

# IAAA25 CONFERENCE AGENDA

DAY 1 (July 16th, 2025)

7:30 - 12:00	Central Hall		
7:30 - 8:30	Registration		
8:30 - 9:10	Opening Ceremony		
9:10 - 9:20	Technical Report		
9:20 - 10:05	Keynote Speaker 1: Prof. Trung Q. Duong		
10:05 - 10:20	Tea break		
10:20 - 11:05	Keynote Speaker 2: Prof. My T. Thai		
11:05 - 11:50	Keynote Speaker 3: Prof. Xuan Nam Tran		
LUNCH TIME			
13:30 - 17:00	Center for Excellent Research and Innovation		
	Room 1 (303)	Room 2 (304)	Room 3 (305)
	Track: Intelligent Aerial Access and Applications	Track: Aerial Communication and Networking	Track: Aerial Hardware and Measurement
13:30 - 15:10	Chair: Dr. Huy Nguyen Duy Presenter: Luong Vuong Nguyen Title: Navigation of Micro-UAVs in Dynamic Environments: Challenges, Current Solutions, and Future Directions	Chair: Dr. Hoc Nguyen Thai Presenter: Thwe Thwe Win Title: A Survey on Energy-Aware Semantic Communication in LEO Satellites for 6G	Chair: Assoc. Prof. Dr. Hung Trinh Le Presenter: Tran Ngoc Thinh Title: Efficient Edge Deep Learning Framework for Aerial IoT Applications
	Presenter: Quang Anh N. D. Title: A Hierarchical Framework for Real-time Multi-person Pose Estimation	Presenter: Dang Huy Mac Title: DRL for Aerial Access in Edge Intelligence Systems: A Survey	Presenter: Cuong Pham Quoc Title: Edge AI: A Comprehensive Survey on Applications, Challenges, and Future Directions
	Presenter: Luong Vuong Nguyen Title: UAV Path Optimization Using LightGNN-Based Personalized Recommendations	Presenter: Ha Manh Tran Title: Clustering Real-Time Log Data for Fault Detection	Presenter: Nhat Nguyen Quang Title: Multi-Feature Integration for Enhanced Satellite Image Classification
	Presenter: Van Khoe Ta Title: Estimating the RoL of UAV Lithium-Ion Battery Using IDGA-Based Feature Selection and LSTM Network Architecture	Presenter: Laihyuk Park Title: Autonomous UAVs in Disaster Management: a Survey on DRL-Driven Approaches	Presenter: Minh Vu Tran Title: QUARTER: an Efficient Spatial Grid Processing Framework
15:10 - 15:25	TEA BREAK		
	Track: Intelligent Aerial Access and Applications	Track: Aerial Communication and Networking	Track: Intelligent Remote Sensing
15:25 - 16:40	Chair: Assoc. Prof. Dr. Cuong Phan Quoc Presenter: Nhat Nguyen Quang Title: Learning Coarse-to-Fine: Progressive Resolution Training Strategies for Efficient Transfer Learning in Satellite Images	Chair: Dr. Vuong Nguyen Luong Presenter: Tung Son Do Title: Multi-Task Semantic Communication System for UAV Image Collection	Chair: Dr. Hoa Tran Thi Presenter: Pham Trung Dung Title: Improvement of building segmentation from very high-resolution remote sensing images through a transfer learning approach with ResUnet architecture
	Presenter: Huy Nguyen Hoang Title: A Spatio-Temporal Two-Step Linear Regression Model for Wind Speed Forecasting	Presenter: Nhat Ho Minh Title: KERES: A Knowledge-Embedded Retrieval Enhancement System for Precise Semantic Search	Presenter: Doan Duc Phan Title: A Framework for 3D Forest Map Reconstruction based on Gaussian Splatting
	Presenter: Cong Hoang Diem Title: Enhancing Physical Layer Security for UAV communications	Presenter: Dinh Tan Pham Title: Graph-based deep learning for human action recognition in aerial surveillance	Presenter: Hoa Tran Title: AI Powered Remote Sensing for Soil Erosion Modeling: A Google Earth Engine Approach

DAY 2 (July 17th, 2025)

7:30 - 11:45	Central Hall		
7:30 - 8:30	Registration		
8:30 - 9:00	Opening Ceremony		
9:00 - 9:45	Keynote Speaker 1: Prof. Gottfried Vossen		
9:45 - 10:30	Keynote Speaker 2: Prof. Sylvain Guilley		
10:30 - 10:45	Tea break		
10:45 - 11:30	Keynote Speaker 3: Prof. Koichiro Ishibashi		
LUNCH TIME			
13:30 - 17:00	Center for Excellent Research and Innovation		
	Room 1 (303)	Room 2 (304)	Room 3 (305)
	Track: Intelligent Aerial Access and Applications	Track: Aerial Communication and Networking	Track: Intelligent Remote Sensing
13:30 - 14:45	Chair: Dr. Hung Tran Presenter: Tuan Anh Tran Title: An Efficient Approach for Synthesizing 3D Human Models from 2D Moving Camera Images	Chair: Dr. Dong Nguyen Doan Presenter: Nguyen Tran Title: Compact Wideband 4-Port MIMO Antenna System for UAV Applications	Chair: Dr. Loc Nguyen The Presenter: Manh Phan Duc Title: Enhancing the quality of object detectors for foggy images
	Presenter: Huu Tu Hoang Title: A Frame-Based Architecture for Enhanced Secure IoT Communication with Ascon-128a	Presenter: Thanh Phung Truong Title: Intelligent Aerial Multiple Access-Enhanced Maritime Communications	Presenter: Quang Minh Doan Title: Assessing Time Series Imputation Reliability via Volumetric Water Prediction for Smart Sensing Systems
	Presenter: Dang Ninh Tran Title: Performance Analysis of LDPC Codes in 5G NR for Unmanned Aerial Vehicle Communication	Presenter: Trong Hien Le Title: Probabilistic Multipath Ad-hoc Routing Protocol for the Internet of Things based Applications	Presenter: Duy Tran Nguyen Minh Title: Improving Feature Extraction for Sensor Fault Detection in Low-Power IoT Systems
15:10 - 15:25	TEA BREAK		
	Track: Intelligent Aerial Access and Applications	Track: Aerial Communication and Networking	Track: Intelligent Remote Sensing
15:00 - 16:15	Chair: Dr. Hong Phan Thu Presenter: Dung Pham Quang Title: Environmental Risks Associated with UAV-Based Pesticide Application: A Critical Review	Chair: Dr. Du Nguyen Huu Presenter: Cuong Ho Title: Energy-Efficient DDPG-Based UAV-Assisted Asynchronous Federated Learning with MC-NOMA in IoT Networks	Chair: Dr. Quynh Tran Duc Presenter: Dang Lien Minh Title: Blockchain Integration for Secure and Transparent Satellite Remote Sensing Data Systems
	Presenter: Gyeong Min Kim Title: Integrated Deep Reinforcement Learning-Based Control for Trajectory Tracking of Quadrotors	Presenter: Thai Dinh Nguyen Title: Antenna Solutions for Drone Communications	Presenter: Quang Minh Nguyen Title: A Novel AI-Based Framework for Remote Sensing Data Analysis
	Presenter: Mung Nguyen Xuan Title: Energy-Efficient Fixed-Time Attitude Control for Quadcopter UAVs	Presenter: Le Hoang Minh, Tran Ngoc Son Title: Enhancing Aquaculture Productivity through Aerial Vision-Based Feeding Optimization	Presenter: Quang Huy Duong Title: Effect of Clutter Models on Radar Sensor Detection of Aerial Targets Using DVB-T2 P1 Symbol
18:30-21:00	GALA DINNER		

DAY 3 (July 18th, 2025)

8:30-11:30	<b>Session for FITA students</b>
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