UMS
UNIVERSITI MALAYSIA SABAH

Faculty of Computing & Informatics

AMICT2026

INTERNATIONAL CONFERENCE on Advances in Machine Intelligence and Cybersecurity Technologies

PALM BEACH RESORT & SPA
F.T LABUAN, MALAYSIA

12TH – 13TH NOVEMBER 2026

PROGRAMME BOOK

WELCOME MESSAGE FROM THE CHAIRMAN

Distinguished Guests, Keynote Speakers, Authors, and Delegates,



It is my great pleasure and honour to welcome all distinguished keynote speakers, researchers, academicians, industry practitioners, students, and participants to the 3rd International Conference on Advances in Machine Intelligence and Cybersecurity Technologies (AMICT2026), held on 12–13 November 2026 in F.T. Labuan, Malaysia. Held in conjunction with AMICT2026 is the International Postgraduate Symposium on Computing and Informatics (IPoSCI) 2026, which gives our postgraduate students a platform to present their research and engage with the wider research community.

Under the theme "Machine Intelligence Meets Cybersecurity", AMICT2026 provides an important international platform for sharing knowledge, presenting research innovations, and discussing emerging developments in machine intelligence, artificial intelligence, cybersecurity, data technologies, and other areas of computing. As intelligent technologies continue to transform our society, the need to develop secure, trustworthy, and sustainable digital solutions has become increasingly important. This year, AMICT2026 also features a special session on Digital Healthcare and Medicine, organised in collaboration with the Faculty of Medicine and Health Sciences, Universiti Malaysia Sabah.

This conference aims to bring together researchers, academics, industry experts, and technology practitioners from different backgrounds and countries to exchange ideas, establish meaningful collaborations, and explore opportunities for future research and innovation. I firmly believe that interdisciplinary engagement and international cooperation are essential in addressing the complex technological challenges facing our society.

Organising an international conference and symposium of this scale requires dedication, teamwork, and strong collaboration. I would like to express my sincere appreciation to the organising committee, technical committees, reviewers, supporting organisations, sponsors, keynote speakers, and all individuals who have contributed their time and expertise towards making AMICT2026 and IPoSCI2026 possible.

I also extend my gratitude to all authors and participants for their valuable contributions and continued support. Your participation makes this conference a meaningful avenue for academic exchange and professional networking.

I hope this conference and symposium will provide an enriching experience, inspire new research directions, strengthen international partnerships, and contribute to the advancement of knowledge in machine intelligence and cybersecurity technologies.

Finally, I wish everyone a productive and memorable conference. Welcome to Labuan, and I look forward to your active participation.

Assoc. Prof. Ts. Dr. Mohd Hanafi Ahmad Hijazi
Chairperson, AMICT2026

MESSAGE FROM THE CO-CHAIRMAN



Warm greetings to all participants of AMICT2026 and IPoSCI2026,

It is with great pleasure that I welcome all participants to the 3rd International Conference on Advances in Machine Intelligence and Cybersecurity Technologies (AMICT2026) and International Postgraduate Symposium on Comp uting and Informatics (IPoSCI) 2026. We are delighted to host this international gathering on 12–13 November 2026 in Labuan, Malaysia.

The rapid advancement of artificial intelligence, machine intelligence, and digital technologies is reshaping the way we live, work, and interact. At the same time, these developments introduce new challenges relating to cybersecurity, data protection, privacy, and the responsible use of intelligent systems. The theme of this year's conference, "Machine Intelligence Meets Cybersecurity", highlights the importance of bringing these complementary fields together to develop innovative, secure, and sustainable technological solutions.

AMICT2026 and IPoSCI2026 provide a valuable opportunity for researchers, academicians, postgraduate students, and industry professionals to share their latest findings, exchange perspectives, and explore emerging research opportunities. Beyond the presentation of research papers, we hope this conference will encourage meaningful discussions, foster new collaborations, and strengthen connections between academic institutions and industry.

As the organising team, we are committed to providing a constructive and engaging environment for knowledge sharing and professional networking. We are particularly grateful to our distinguished keynote speakers for sharing their expertise and insights, our reviewers for their invaluable contributions to the peer-review process, and our collaborators and sponsors for their continuous support.

My sincere appreciation also goes to the chairperson, organising committee, technical committees, secretariat, and all volunteers whose commitment and hard work have made this conference possible. Their collective efforts have been instrumental in bringing together an international research community.

I sincerely hope that all participants will take this opportunity to engage actively, exchange innovative ideas, establish lasting professional relationships, and gain new perspectives that will benefit their research and professional endeavours.

May AMICT2026 and IPoSCI2026 be a successful and memorable event, and may the connections established here lead to meaningful collaborations and impactful contributions to the future of intelligent and secure technologies.

Thank you, and welcome to AMICT2026 and IPoSCI2026!

AMICT 2026

Assoc. Prof. Ts. Dr. Chin Kim On
Co-Chairperson, AMICT2026

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VENUE



PALM BEACH RESORT & SPA
F.T LABUAN, MALAYSIA

SCAN ME
FOR DIRECTIONS

Day 1 – [12th November 2026, Thursday] ONSITE

Time	Programme
8:30 – 9:00	**Registration**
9:00 – 10:30	**Technical Session** *Track: Language Engineering, Visualization & Optimization* *Session Chair: Dr. Jackel Vui Lung Chew*
	Technical Session *Track: Advance Machine Learning & Cybersecurity* *Session Chair: Assoc. Prof. Dr. Chim Kim On*
	Technical Session *Track: Data Technologies & Decision Support System* *Session Chair: Dr. Florence Sia*
10:00 – 10:30	**Coffee Break**
10:30 – 12:00	*Welcoming Address and Opening Ceremony by Vice Chancellor Universiti Malaysia Sabah* & *LOI signing sessions*
12:00 – 12:45	*Keynote Speaker* Prof. Emeritus Dato' Ts. Dr. Tengku Mohd Bin Tengku Sembok *AI: Algorithm of Sovereignty and Civilisation*
12:45 – 2:15	**Lunch & Networking**
2:15 – 3:00	*Keynote Speaker* Prof. Adian Facthur Rochim *Beyond Reading the Science Map: Detecting the Dynamics of Cybersecurity Research*

Day 1 – [12th November 2026, Thursday] ONSITE

3:00 – 5:00	**Technical Session** *Track: User Experience* *Session Chair: Dr. Dinna Mohd Nizam*
	Technical Session *Track: Creative Computing* *Session Chair: Ms. Norhayati Daut*
	Technical Session *2026 1st International Postgraduate Symposium on Computing & Informatics (IPoSCI2026)*
4:00 – 5:00	**Coffee Break**

Day 2 – [13th November 2026, Friday] ONLINE

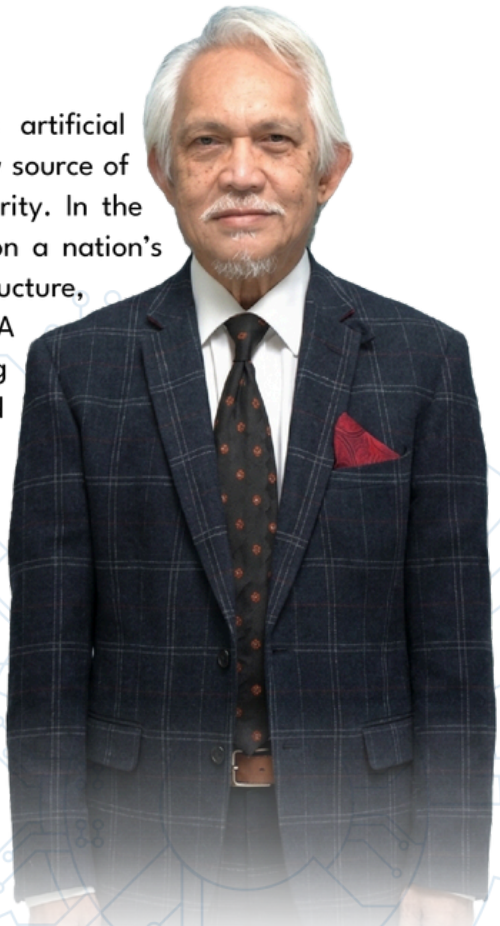
Time	Programme
8:30 – 9:00	**Registration**
9:00 – 9:45	*Keynote Speaker* Assoc. Prof. Dr. Varun Ojha *Safe and Sustainable Artificial Intelligence*
9:45 – 10:30	*Keynote Speaker* Prof. Dr. Selvakumar A/L Manickam *Securing Intelligence: Why Cybersecurity Must Evolve as Fast as the AI It Protects*
10:30 – 12:00	**Technical Session** *Track: Data Technologies & Applications* *Session Chair: Dr. Tan Soo Fun*
	Technical Session *Track: Advance Machine Learning I* *Session Chair: Assoc. Prof. Ts. Dr. Leau Yu Beng*
	Technical Session *Track: Advance Machine Learning II* *Session Chair: Dr. Mohammed Ahmed*
	Technical Session *Track: Advance Machine Learning III* *Session Chair: Assoc. Prof. Ts. Dr. Chin Kim On*
	Technical Session *Track: Cybersecurity I* *Session Chair: Dr. Gohar Rahman*
	Technical Session *Track: Cybersecurity II* *Session Chair: Ms Nordaliela Mohd Rusli*

Day 2 – [13th November 2026, Friday] ONLINE

	Technical Session *Track: Decision Support System* *Session Chair: Dr. Norazlina binti Khamis*
	Technical Session *Track: Optimization and Visual Analytics* *Session Chair: Assoc. Prof. Dr. Muzaffar Hamzah*
	Technical Session *Track: Creative Computing* *Session Chair: Dr. Nur Faraha Mohd Naim*
	Technical Session *Track: Digital Healthcare & Medicine* *Session Chair: Dr. Adilius Manual*
11:45 – 12:00	*Wrap Up Ceremony by AMICT2026 Chairman* Assoc. Prof. Ts. Dr. Mohd Hanafi bin Ahmad Hijazi
12:00 – 2:30	**Lunch Break**
2:30 – 5:30	**Labuan Tour** *Note: This tour involves walking and is weather-dependent. The tour will only proceed if the weather conditions are favourable.*

KEYNOTE SPEAKERS

AI: Algorithm of Sovereignty and Civilisation



AI: Algorithm of Sovereignty and Civilisation examines artificial intelligence not merely as a technological tool, but as a new source of economic power, cultural influence and civilisational authority. In the emerging AI age, sovereignty will increasingly depend upon a nation's command of five strategic layers: energy, computing infrastructure, intelligent models, sovereign data and AI applications. A society that does not control these foundations risks becoming technologically dependent, intellectually subordinate and culturally shaped by the algorithms of others.

Yet computational power alone cannot create civilisation. Civilisation is ultimately built by human beings endowed with intellect, moral responsibility, creativity and purpose. AI may process vast quantities of data, predict patterns and act with growing autonomy, but it does not possess revelation, conscience, hikmah or the moral mandate of the human being as khalīfah (vicegerent) on earth. The central question is therefore not simply whether machines can think, but who determines their objectives, values and limits.

Grounded in the Tawhidic worldview, the keynote proposes Civilisational AI: an AI ecosystem designed to protect sovereignty, strengthen knowledge, uphold justice, preserve human dignity and advance the common good. It calls upon nations to move beyond being consumers of foreign technologies and become principled creators of AI. The future belongs not merely to those with the most powerful algorithms, but to those who can govern them with wisdom, purpose and a compelling vision of civilisation.

Professor Emeritus Dato' Ts. Dr.
Tengku Mohd Bin Tengku Sembok

KEYNOTE SPEAKERS

Beyond Reading the Science Map: Detecting the Dynamics of Cybersecurity Research



Cybersecurity research is evolving at an unprecedented pace, driven by rapid advances in artificial intelligence, machine learning, and emerging digital technologies. While science mapping has become a widely adopted approach for visualizing the intellectual structure of a research field, conventional thematic maps primarily offer static snapshots of scientific landscapes, providing limited insight into how research topics emerge, evolve, or decline over time.

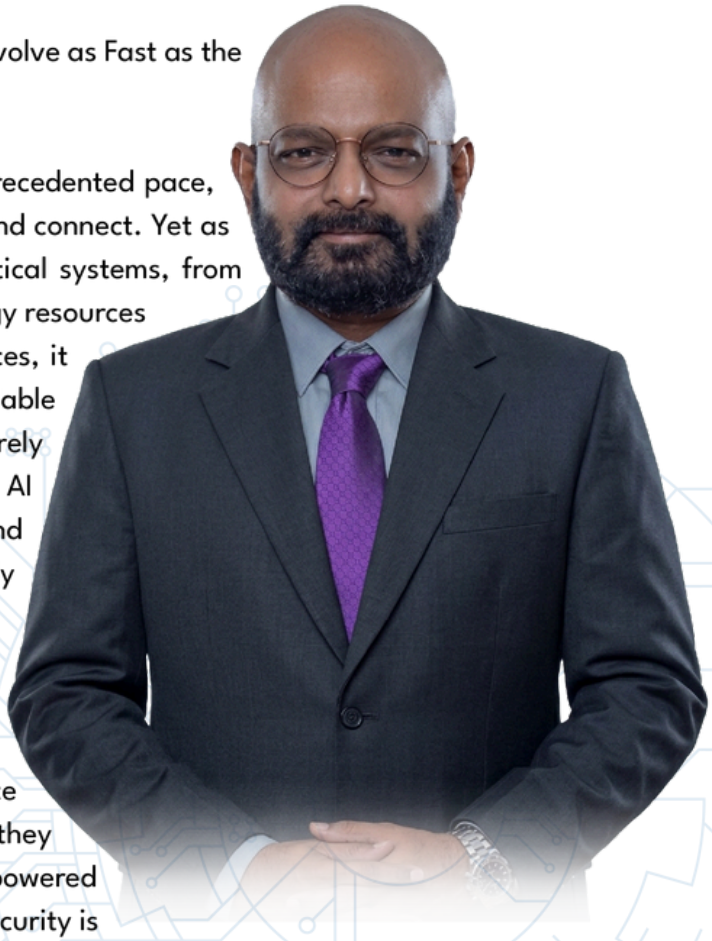
This keynote presents a data-driven framework for uncovering the dynamics underlying scientific development in cybersecurity. Leveraging large-scale bibliographic datasets and science mapping techniques, the proposed two-step analytical approach extends traditional thematic analysis by incorporating temporal signals that reveal patterns of thematic evolution, emerging research fronts, and shifting scientific priorities.

Rather than simply interpreting the current structure of a research field, this methodology enables researchers and decision-makers to identify where the field is heading. Drawing on recent evidence from cybersecurity and artificial intelligence literature, the keynote demonstrates how dynamic science mapping can support strategic research planning, technology forecasting, and evidence-based policy development. The session concludes with perspectives on how these approaches can strengthen research intelligence and facilitate informed decision-making in rapidly evolving scientific domains.

Professor Adian Fatchur Rochim

KEYNOTE SPEAKERS

Securing Intelligence: Why Cybersecurity Must Evolve as Fast as the AI It Protects



AI is reshaping the digital landscape at an unprecedented pace, transforming how we communicate, compute, and connect. Yet as machine intelligence becomes embedded in critical systems, from industrial control networks and distributed energy resources to smart city infrastructure and consumer devices, it simultaneously expands the attack surface available to adversaries. Threat actors are no longer merely exploiting vulnerabilities; they are weaponizing AI itself to automate attacks, evade detection, and target the integrity of the models we increasingly trust.

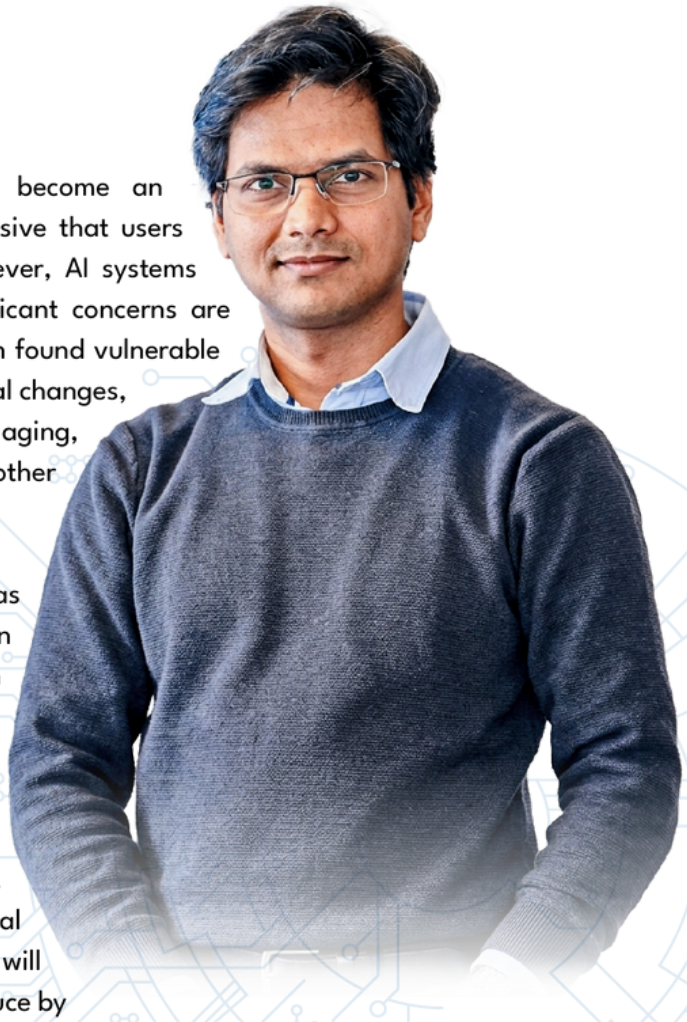
The evolving intersection of AI and cybersecurity demands that defensive frameworks, government policies, and workforce capabilities keep up with the technologies they protect. Emerging threats targeting AI-powered systems require a fundamental rethink of how security is designed, deployed, and governed across sectors.

Technical solutions alone are insufficient; sustainable cyber resilience requires coordinated coordinated action spanning regulation, education, and cross-border cooperation. A forward-looking perspective on building resilient digital ecosystems emphasizes the urgent need for deeper collaboration between researchers, industry, and policymakers to ensure that intelligent systems remain not only capable and efficient, but also trustworthy and secure for the societies that depend on them.

Prof. Dr. Selvakumar Manickam

KEYNOTE SPEAKERS

Safe and Sustainable Artificial Intelligence



Artificial Intelligence (AI) algorithms have become an inevitable part of our lives and are so pervasive that users often engage with them unconsciously. However, AI systems have advantages and drawbacks. The significant concerns are safety and sustainability. AI models have been found vulnerable to sophisticated malicious attacks, unintentional changes, omissions of context in training data, sensor aging, changes in the training environment, and other unforeseen circumstances.

This makes edge AI applications—such as smartphones and cars—susceptible to defects in training data and AI models. Our research in safeguarding AI focuses on protecting data integrity and the quality of learning associated with AI algorithms when they are exposed to cyberattacks in edge computing environments and in federated learning. Similarly, AI energy demand is outpacing global energy production. At the current rate, AI will consume more energy than the world can produce by 2050. AI energy demand has catastrophic environmental impacts.

The energy sustainability of AI has become a crucial challenge worldwide. While most AI energy consumption comes from training, with ~50 billion edge devices worldwide, AI inference energy efficiency will significantly support overall AI energy sustainability. Our research aims to make AI resources more efficient through quantisation, pruning, distillation, and sparse model training.

Assoc. Prof. Dr. Varun Ojha

ONSITE PRESENTATION 12TH NOVEMBER 2026

Track: Language Engineering, Visualization & Optimization

Session Chair: Dr. Jackel Vui Lung Chew

Room: Manikar Ballroom

Presentation Schedule

Time	Paper ID	Paper Title & Authors
9:00 – 9:15	138	Backend Structure Injection for Implementation Harness of Coding Agents ***Bhumjate Sudprasert,*** *Narongrit Waraporn, Sanit Sirisawatvatana and Olarn Rojanapornpun*
9:15 – 9:30	209	Cyberbullying and Hate Speech Detection Mechanism for Twitter Platform Using Natural Language Processing ***Nor Shahniza Kamal Bashah***
9:30 – 9:45	147	Optimization and Comparative Evaluation of EfficientNet-B2, Hybrid EfficientNet-B2–ViT, and T2T-ViT for Breast Cancer Molecular Subtype Classification from Mammographic Images ***Nursakinah Abdullah***
9:45 – 10:00	218	A Review of Caputo and Grünwald-Letnikov Fractional Metaheuristic Optimization ***Jackel Chew***
10:00 – 10:15	212	Dyslexia Identification Based on Handwritten Analysis using Fine-Tuned ResNet-50 Architecture as Educational Technology ***Sofianita Mutalib****, Fairuz Aqilah Mohd Basir, Siti Nur Kamaliah Kamarudin, Ariff Md Ab Malik, Aznan Mohd and Norjansalika Janom*

Track: Advance Machine Learning & Cybersecurity

Session Chair: Assoc. Prof. Dr. Chim Kim On

Room: Chimney Boardroom

Presentation Schedule

Time	Paper ID	Paper Title & Authors
9:00 – 9:15	20	An Ultra-Lightweight Edge-Aware Mamba Network for Efficient Brain Tumor Segmentation *Razan Alharith,* ***Ashraf Osman****, Chin Kim On, Mohammed A. Saleh, Khalifa Chekima and Rayner Alfred*
9:15 – 9:30	22	A Hybrid CNN-LSTM Deep Learning Model for Real-Time Driver Fatigue Monitoring Through Multi-Feature Temporal Analysis ***Tasmiah Faisal****, Rafidah Md Noor and Norazlina Khamis*
9:30 – 9:45	169	A Hybrid Intelligence-Based Machine Learning Algorithm for Medical Disease Diagnosis *Fitratun Najahah Binti Abdul Rahim, Ashraf Osman, and* ***Salmah Fattah***
9:45 – 10:00	61	LFWD: Detection of Fake Shopping Websites Using a Local LLM with RAG ***Masaki Yoshii****, Shintaro Kawamura, Nagisa Nakamura, Shingo Yasuda and Daisuke Inoue*
10:00 – 10:15	109	Information-Theoretic Image Forensics: Zero-Shot Security and Cross-Generator Artifact Detection via Vision-Language Embeddings ***Hadhrami Ab Ghani,*** *Zamani Md Sani, Nur Asyiqin Amir Hamzah and Mohd Hakimi Aiman Ibrahim*

10:15 – 10:30	115	Federated Learning for Multi-Class Attack Type Classification in SDN-IoT Networks: A Survey of Progress, Challenges, and Future Directions *Saw Chin Tan and* ***Abdullah Kamaruddin***

Track: Data Technologies & Decision Support System

Session Chair: Dr. Florence Sia

Room: Layangan Boardroom

Presentation Schedule

Time	Paper ID	Paper Title & Authors
9:00 – 9:15	111	Assessing Big Data Analytics Implementation Maturity Across ADiBA Framework Activities: A Multi-Case Study ***Norhayati Daut*** *, Naomie Salim, Sharin Hazlin Huspi and Norazlina Khamis*
9:15 – 9:30	120	Computational Modeling of Assisting and Opposing Radiative EMHD Flow of Cu-SiO2-Fe3O4 / Blood Based Ternary Hybrid Nanofluid through Stenosis Porous Artery ***Kainat Laghari***
9:30 – 9:45	194	Digital Twin Integrated Border Control: A Decision Support Framework *Vianny Tobing and* ***Muzaffar Hamzah***
9:45 – 10:00	191	The Development of a Web-Based Expense Tracking System Using Nielsen's Efficiency Attribute for the Case Study of Hendrixx Exclusive *Ilham Haiqal Khamis,* ***Norjansalika Janom****, Fauziah Ahmad, Nor Shahniza Kamal Bashah, Syaripah Ruzaini Syed Aris, Noraini Seman and Inda D Lestantri*

Track: User Experience

Session Chair: Dr. Dinna @ Nina Mohd Nizam

Room: Manikar Ballroom

Presentation Schedule

Time	Paper ID	Paper Title & Authors
3:00 – 3:15	25	Proposing a Kansei Engineering Synthesis Domain: A Preliminary Study of a Conceptual Model for Digital Learning Platform ***Nur Faraha Binti Mohd Naim****, Azee Marnitta, Zaidatol Haslinda Abdullah Sani and Carolyn Salimun*
3:15 – 3:30	113	Evaluation of Immersive Virtual Reality User Experience on Islamic Philanthropy Application ***Wan Nooraishya Wan Ahmad****, Dg. Senandong Ajor, Ahmad Rizal Ahmad Rodzuan, Ryan Macdonell Andrias, Mohd Amirul Amirsah, Nuraini Jamil, Nooralisa Mohd Tuah, Suaini Sura, and Abdul Manan Ahmad Hafid*
3:30 – 3:45	118	Skills Move, Memories Don't: A Pre-Post Evaluation of a National STI 100^3 Generative AI Literacy Module for Malaysian Secondary Students ***Soffri Yussof,*** *Ryan Macdonell Andrias, and Nooralisa Mohd Tuah*
3:45 – 4:00	7	Children's User Experience on a Sabahan Folklore Augmented Reality application through UEQ and Smiley-o-meter. ***Dinna @ Nina Mohd Nizam,*** *Zaidatol Haslinda Abdullah Sani, Kornchulee Sungkaew and Pornpon Thamrongrat*

Track: Creative Computing
Session Chair: Ms. Norhayati Daut

Room: Layangan Boardroom

Presentation Schedule

Time	Paper ID	Paper Title & Authors
3:00 – 3:15	13	Virtual Reality in Tourist Experience Research: A Bibliometric Analysis ***Emily H.T. Yapp,*** *Choi Meng Leong, Elisabet Dita Septiari and Ribed Viannece W. Jubilee*
3:15 – 3:30	188	TasteMate: A Content-Based Personalized Recipe Recommendation System for Efficient Meal Planning. ***Ainnur Hafizah Binti Anuar Mokhtar,*** *Nooralisa Mohd Tuah, Dinna N Mohd Nizam and Melanie Nicole S Makimainathan*
3:30 – 3:45	196	Designing Data Stories for Suicide Awareness: A Visualization Framework and Preliminary Evaluation ***Mohammad Fadhli Asli***
3:45 – 4:00	3	Reward Structure Model Of Players Engagement In Game-Based Learning Application ***Nooralisa Mohd Tuah****, Seri Suriani Ali Subroto, Carolyn Salimun, Suaini Sura*

2026 1st International Postgraduate Symposium on Computing & Informatics (IPoSCI2026)

Session Chair: Dr. Jackel Vui Lung Chew

Room: Chimney Boardroom

3:00 – 5:00pm

Presentation Schedule

Time	Paper ID	Paper Title & Authors
3:00	76	Variable-Order Caputo with Genetic Algorithm for Capacitated Ambulance Routing Problem ***Marissa Marcella Daulip Lakkui***
3:05	202	Skill-Aware Adaptive Adversarial Search for Turn-Based Game AI: Prototype Development and Pilot Evaluation ***Seri Suriani Binti Ali Subroto***
3:10	134	LLM Multi-Criteria Decision Analysis Framework for Basic Amenity Prioritization in Sabah ***Kee Nurul Syahadah Binti Kee Dzulkifly***
3:15	145	Survey of Robust Visual Feature Extraction for Fish Feeding State Recognition in Noisy Aquaculture Videos ***Emmanuel Stewart Tindik***
3:20	187	The Evolution of Preprocessing in AutoML: From Static Pipelines to Feature Level Intelligence (A Review) ***Nurul Raihana Binti Rahman***
3.25		A Graduated Safety-State-Gated Architecture for AI Decision Support in Low-Resource Coastal Fisheries ***Mohd Iskandar bin Samsuddin***

3.30		Context-Aware AI Image Description for Blind Learners in E-Learning ***Nur Laila Japar***
3.35		Modeling Socially Adaptive NPC Behavior: An Affinityscore-Driven Finite State Machine Framework ***Evyla Linus***
3.40		Electrophysiological Biosignals for Plant Stress Detection in Precision Agriculture: A Mini Review ***Siti Hajar binti Datu Ali Nafiah***
3.45		Business Intelligence Frameworks in the Tourism Sector ***M. Risal Paduri***
3.50		A Preliminary Conceptual Trust Framework for Visualization: A Comparative Analysis ***Aefeny Johnny***
3.55		An Interpretable Multi-Source Sentiment Framework Using Deep Learning for Stock Movement Prediction ***Gerthrude Abigail Fredzely***
4.00		Optimizing Pit Stop Strategy in Formula 1 Using Dynamic Programming and AI-Based Predictive Model ***Nur Irdina Binti Muhamad Taufek***
4.05		A Systematic Review on Neurodivergent Student's Challenges and Use of Assistive Technologies in Higher Education ***Muhammad Mu'izzuddin Mohd Yusri***
4.10		Mathquest Kingdom Rescue: A Hybrid Gamified Board Game System for Primary Mathematics Learning ***Mas Nazira Damsah***

4.15		A Sector-Benchmarked Machine Learning Decision-Support Framework for Explainable ESG Priority Recommendation for Malaysian MSMEs ***Kristie Chiang Shen Shuet***
4.20		Towards Continuous Hijaiyah Fingerspelling Recognition: A Real-Time Mobile Conformer–CTC Architecture for Inclusive Qur'anic Education ***Mohamed Elgilani Eltahir Elshareif***
4.25		Water Quality Analysis Using Machine Learning for Decision Support System in The Integrated Water Resources Framework ***Firdaus***

ONLINE PRESENTATION 13TH NOVEMBER 2026

Track: Data Technologies & Applications

Session Chair: Dr. Tan Soo Fun

Presentation Schedule

Time	Paper ID	Paper Title & Authors
10:30 – 10:45	24	A Comparative Analysis of Apriori, ECLAT, and FP-Growth in Social Media User-Generated Content ***Daimler Benz Alebaba***, *Suaini Sura, Henri Tantyoko, Sandy Kurniawan, Jetol Bolongkikit and Suriana Ismail*
10:45 – 11:00	89	EcoWatt – Smart Dashboard for Turning Water Into Energy for Vechiles *Abdulrahman Mohamed, Mohamed Al Ali, Mohammed Al Jaberi, Humaid Al Hammadi, Samar Mouti, Nahla Mohammed Elzein,* ***Mosab Abakar Targio,*** *Chin Kim On, Ashraf Osman Ibrahim*
9:45 – 10:00	219	A Multi-Tenant IoT Data Platform for Stage-Based Nutrient Control in Hydroponics: A Six-Week Deployment on a Commercial Rock Melon Farm ***Muhammad Nur Aiman Bin Uda,*** *Muhammad Nur Afnan Bin Uda, Uda Hashim, Saroja Rijal, Ervin Moung, Zainal Abidin Arsat, Mohd Khairul Rabani Bin Hashim, Ahmad Ashraf Abdul Halim and Yuri Pamungkas*

Track: Advance Machine Learning I

Session Chair: Assoc. Prof. Dr. Leau Yu Beng

Presentation Schedule

Time	Paper ID	Paper Title & Authors
10:30 – 10:45	141	Cross Attention Enhanced Multimodal Sleep Stage Classification using SleepKAN ***Nazeema A***
10:45 – 11:00	94	Improving Heterogeneous Remote Sensing Change Detection through Multistage Feature Refinement ***Jiajing Cai,*** *Yu-Beng Leau and Jinmei Shi*
11:00 – 11:15	112	An Explainable Adaptive Machine Learning Framework for Real-Time and Scalable Intrusion Detection in Cloud Computing *Areesha Magsi and* ***Dilbar Hussain***
11:15 – 11:30	119	Dynamic Scaffold Fields for Adaptive Multi-Agent Coordination ***Paul David Markov***
11:30 – 11:45	80	A Noise-Aware, Attention-Guided Deep Learning Framework for Robust Skin Cancer Detection and Classification *Gohar Rahman,* ***Mehmood Ahmed*** *and Muhammad Iqbal*

Track: Advance Machine Learning II

Session Chair: Dr. Mohammed Ahmed

Presentation Schedule

Time	Paper ID	Paper Title & Authors
10:30 – 10:45	26	PrenatalSentinel: A Privacy-Preserving Federated Learning Framework for Autism Risk Prediction from Multimodal Prenatal Purchase Signals ***Kapil Kumar Reddy Poreddy,*** *Ajit Sahu and Sanjoy Mukherjee*
10:45 – 11:00	41	Edge-Native Digital Twin Synchronization in Metaverse: Architecture, Performance, Governance ***Zarif Bin Akhtar***
11:00 – 11:15	2	A Low-Cost IoT Web Platform for Real-Time Chili Farm Monitoring and Automation ***Mohammed Ahmed,*** *Nuruldiana Binti Zaidi, Ashraf Ibrahim, Khalifa Chekima, Amanzholova Saule, Damelya M. Yeskendirova and Bakeel Hussein*
11:15 – 11:30	68	StudyNest: An AI-Powered Academic Collaboration and Study Partner Matching Platform ***Rashid Abdullah Al Ghafri***
11:30 – 11:35	5	Development of an Intelligent Classification Application for Chronic Lower Back Pain Prediction Using Machine Learning *Syifak Izhar Hisham and* ***Sumayyah Md Rizal***

Track: Advance Machine Learning III

Session Chair: Assoc. Prof. Dr. Chin Kim On

Presentation Schedule

Time	Paper ID	Paper Title & Authors
10:30 – 10:45	55	Benchmarking Lightweight YOLO Architectures: UAV-Based Oil Palm Tree Detection and Condition Classification ***Gan Jun Ming*** *and Kim On Chin*
10:45 – 11:00	185	Candidate Label Order Sensitivity and Agreement-Based Error Detection in Zero-Shot Intent Classification ***Shan Yang*** *and Mengke Qu*
11:00 – 11:15	193	Reducing Hallucinations in Small Fine-Tuned LLMs via a Code-Assisted Generate-Verify-Execute Pipeline for Mathematical Reasoning ***Nithma Fernando*** *and Kavishka Rajapaksha*
11:15 – 11:30	217	A Lightweight Multi-Task Network for Joint Segmentation and Classification of Breast Lesions in Ultrasound Images ***Marcelinus Jonathan Salim,*** *Muhammad Nur Afnan Bin Uda, Uda Hashim, Saroja Rijal, Ervin Moung, Muhammad Nur Aiman Bin Uda and Yuri Pamungkas*

Track: Cybersecurity I

Session Chair: Dr. Gohar Rahman

Presentation Schedule

Time	Paper ID	Paper Title & Authors
10:30 – 10:45	9	A Comparative Study of Traditional and AI-Driven Penetration Testing and a Layered Hybrid Model ***Gohar Rahman***
10:45 – 11:00	8	Behavioral Evaluation of three-stage QKD under noisy and noise-free environment with Eve intervention in Qiskit *Md Rayhan Uddin and* ***Nur Ziadah binti Harun***
11:00 – 11:15	14	A Digital Twin-Enabled Cybersecurity Framework for Resilient 6G Network Infrastructure ***Venkata Rama Uday Kiran Bokam*** *and Kameswaran Arunachalam*
11:15 – 11:30	103	HGTAN: A Hybrid Graph and Temporal Attention Network for Context-Aware Insider Threat Detection in Enterprise Log Streams *Fatima Khalil,* ***Taimoor Qaisar,*** *Kainaat Khalid, Hamda Raza and Taiba Sajjad*
11:30 – 11:45	136	A Federated Structural Causal Model for Automated STRIDE Threat Modeling from Multi-Source Security Intelligence ***Sarin Kumar Thayyilsubramanian*** *and Rajkumar Srinivasan*

Track: Cybersecurity II

Session Chair: Ms. Nordaliela Mohd Rusli

Presentation Schedule

Time	Paper ID	Paper Title & Authors
10:30 – 10:45	146	Cybersecurity Maturity Model for Small Island Nations *Saw Chin Tan and* ***Hassaan Mohamed Mohamed***
10:45 – 11:00	186	A Privacy-Preserving Biometric Authentication Framework for Digital Banking Using Deep Learning and Cryptography ***Tharuka Anjana*** *and Kavishka Rajapaksha*
11:00 – 11:15	197	Silent Classical Fallbacks in a Post-Quantum Blockchain Migration: Detection and Enforcement in Hyperledger Fabric ***Zara Laila Cheong****, Ali Tufail and Rosyzie Anna Apong*
11:15 – 11:30	224	Session Completion Monitoring For Flooding Detection During Legitimate Voter Surges In Simulated Cloud Voting ***Mohammed Wael Mohammed Mohammed***

Track: Decision Support System

Session Chair: Dr. Norazlina binti Khamis

Presentation Schedule

Time	Paper ID	Paper Title & Authors
10:30 – 10:45	21	Machine Learning-Based Twitter Bot Detection Using Hybrid Metadata and Text Features *Maged Nasser, Muhammad Azri Bin Juhaidi, Ashraf Osman, Seyed Hamid Talebian,* ***Vijayakanthan Ganesalingam*** *and Rayner Alfred*
10:45 – 11:00	92	Integrated AI System for Real-Time Vehicle Detection and Smart Parking Management *Hamza Alhamedi, Mariam Alsaeedi, Maitha Mohammed Ali Alyafeai,* ***Nuora Mohammad Ali,*** *Nahla Mohammed Elzein and Ashraf Osman*
11:00 – 11:15	200	Strategic Prioritization and Operational Assessment of Government Hospitals in the Gaza Strip Using Multi-Criteria Decision Analysis and GIS-Based Visualization ***Khalid Yahya Ahmed Aboumyghiseeb*** *and Aya Mazen Hassouna*
11:15 – 11:30	221	A Smartphone-Based Decision-Support System for Harumanis Mango Growers Using YOLOv8 Detection and Hand-Referenced Fruit Sizing ***Zainal Abidin bin Arsat,*** *Muhammad Nur Afnan Bin Uda, Uda Hashim, Saroja Rijal, Ervin Moung, Muhammad Nur Aiman Bin Uda, Mohd Khairul Rabani Bin Hashim, Ahmad Ashraf Abdul Halim and Yuri Pamungkas*

Track: Optimization and Visual Analytics
Session Chair: Assoc. Prof. Dr. Muzaffar Hamzah

Presentation Schedule

Time	Paper ID	Paper Title & Authors
10:30 – 10:45	100	Content-Conditioned Cyclic Seam Carving for Equirectangular Panoramas *Talal Ahmad, Husnain Abid and* ***Ghulam Arbi***
10:45 – 11:00	84	Intelligent Indoor Navigation Of Mobile Robots Using Optimal Path Planning Algorithms *Madhu Sudan M P, Sudarshan Patil Kulkarni and* ***Raghunandana Mulgund***
11:00 – 11:15	116	SpecFormer: A Hierarchical Vision Transformer for Generalizable Compressed-Domain Object Detection ***Naga Sirisha Rayala*** *and Veeranjaneyulu Naralasetti*

Track: Creative Computing

Session Chair: Dr. Nur Faraha Bte Hj Mohd Naim

Presentation Schedule

Time	Paper ID	Paper Title & Authors
10:30 – 10:45	39	Multimodal AI Mnemonics For Learning Language And Lists In A Malaysian Context ***James Mountstephens***
10:45 – 11:00	189	Integrating Physics-Informed and Convolutional Neural Networks for Thermal and Phase-Change Prediction in SWCNT-PCM Battery Thermal Management System ***Md Imam Mehedi,*** *Kalpani Rasangika Ambagaha Hewage Dona, Md Tahmid Ashraf Chowdhury, Mohammad Ahsanul Islam, Yit Jing Ee, Chin Kim On, Mohammad Hafiz Mohd Yusof and Ashraf Osman Ibrahim*

Track: Digital Healthcare & Medicine

Session Chair: Dr. Adilius Manual

Presentation Schedule

Time	Paper ID	Paper Title & Authors
10:30 – 10:45	149	Advisory AI for Household Medicine Redistribution: Shortcut Control, Abstention, and Distribution Shift ***Supuni Chethana*** *and Yasanthika Mathotaarachchi*
10:45 – 11:00	223	Self-Supervised TabNet for Medical Cost Prediction with Limited Labelled Data of Diabetes Patients ***Nur Ifwah Ariffin***
11:00 – 11:15	95	HemaFormer: Report-Supervised Multi-Task Learning for Anemia and RBC Morphology on AneRBC *Talal Ahmad, Husnain Abid and* ***Ghulam Arbi***
11:15 – 11:30	75	Leakage, Shortcuts, and Shift: An Evaluation-Integrity Audit of Smartphone-Based Anemia Screening *Talal Ahmad, Husnain Abid and* ***Ghulam Arbi***

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