

TENTATIVE PROGRAM
The Fifth International Conference on Intelligence of Things
(ICIT 2026)
Sejong University, Seoul, Republic of Korea
October 15-16, 2026

DAY 1	Thursday, October 15, 2026	
08:30-09:30	Registration, Location: B1 Hall, Gwanggaeto Building	
09:30-09:45	Welcome Speech Prof. Tran Xuan Truong, President of Hanoi University of Mining Geology	
9:45-10:30	Chair: Prof. Le Hong Anh	
	KEYNOTE 1: From Edge Intelligence to Agentic AI for the Intelligence of Things Prof. Rung-Ching Chen, Chaoyang University of Technology, Taiwan	
10:30-10:45	Tea break	
10:45-11:30	KEYNOTE 2: Resilient UAVs in the AI of Things: From Fault-Tolerant Flight Control to Vision-Based Post-Typhoon Damage Assessment Prof. Nguyen Xuan Mung, Sejong University, Republic of Korea	
Lunch		
13:00 - 14:40	Room: Conference Room B101	Room: Conference Room B102
	Chair:	Chair:
	Application of Ensemble Machine Learning Algorithms for Building Rainfall Forecasting Models Lam Van Ho (Quy Nhon University, Vietnam); Minh Thanh Hoang (Gia Lai Provincial Hydrometeorological Station, Vietnam); Le Xuan Vinh (Quy Nhon University, Vietnam)	Volatility-Aware Intelligent Modelling for Stock Closing Price Forecasting Minh Tu Nguyen (University of Languages and International Studies, Vietnam); Thi Ly Tran (Hanoi University of Science and Technology, Vietnam); Bac Dao (Hanoi School of Business and Management)
	Knowledge Representation for IoT Cyber Attack Provenance: Contract-First Ontology with Log-to-Knowledge-Graph Replay Thai Truong Son (National Defense Academy of Japan, Japan); Hiroshi Sato and Masao Kubo (National Defense Academy, Japan); Nguyen Huy Liem (Le Quy Don University, Vietnam)	Feature Space Bias in AIoT Networks: Federated Rice Disease Diagnostics for Smart Agriculture and Water Management Chayanon Sub-r-pa, Alok Kumar Sharma and Rung-Ching Chen (Chaoyang University of Technology, Taiwan)
	Adaptive Sliding Mode Control for Fault-Tolerant Attitude Stabilization of Reaction-Wheel-Based Small Satellites Gyeong Min Kim, Nguyen Xuan Mung, Jun Yong Lee and Sung Kyung Hong (Sejong University, Korea (South))	Secure and Scalable AI-Driven Edge Intelligence for Privacy-Preserving Intrusion Detection in IoT Systems Danai Chasaki (Villanova University, USA)
	Three-Rank Calibrated Entropy-Weighted Clustering for Active Learning with Vision-Language Models Duc Tai Phan (FPT University, Vietnam); Lam Phuong Nguyen (Ton Duc Thang University, Vietnam); Nam Van Hai Phan (AiTA Lab, FPT University, Vietnam & FPT, Vietnam); Tri Nguyen Thai (FPT University, Vietnam); Duc Ngoc Minh Dang (FPT University, Ho Chi Minh, Vietnam)	Secrecy Performance of Sidelobe-Controlled UPA Beamforming for UAV Communications Under Ground Eavesdropper Location Uncertainty Hanh Dang-Ngoc (Ho Chi Minh City University of Technology, Vietnam & University of Technology Sydney, Australia); Duc Ngoc Minh Dang (FPT University, Ho Chi Minh, Vietnam); My Le My Dang (Ho Chi Minh City University of Technology, Vietnam)
14:40-15:00		Efficient LiDAR Data Structuring for Robust UAV Navigation in GPS-Denied Environments Nguyen Thi Huu Phuong and Hong Anh Le (Hanoi University of Mining and Geology, Vietnam); Dung Nguyen (Hanoi University of Mining Geology, Vietnam); The-Loc Nguyen (Hanoi University of Mining and Geology, Vietnam)
	Tea break	
	Room: Conference Room B101	Room: Online meeting via Zoom
	Chair:	Chair:
	Design and Analysis of Low-Power Vibration Sensor for Side-Channel Monitoring of Natural Gas Consumption in Residential Distribution Networks Maciej Huk (Wrocław University of Science and Technology, Poland); Yongjun Piao (Nankai University, Tianjin, China); Keun Ho Ryu (Ton Duc Thang University, Ho Chi Minh City, Vietnam)	Towards a Unified Quantitative Framework for Evaluating Class Activation Maps Minh-Hien Hua-Nguyen and Thanh-An Nguyen (Faculty of Information Technology, Ton Duc Thang University, Ho Chi Minh City, Vietnam)

15:00-16:40	FloorplanCVAE: An Interactive Workflow for Constraint-Aware Floor Plan Layout Editing Using a Conditional Variational Autoencoder Pham Vu Hong Son (Ho Chi Minh City University of Technology & Vietnam National University, Ho Chi Minh City, Vietnam); Thi Bich Huyen Vo (Ho Chi Minh City University of Technology, Vietnam & Vietnam National University, Ho Chi Minh City, Vietnam); Nghia Hoai Nguyen (International University, Vietnam & Vietnam National University, Ho Chi Minh City, Vietnam)	Multi-Agent Generative AI Architectures for Zero-Day Attack Detection and Autonomous Cyber Defense: A Comparative Review Maciej Kisielewicz and Ngoc Thanh Nguyen (Wroclaw University of Science and Technology, Poland)
	Low-Complexity Quantized Phase Optimization for Secure UAV-RIS Communications Cong-Hoang Diem (Vietnam National University, Hanoi (VNU), Vietnam); Hong Anh Le (Hanoi University of Mining and Geology, Vietnam)	Graph-Based Analysis of Socially Prominent Individuals Using Image-Derived Relationships Khoi Nguyen-Thai, Nguyen Ha-Trong and Thanh-An Nguyen (Faculty of Information Technology, Ton Duc Thang University, Ho Chi Minh City, Vietnam)
	Fine-Tuning RF-DETR for Pavement Crack Detection: A Comparison with YOLO Architectures Pham Vu Hong Son (Ho Chi Minh City University of Technology & Vietnam National University Ho Chi Minh City, Vietnam); Lê Văn Trọng (Ho Chi Minh City University of Technology, Vietnam & Vietnam National University Ho Chi Minh City, Vietnam); Luu Ngoc Quynh Khoi (Ho Chi Minh City University of Technology & Vietnam National University Ho Chi Minh City, Vietnam); Minh Anh Le (Vinschool, Vietnam)	Electro-Thermal State-Space Dynamic Modeling and Comparative Temperature Control for IoT Duck Egg Incubation Edward B Panganiban (Isabela State University - Main Campus, Philippines & Mapua University, Philippines); Edmar Tobie G. Mortera, Reniel Albert D. Leron, Mariane Molina and Vanesa F Manebo (Mapua University, Philippines)
		Anatomy-Preserving Counterfactual Chest X-Rays via Causally-Motivated Disentanglement Quoc-Bao Tran, Trung-Kien Huynh and Thanh-An Nguyen (Faculty of Information Technology, Ton Duc Thang University, Ho Chi Minh City, Vietnam)
DAY 2 Friday, October 16, 2026		
08:30-09:30	Registration, Location: B1 Hall, Gwanggaeto Building	
9:30 - 10:50	Room: Conference Room B103	Room: Online meeting via Zoom
	Chair:	Chair:
	An Approach to Coverage Reallocation for Cooperative UAV-Based Construction Site Inspection Si Van-Tien Tran (Catholic Kwandong University, Korea (South)); Sergio I. Reyes (Tongji University, China); Hai Chien Pham (Ton Duc Thang University, Ho Chi Minh City, Viet Nam, Vietnam); Nghia Hoai Nguyen (International University, Vietnam & Vietnam National University, Ho Chi Minh City, Vietnam); Ung-Kyun Lee (Catholic Kwandong University, South Korea, Korea (South))	Tiny Deep Packet: A Knowledge Distillation Approach for Edge-Friendly Intrusion Detection Quan Tran Minh (Mikademy Ltd, Vietnam); Huy Thanh Tran (Hoa Sen University, Vietnam & Mikademy Ltd, Vietnam); Hoang Nam Nguyen (Ton Duc Thang University, Vietnam & Mikademy, Vietnam)
	Graph Contrastive Learning for Sparse User-Book Interaction in Recommendation Services Luong Vuong Nguyen (FPT University, Vietnam)	KalmanNet for Battery Thermal Forecasting in Intelligent Energy Management Systems Ba Hung Ngo (Thanh Dong University, Vietnam)
	A Hybrid Large Language Model and Quantitative Scheduling Framework for Risk-Aware Schedule Adjustment in Construction Projects Nghia Hoai Nguyen (International University, Vietnam & Vietnam National University, Ho Chi Minh City, Vietnam); Si Van-Tien Tran (Catholic Kwandong University, Korea (South)); Tran Khanh Nhan (National Yang Ming Chiao Tung University, Taiwan)	Cross-Project Prediction of Test Refactoring Opportunities Using Supervised Machine Learning Vo Van Luong and Binh Thanh Nguyen (Vietnam-Korea University of Information and Communication Technology, Vietnam); Nguyen Nang Hung Van (Danang University of Science and Technology, Vietnam); Nam Van Hoang (Dong A University, Vietnam)
10:50-11:00	A UAV-Enabled Framework for Early Rip-Current Warning Using Lightweight Patch-Based Inference and Temporally Stabilized Risk Estimation Hanh Dang-Ngoc (Ho Chi Minh City University of Technology, Vietnam & University of Technology Sydney, Australia); Nhut Minh Nguyen (FPT University, Vietnam); Duc Ngoc Minh Dang (FPT University, Ho Chi Minh, Vietnam)	A Hybrid MLP-CNN Architecture with KAN-Based Classification for Test Smell Prediction Khoa Ngoc Huynh, Huynh Ngoc Linh, Dinh Thi My Canh and Pham Tran Thien (Quy Nhon University, Vietnam)
Tea break		
	Room: Conference Room B103	Room: Online meeting via Zoom
	Chair:	Chair:
	Modulation Selection for Semantic Token Transmission over 3GPP TDL Channels Trong-Minh Hoang (Posts and Telecommunications Institute of Technology, Vietnam); Tuan Anh Nguyen (Sejong University, Korea (South)); Thu Anh Pham, Linh Ha Pham and Long Thanh Tran (Posts and Telecommunications Institute of Technology, Vietnam)	Lightweight Deep Learning Models for Real-Time Durian Disease Classification Nga Hong Cao, Lam Le Huan and Phuc Pham Tien (FPT University, Vietnam); An Dang (Phenikaa University, Vietnam); Jia-Ching Wang (National Central University, Taiwan)

11:00-12:20	ML-Driven Context Enrichment in a Distributed AI Workflow: Evaluating Resource-Constrained LLM Inference for Logistics Applications Szymon Dresler and Cezary Orłowski (WSB Merito University Gdansk, Poland)	Automatic Retrieval of Author's Publications Using Fuzzy Matching and Machine Learning Ta Viet Duc and Nguyen Trong Kuong (Vietnam National University of Agriculture, Vietnam)
	AI-Enabled IoT Platform for Real-Time Plant Health Monitoring in Smart Lettuce Garden Tran Thi Minh Khoa, Y Minh Nguyen, Huu-Dung Ngo and Phuc Dang Thi (Industrial University of Ho Chi Minh City, Vietnam)	Detection, Degeneracy, and Deployment: Stress-Testing a Lightweight SAE-LOF Pipeline for IoT Intrusion Detection Xuan Ha Nguyen, Quoc Trong Hoang and Hoang-Hai Tran (School of ICT, HUST, Vietnam)
	An End-to-End Hardware-Software Co-Design for License Plate Detection via Gemmini Accelerator Bui Thai An (Ho Chi Minh City University of Technology, Vietnam); Huynh Phuc Nghi (University of Electro-Communications, Japan); Trong-Thuc Hoang (The University of Electro-Communications, Japan); Tran Ngoc Thinh (Ho Chi Minh City University of Technology, Vietnam)	ViSafeHome-NLU: A Lightweight Risk-Aware Pipeline for Vietnamese Smart-Home Command Understanding Nguyen Phuong Anh (Banking Academy of Vietnam, Vietnam); Pham Quang Dung (Vietnam National University of Agriculture, Vietnam); Duy Hoang Pham (Hanoi University of Science and Technology, Vietnam)
Lunch		
13:30-15:10	Room: Online meeting via Zoom	Room: Online meeting via Zoom
	Chair:	Chair:
	DPELR: Differentially Private Extreme Learning Machine with Regularization Trieu Phong Le (NICT, Japan); Thi Phuong Tran (National Institute of Information and Communications Technology (NICT), Japan)	Towards Reliable AI for Smart Agriculture: A Comparative Robustness Study of CNNs and Vision Transformers Phi-Hung Hoang and Thi-Thu-Hong Phan (FPT University, Vietnam)
	Quantum-Enhanced Transfer Learning for Multispectral Sentinel-2 Land Use and Land Cover Classification: A Feasibility and Generalization Study Cao Vu Bui and Luong Vuong Nguyen (FPT University, Vietnam)	Systematic Evaluation of Handcrafted Audio Features for Fish Feeding Intensity Assessment Thuan Nam Trinh, Phi-Hung Hoang, Manh Van Tran and Thi-Thu-Hong Phan (FPT University, Vietnam)
	Applying Deep Reinforcement Learning for Stock Trading Vu Thanh Van (Vietnam National University Hanoi, Vietnam); Nguyen Doan Dong (International School, Vietnam National University, Hanoi, Vietnam); Tran Duc Quynh (International School, Vietnam National University, Ha Noi, Vietnam); Thuan Nguyen Quang (Vietnam National University, Ha Noi, Vietnam); Dang Tran Anh Thu (Vietnam National University Hanoi, Vietnam); Khanh Van Doan (The University of Danang, Vietnam); Do Thi Nham (Vietnam National University of Agriculture, Vietnam)	A Knowledge-Weighted Intuitionistic Fuzzy MCDM Model for Stock Ranking and Selection Pham Quang Dung (Vietnam National University of Agriculture, Vietnam); Thao Xuan Nguyen (Banking Academy of Vietnam, Vietnam & Division of Mathematics, Vietnam); Truong Thi Thuy Duong (Banking Academy of VietNam, Vietnam); Nguyen Phuong Anh (Banking Academy of Vietnam, Vietnam)
	Named Entity Recognition for Vietnamese Social Media Texts in the Education Domain Linh Thuy Ngo (Banking Academy of Viet Nam, Vietnam); Nguyen Doan Dong and Oanh Tran (International School, Vietnam National University, Hanoi, Vietnam)	Seeing and Explaining Diabetic Retinopathy: An Explainable Vision-Language Model (VLM) for Fundus-Based Detection and Grading in Resource-Constrained Settings Kien Trung Bui, Luong Huu Nguyen, Duc Ly Le, Loc Tan Cao, Hung Thanh Phan, Duong Hoai Anh Doan and Tu Vo Hoang (FPT University, Vietnam)
	An Integrated GeoAI Platform for Sustainable Tourism and Forest-Change Monitoring: Coupling Random Forest Classification, LSTM Forecasting, and a Multi-Route Conversational WebGIS Dung Nguyen (Hanoi University of Mining Geology, Vietnam); Hoa Thi Tran, Ngoc Bao Dinh and Oanh Nong Thi (Hanoi University of Mining and Geology, Vietnam)	A Lightweight Architectural-Aware Attention Mechanism for AIoT-Enabled 3D Building Reconstruction from Point Clouds Tran Truong Giang and Hong Anh Le (Hanoi University of Mining and Geology, Vietnam); Ha Nam Nguyen (Vietnam National University, Hanoi, Vietnam); Dung Nguyen (Hanoi University of Mining Geology, Vietnam)
18:00 - 20:00	Gala dinner	