



DAY 1 (July 16th, 2025)

Central Hall

07:30	◆	REGISTRATION
08:30	◆	OPENING CEREMONY
09:10	◆	TECHNICAL REPORT
09:20	◆	KEYNOTE SPEECH 1: QUANTUM MACHINE LEARNING AND OPTIMIZATION FOR 6G NETWORKS Keynote Speaker: Prof. Trung Q. Duong
10:05	◆	TEA BREAK
10:20	◆	KEYNOTE SPEECH 2: FEDERATED LEARNING: EVOLVING PROMISE OR PERSISTENT MIRAGE? Keynote Speaker: Prof. My T. Thai
11:05	◆	KEYNOTE SPEAKER 3: UAV-TO-X COMMUNICATIONS FOR 6G: AERIAL BASE STATIONS, RELAY NETWORKS, AND BEYOND Keynote Speaker: Prof. Xuan Nam Tran
11:50	◆	LUNCH BREAK



ROOM 1 (304)

Center for Excellent Research and Innovation

DAY 1
(July 16th, 2025)

13:30 ✦ TRACK: INTELLIGENT AERIAL ACCESS AND APPLICATIONS

Chair: Dr. Cong-Hoang Diem

Title: Navigation of Micro-UAVs in Dynamic Environments: Challenges, Current Solutions, and Future Directions

Presenter: Luong-Vuong Nguyen

Title: A Hierarchical Framework for Real-time Multi-person Pose Estimation

Presenter: Quang Anh N. D

Title: UAV Path Optimization Using LightGNN-Based Personalized Recommendations

Presenter: Luong-Vuong Nguyen

Title: Estimating the RoL of UAV Lithium-Ion Battery Using IDGA-Based Feature Selection and LSTM Network Architecture

Presenter: Van-Dai Nguyen

15:10 ✦ Tea Break

15:25 ✦ TRACK: INTELLIGENT AERIAL ACCESS AND APPLICATIONS

Chair: Assoc. Prof. Dr. Quoc-Cuong Pham

Title: Learning Coarse-to-Fine: Progressive Resolution Training Strategies for Efficient Transfer Learning in Satellite Images

Presenter: Nguyen Quang Nhat

Title: A Spatio-Temporal Two-Step Linear Regression Model for Wind Speed Forecasting

Presenter: Nguyen Hoang Huy

Title: Enhancing Physical Layer Security for UAV communications

Presenter: Cong-Hoang Diem



ROOM 2 (305)

Center for Excellent Research and Innovation

DAY 1
(July 16th, 2025)

13:30 ✦ TRACK: AERIAL COMMUNICATION AND NETWORKING

Chair: Dr. Thai-Hoc Nguyen

Title: A Survey on Energy-Aware Semantic Communication in LEO Satellites for 6G

Presenter: Thwe Thwe Win

Title: DRL for Aerial Access in Edge Intelligence Systems: A Survey

Presenter: Dang Huy Mac

Title: Clustering Real-Time Log Data for Fault Detection

Presenter: Ha Manh Tran

Title: Autonomous UAVs in Disaster Management: a Survey on DRL-Driven Approaches

Presenter: Laihyuk Park

15:10 ✦ Tea Break

15:25 ✦ TRACK: INTELLIGENT AERIAL ACCESS AND APPLICATIONS

Chair: Dr. Luong-Vuong Nguyen

Title: Multi-Task Semantic Communication System for UAV Image Collection

Presenter: Tung Son Do

Title: KERES: A Knowledge-Embedded Retrieval Enhancement System for Precise Semantic Search

Presenter: Nhat Ho Minh, Long Pham Tien Le

Title: Graph-based deep learning for human action recognition in aerial surveillance

Presenter: Dinh Tan Pham



ROOM 3 (310)

Center for Excellent Research and Innovation

DAY 1
(July 16th, 2025)

13:30 ✦ **TRACK: AERIAL HARDWARE AND MEASUREMENT**

Chair: Dr. Trong-Kuong Nguyen

Title: Efficient Edge Deep Learning Framework for Aerial IoT Applications

Presenter: Ngoc-Thinh Tran

Title: Edge AI: A Comprehensive Survey on Applications, Challenges, and Future Directions

Presenter: Quoc-Cuong Pham

Title: Multi-Feature Integration for Enhanced Satellite Image Classification

Presenter: Nguyen Quang Nhat

Title: QUARTER: an Efficient Spatial Grid Processing Framework

Presenter: Minh Vu Tran

15:10 ✦ Tea Break

15:25 ✦ **TRACK: INTELLIGENT REMOTE SENSING**

Chair: Dr. Thu-Hong Phan T.

Title: Improvement of building segmentation from very high-resolution remote sensing images through a transfer learning approach with ResUnet architecture

Presenter: Pham Trung Dung

Title: A Framework for 3D Forest Map Reconstruction based on Gaussian Splatting

Presenter: Doan Duc Phan

Title: AI Powered Remote Sensing for Soil Erosion Modeling: A Google Earth Engine Approach

Presenter: Hoa Tran



DAY 2 (July 17th, 2025)

Central Hall

- 07:30 ◆ **REGISTRATION**
- 08:30 ◆ **OPENING CEREMONY**
- 09:00 ◆ **KEYNOTE SPEECH 4: WHEN GENERATIVE AI GOES AIRBORNE**
Keynote Speaker: Prof. Gottfried Vossen
- 09:45 ◆ **KEYNOTE SPEECH 5: SECURITY IN DATACENTERS FOR AI APPLICATIONS**
Keynote Speaker: Prof. Sylvain Guilley
- 10:30 ◆ **TEA BREAK**
- 10:45 ◆ **KEYNOTE SPEAKER 6: BEAT SENSORS AND LIGHTWEIGHT DATA ENCRYPTION FOR LONG-POWER AND LONG-RANGE IOT SENSORS**
Keynote Speaker: Koichiro Ishibashi
- 11:30 ◆ **LUNCH BREAK**



ROOM 1 (304)

Center for Excellent Research and Innovation

DAY 2
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13:30 ✦ TRACK: INTELLIGENT AERIAL ACCESS AND APPLICATIONS

Chair: Dr. Hung Tran

Title: An Efficient Approach for Synthesizing 3D Human Models from 2D Moving Camera Images

Presenter: Tuan Anh Tran

Title: A Frame-Based Architecture for Enhanced Secure IoT Communication with Ascon-128a

Presenter: Huu Tu Hoang

Title: Performance Analysis of LDPC Codes in 5G NR for Unmanned Aerial Vehicle Communication

Presenter: Dang Ninh Tran

15:10 ✦ Tea Break

15:25 ✦ TRACK: INTELLIGENT AERIAL ACCESS AND APPLICATIONS

Chair: Dr. Hoa Tran

Title: Environmental Risks Associated with UAV-Based Pesticide Application: A Critical Review

Presenter: Quang-Dung Pham

Title: Integrated Deep Reinforcement Learning-Based Control for Trajectory Tracking of Quadrotors

Presenter: Gyeong Min Kim

Title: Energy-Efficient Fixed-Time Attitude Control for Quadcopter UAVs

Presenter: Xuan-Mung Nguyen



ROOM 2 (305)

Center for Excellent Research and Innovation

DAY 2
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13:30 ✦ TRACK: AERIAL COMMUNICATION AND NETWORKING

Chair: Dr. Doan-Dong Nguyen

Title: Compact Wideband 4-Port MIMO Antenna System for UAV Applications

Presenter: Nguyen Tran

Title: Intelligent Aerial Multiple Access-Enhanced Maritime Communications

Presenter: Thanh Phung Truong

Title: Probabilistic Multipath Ad-hoc Routing Protocol for the Internet of Things based Applications

Presenter: Trong Hien Le

15:10 ✦ Tea Break

15:25 ✦ TRACK: AERIAL COMMUNICATION AND NETWORKING

Chair: Dr. Huu-Du Nguyen

Title: Energy-Efficient DDPG-Based UAV-Assisted Asynchronous Federated Learning with MC-NOMA in IoT Networks

Presenter: Cuong Ho

Title: Antenna Solutions for Drone Communications

Presenter: Thai Dinh Nguyen

Title: Enhancing Aquaculture Productivity through Aerial Vision-Based Feeding Optimization

Presenter: Le Hoang Minh, Tran Ngoc Son



ROOM 3 (310)

Center for Excellent Research and Innovation

DAY 2
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13:30 ✦ **TTRACK: INTELLIGENT REMOTE SENSING**

Chair: Dr. The-Loc Nguyen

Title: Enhancing the quality of object detectors for foggy images

Presenter: Manh Phan Duc

Title: Assessing Time Series Imputation Reliability via Volumetric Water Prediction for Smart Sensing Systems

Presenter: Quang Minh Doan

Title: Improving Feature Extraction for Sensor Fault Detection in Low-Power IoT Systems

Presenter: Duy Tran Nguyen Minh

15:10 ✦ Tea Break

15:25 ✦ **TRACK: INTELLIGENT REMOTE SENSING**

Chair: Dr. Duc-Quynh Tran

Title: Blockchain Integration for Secure and Transparent Satellite Remote Sensing Data Systems

Presenter: Dang Lien Minh

Title: A Novel AI-Based Framework for Remote Sensing Data Analysis

Presenter: Quang Minh Nguyen

Title: Effect of Clutter Models on Radar Sensor Detection of Aerial Targets Using DVB-T2 P1 Symbol

Presenter: Quang Huy Duong