

# THE 14<sup>th</sup> EAI INTERNATIONAL CONFERENCE ON AD HOC NETWORKS (2023)

Friday, 10<sup>th</sup> November 2023

## CONFERENCE PROGRAM

Time	Content
	Friday, 10 <sup>th</sup> November 2023
7:30 - 8:00	Registration <i>(Meeting Room - 4<sup>th</sup> Floor - A1 building - Hanoi University of Industry)</i>
8:00 - 8:10	Opening Ceremony: Assoc. Prof. Pham Van Dong, Vice-Rector of HaUI
8:10 - 8:35	Keynote talks: "Federated Learning: Towards Large-scale Distributed Learning Systems" Presenter: Dr. Minh N. H. Nguyen, Vietnam - Korea University of Information and Communication Technology (VKU), The University of Danang Chair: Dr. Tong Van Luyen (Hanoi University of Industry)
8:35 - 8:40	Discussion (Q&A)
8:40 - 9:05	Keynote talks: "Federated PCA on Grassmann Manifold for IoT Anomaly Detection" Presenter: Assoc. Prof. Nguyen Hoang Chan, The University of Sydney Chair: Assoc. Prof. Pham Thanh Hiep (Le Quy Don Technical University)
9:05 - 9:10	Discussion (Q&A)
9:10 - 9:20	Group photos
9:20 - 9:30	Coffee break
9:30 - 11:30	Parallel sessions (Session 1-3)
11:30 - 13:00	Lunch

Venue: HaUI- 298 Cau Dien street, Bac Tu Liem District, Ha Noi, Vietnam

Zoom ID: zoom1@hau.edu.vn, Password: Abc123@!

## Session 1: Intelligent Integrated Systems

Chair: Assoc. Prof. Nguyen Quoc Dinh, Dr. Tran Hung Cuong - Vietnam

Meeting Room – 12<sup>th</sup> Floor – A1 building – Hanoi University of Industry

No	Code	Time	Authors	Paper title
1	339048	09:30 - 09:55	Pham, Xuan Thanh; Nguyen, Huy Hoang; Doan, Van Sang; Hoang, Manh Kha.	Combining MUSIC Algorithm and Adaptive Beamforming to Improve Online Call Quality
2	339046	09:55 - 10:20	Pham, Xuan Thanh; Nguyen, Van Tuan; Bo Quoc, Bao.	Non-inverting Buck-Boost DC-DC Converter with Three-mode Selection Circuit
3	338115	10:20 - 10:45	Le-Thi, Anh; Pham-Ngoc, Bich; Tran-Tien, Dung.	Two Embedding Algorithms in Schur-based Image Watermarking Scheme
4	339005	10:30 - 10:50	Tong, Luyen; Nguyen, Van Cuong.	Metaheuristics-Based Hyperparameter Tuning for Convolutional Neural Networks
5	339235	10:50 - 11:10	Tong, Luyen; Phan, Dang Hung; Hoang, Kha.	Antenna Array Pattern Nulling via Convex Optimization
Give Certificates and take group photos				

## Session 2: Wireless Communications

Chair: Assoc. Prof. Pham Thanh Hiep - Vietnam

Conference Room 1 - 4<sup>th</sup> Floor – A1 building – Hanoi University of Industry

No	Code	Time	Authors	Paper title
1	338153	09:30 - 09:50	Le, Trang, Thi; Nguyen, Van Cuong; Tong, Luyen.	Interference suppression approaches utilizing phase-only control and metaheuristics algorithms: A comparative study
2	339008	09:50 - 10:10	Tong, Luyen; Nguyen, Minh Tran; Le, Van Thai; Nguyen, Van Cuong.	Reconfigurable Intelligent Surface-Aided Wireless Communications Considering Interference Suppression
3	339071	10:10 - 10:30	Tong, Luyen Nguyen, Thi , Van Anh; Nguyen, Van Cuong; Tran, Duong; Le, Trang.	Nature inspired algorithms-based beamforming for advanced antenna systems
4	338179	10:30 - 10:50	Thuc, Kieu, Xuan; Vinh, Tran, Viet Tong, Luyen; Hoang, Kha; Phuong, Nguyen, Thu; Liem, Nguyen, Phu.	Investigation of Transmit Antenna Selection for MU-VASM Systems over Correlated Channels
5	338174	10:50 - 11:10	Pham, Thi Quynh Trang; Duong, Thi Hang; Ha, Xuan Son; Dinh, Trieu Duong; Trinh, Anh Vu.	Millimeter Wave Path Loss Modeling for UAV Communications Using Deep Learning
Give Certificates and take group photos				

### Session 3: Network Solutions

Session chair: *Dr. Tong Van Luyen, Dr. Le Thi Anh - Vietnam*

Conference Room 2- 4<sup>th</sup> Floor – A1 building – Hanoi University of Industry

No	Code	Time	Authors	Paper title
1	337973	09:30 - 09:50	Le Thi, Anh; Kieu-Xuan, Thuc; Nguyen-Thi, Hong; Tran-Phuong, Nhung.	Enhance secrecy performance of the cooperative NOMA/UAV network applying NSGA-II algorithm
2	339210	09:50 - 10:10	Le, Giang, Truong; Hoang, Canh, Thi; Pham, Thong, Huy; Phan, Dang Hung.	Fake news detection based on multi-view fuzzy clustering algorithm
3	337900	10:10 - 10:30	Binh, Nguyen Thi My; Thien, Nguyen Van	An efficient approach to the $k$ -strong barrier coverage problem under the probabilistic sensing model in wireless multimedia sensor networks
4	338237	10:30 - 10:50	Binh, Nguyen Thi My; Thien, Nguyen Van; Hop, Dang Trong	An efficient method for solving the best coverage path problem in homogeneous wireless Ad-hoc sensor networks
5	338849	10:50 - 11:10	Bui, Trung Ninh; Lam, Sinh Cong; Tran, Duc Tan; Nguyen, Thi Dieu Linh	Performance of Uplink Ultra Dense Network with Antenna Selection
Give Certificates and take group photos				