

**3rd INTERNATIONAL CONFERENCE ON ADVANCES IN
MACHINE INTELLIGENCE AND CYBERSECURITY
TECHNOLOGIES 2026 (AMICT2026)**

**PALM BEACH RESORT & SPA
F.T. LABUAN, MALAYSIA
12th – 13th NOVEMBER 2026**

CONFERENCE PROGRAMME

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

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

	Technical Session <i>Track: Advance Machine Learning III</i> <i>Session Chair: Assoc. Prof. Ts. Dr. Chin Kim On</i>
	Technical Session <i>Track: Cybersecurity I</i> <i>Session Chair: Dr. Gohar Rahman</i>
	Technical Session <i>Track: Cybersecurity II</i> <i>Session Chair: Ms Nordaliela Mohd Rusli</i>
	Technical Session <i>Track: Decision Support System</i> <i>Session Chair: Dr. Norazlina binti Khamis</i>
	Technical Session <i>Track: Optimization and Visual Analytics</i> <i>Session Chair: Assoc. Prof. Dr. Muzaaffar Hamzah</i>
	Technical Session <i>Track: Creative Computing</i> <i>Session Chair: Dr. Nur Faraha Mohd Naim</i>
	Technical Session <i>Track: Digital Healthcare & Medicine</i> <i>Session Chair: Dr. Adilius Manual</i>
11:45 – 12:00	<i>Wrap Up Ceremony by AMICT2026 Chairman</i> <i>Assoc. Prof. Ts. Dr. Mohd Hanafi bin Ahmad Hijazi</i>
12:00 – 2:30	Lunch Break
2:30 – 5:30	Labuan Tour <i>Note: This tour involves walking and is weather-dependent. The tour will only proceed if the weather conditions are favourable.</i>

Method:

Google Meet

Track: Data Technologies & Applications

Session Chair: Dr. Tan Soo Fun

Presentation Schedule

Time	Paper ID	Paper Title & Authors
10:30 – 10:45	24	Comparative Analysis of Apriori and FP-Growth in Social Media User Engagement Association Rule Mining: Computational Stress and Model Reliability <i>Daimler Benz Alebaba, Suaini Sura, Henri Tantyoko, Sandy Kurniawan, Jetol Bolongkikit and Suriana Ismail</i>
10:45 – 11:00	89	EcoWatt – Smart Dashboard for Turning Water Into Energy for Vechiles <i>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</i>
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 <i>Muhammad Nur Aiman Bin Uda, Muhammad Nur Afnan Bin Uda, Uda Hashim, Saroja Rijal, Ervin Moun, Zainal Abidin Arsat, Mohd Khairul Rabani Bin Hashim, Ahmad Ashraf Abdul Halim and Yuri Pamungkas</i>

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

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

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 <i>Gan Jun Ming and Kim On Chin</i>
10:45 – 11:00	185	Candidate Label Order Sensitivity and Agreement-Based Error Detection in Zero-Shot Intent Classification <i>Shan Yang and Mengke Qu</i>
11:00 – 11:15	193	Reducing Hallucinations in Small Fine-Tuned LLMs via a Code-Assisted Generate-Verify-Execute Pipeline for Mathematical Reasoning <i>Nithma Fernando</i>
11:15 – 11:30	217	A Lightweight Multi-Task Network for Joint Segmentation and Classification of Breast Lesions in Ultrasound Images <i>Marcelinus Jonathan Salim, Muhammad Nur Afnan Bin Uda, Uda Hashim, Saroja Rijal, Ervin MOUNG, Muhammad Nur Aiman Bin Uda and Yuri Pamungkas</i>

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

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

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

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

Presentation Schedule

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

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 <i>James Mountstephens</i>
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 <i>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</i>

Track: Digital Healthcare & Medicine

Session Chair: tbc

Presentation Schedule

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