresova (University of Hradec Kralove, Faculty of Informatics and Management, Czech Republic); Ramisa Maliyat Miti (Daffodil International University, Bangladesh)

2B 11:00 am–12:15 pm Room Westin 2 ZOOM B

Networking and Information Security

Chair: Nor Shamshillah Kamarzaman (UiTM, Malaysia & UPTM, Malaysia)

1. **Early Implementation of Multimodal Unmanned Aerial Vehicle (UAV) Forensic Framework with Integrity Verification and Explainable Convolutional Neural Network (CNN)**
   Nor Shamshillah Kamarzaman (UiTM, Malaysia & UPTM, Malaysia); Fakariah Hani Mohd Ali (Universiti Teknologi Mara, Malaysia); Noor Maizatulshima binti Muhammad Sabri (Universiti Poly-Tech Malaysia, Malaysia); Mohsen Mohamad Hata (Universiti Teknologi MARA, Malaysia); Zurina binti Jusoh (Universiti Poly-Tech Malaysia, Malaysia); Badri Azni (UiTM, Malaysia)
2. **An Uncertainty Aware Big Data Analytics Framework for Batch-Wise Network Intrusion Monitoring Using LightGBM and Mahalanobis-Distance-Based T^2 Analysis**
   Quratulain Khaliq and Zhi Lin Chong (Universiti Tunku Abdul Rahman, Malaysia); Kim Ho Yeap (UTAR, Malaysia)

2B 11:00 am–12:15 pm · continued Room Westin 2 ZOOM B

Networking and Information Security

3. **Strengthening Security Between End Node and Destination Server in an Onion Routing Protocol**
   Nor Shahniza Kamal Bashah (Universiti Teknologi MARA, Malaysia); Muhammad Arif Aiman Khairul Niza (Ogx Networks Sdn Bhd, Malaysia); Shapina Abdullah (UniversitiTeknologi MARA, Malaysia); Nurul Aishah Ab Raman, Ts (Universiti Teknologi MARA, Malaysia)
4. **A Systematic Literature Review of CRYSTALS-Dilithium Based Post-Quantum Digital Signatures for Secure Vehicle-to-Everything Communication**
   Rafiul Hoque, Wahidah Hashim and Halimah Badioze Zaman (Universiti Tenaga Nasional, Malaysia)
5. **VeriEYE: A Case Study of an AI-Assisted Mobile Application for Quishing Detection and Cybersecurity Awareness**
   Loviana Lenyu Dunstan Mandau and Faisal Mohd Amin (Universiti Tenaga Nasional, Malaysia)

2C 11:00 am–12:15 pm ZOOM C

Open Systems & Networking and Information Security

Chair: Moamin A Mahmoud (Universiti Tenaga Nasional, Malaysia)

1. **Closing the Loop on Electric Vehicle Batteries: A Review of Adoption, Recycling, Second-Life, and the Gaps That Remain**
   Abba Hassan and Moamin A Mahmoud (Universiti Tenaga Nasional, Malaysia); Mutahir Mohamed Ariff (Mutahir Bin Mohamed Ariff, Malaysia); Noor Jasim (Universiti Tenaga Nasional, Malaysia)
2. **Adaptive Stability Architecture for Managing AI Obsolescence Risk in Enterprise Systems**
   Muath Alrammal (University of Wollongong - Dubai Campus, United Arab Emirates); Manoj Kumar (University of Wollongong in Dubai, United Arab Emirates); Nourchène Elleuch Ben Ayed (HCT, United Arab Emirates); Keletso J. Letsholo (Higher Colleges of Technology, United Arab Emirates)
3. **Strategic Supplier Selection with Fuzzy Payoff Using NSGA-III for Nash Equilibrium Search**
   Doc Vu Van (The University of Economics Technology for Industries, Vietnam); Trinh Bao Ngoc (Hanoi University, Vietnam); Mai Hong Quan (HaNoi Univerrsity, Vietnam); Nguyen Cong Chien, Nguyen Thi Thuy Hien, Pham Quang Minh and Nguyen Minh Hieu (Hanoi University, Vietnam)
4. **Cybersecurity-Informed FWZIC-VIKOR Framework for Selecting Robust Machine Learning Models in Autism Triage**
   Ghadeer Ghazi (Imam Ja'afar Al-Sadiq University, Iraq); Mohd Hazli Mohamed Zabil and Kok Cheng Lim (Universiti Tenaga Nasional, Malaysia)
5. **Unseen Threats: Unveiling Cybersecurity Lessons from Breaches in Malaysia**
   Hui Na Chua and Ahmad Sahban Rafsanjani (Sunway University, Malaysia); Sian Lun Lau (Sunway University, Malaysia & Vellore Institute of Technology, India); Tai Hai Woon (PIKOM, The National Tech Association of Malaysia, Damansara Perdana, Petaling Ja, Malaysia)

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