

DAY 1 (12/09/2024)				
07h30 - 09h00	Registration starting at 7h30 at 5th Floor, Alpha Buiding			
09h00 - 09h30	Opening Ceremony			
09h30 - 10h15	Data Engineering in IoT Keynote Speaker: Prof. Richard Chbeir Chair: Le Hong Anh			
TEA BREAK				
10h45 - 11h30	Internet for Medical Things: From Mobile App to AI-Powered Computer Aided Medical Diagnosis and Training Keynote Speaker: Prof. Thuy Nguyen Chair: Le Hong Anh			
LUNCH TIME				
	Room 501, Alpha Building	Room 502, Alpha Building	Room 503, Alpha Building	Room 504, Alpha Building
	Track: Internet of Things Applications	Track: Intelligence Systems	Track: Connectivity for Internet of Things	Track: Internet of Things Technologies
	Chair: Hoa Tran	Chair: Thuy Nguyen	Chair: Tran Ngoc Thinh	Chair: Dung Pham Quang
13h30 - 14h50	Presenter: Thanh-Sach LE Title: Adversarial Training for Boosting Super-Resolution by Combination with License Plate Recognition	Presenter: Pham Thi Thao Nguyen Title: Underwater Image Super-Resolution Based on the Combination of Generative Adversarial Networks and Transformer	Presenter: Gia-Huy Nguyen Title: Performance Analysis of an UAV-Assisted NOMA-Based on MEC in IoT Network with Wireless Power Transfer	Presenter: Le Phuong Nam Title: Virtual Reality Irrigation Scheduler System: A Straightforward to Implementation
	Presenter: Van Quoc Le Title: THE INTEGRATION OF SMART SENSOR AND DUMBBELLS FOR FITNESS	Presenter: Nguyen Duc Minh Title: Short-Time Fourier Transform for Detecting the Queen Bee State	Presenter: Le Hoang Nam Title: Performance Evaluation of Uplink OFDMA-IDMA for Next Generation Wi-Fi	Presenter: Nguyen Thi My Binh Title: Efficient Approaches for Drone-Assisted Vehicle Parcel Delivery Routing Problems in IoT Logistics Ensuring Optimized Energy Consumption
	Presenter: Nguyen Nam-Hoang Title: Solar Power Generation Prediction Using a Lightweight ML Model for Edge Computing	Presenter: Trinh Duc Minh Title: Elitist Strategy Genetic Algorithm-Based Planning Optimization Deriving for Smart Port Decision Support System	Presenter: Trung-Anh Do Title: UAV Trajectory Optimization for Network Edge IoT Device Data Collecting via Deadline Distributions	Presenter: Nguyen Thien An Title: Energy Efficient Scheduler Based on GRU Model for Smart Street Light Using NBloT
	Presenter: Van Khanh Doan Title: Short-Term Electricity Demand Forecast Leveraging Google Trends Data Toward Smart Green Energy Supply	Presenter: Ha-My Nguyen Title: Harmful Videos Classification for Safer Online Social Network	Presenter: Tri-Hai Nguyen Title: Age of Information Minimization in Hierarchical Aerial Networks via MDDPG Approach	Presenter: Van Loi Nguyen Title: LaRed: An LSTM Accelerator on RISC-V-Based Edge Devices
TEA BREAK				
	Track: Internet of Things Applications	Track: Intelligence Systems	Track: Connectivity for Internet of Things	Track: Intelligence Systems
15h30 - 16h50	Chair: Dung Pham Quang	Chair: Thuy Nguyen	Chair: Tran Ngoc Thinh	Chair: Tri-Hai Nguyen
	Presenter: Hoa Tran Title: Meteorological Drought Prediction Based Long Short-Term Memory Algorithm	Presenter: Tran Minh Quang (Online) Title: Towards an Approach of Traffic Information Extraction Through ChatGPT	Presenter: Huynh Phuc Nghi Title: Leverage Frequency Domain Neural Networks in Parking Lot Occupancy Detection on FPGA Device	Presenter: Tien-Duy Nguyen Title: An Optimal Fuzzy Controller Design Method Based on Hedge Algebras and PSO Algorithm
	Presenter: Nguyen Thi Xuan Hoa Title: A Demand Forecasting Result Comparison Between Make-To-Stock and Make-To-Order Manufacturing: Using a Hybrid ARIMA-LSTM Model	Presenter: Nguyen Hai Thanh (Online) Title: An Innovative Intelligent Method for Crashing Projects with Normally Distributed Activity Times	Presenter: Le Thi Huong Tra Title: Latency Minimization for Federated Learning in NOMA-Enabled and RIS-Assisted Industrial IoT	Presenter: Tran Duc Minh Title: An Effective Deep Learning Model Designed for Detecting Fiber Faults in the OTDR Dataset
	Presenter: Hoang-Long Dang Title: Intelligence Arcing Failure Diagnosis Using Frequency Component Extraction for IoT Applications	Presenter: Jingjun Bi (Online) Title: Weighted Graph Convolution Network for Multi-View Semi-Supervised Classification	Presenter: Thanh Phung Truong Title: Intelligent Semantic Communication Networks Empowered by Non-Orthogonal Multiple Access	Presenter: Phuoc-Minh Phan Title: A More Refined Advancement to the Low-Code Framework for End-To-End Big Data Management
	Presenter: Dang Lien Minh Title: Deep Learning Approaches Based Robust QR Code Extraction and Verification for Industrial IoT	Presenter: Binh Trinh Thanh (Online) Title: Analysing Conflict of Interest Integrated in Role-Based Access Control Model Using Event-B	Presenter: Cong Minh Vo Title: Routing Based on Channel, Distance, Depth, and Energy for Underwater Wireless Networks (UWSN) - RBCDDE	Presenter: Quoc-Trinh Vo Title: Artificial Neural Network Based Load Estimation in Single-Input Single-Output Inductive Power Transfer Systems
DAY 2 (13/09/2024)				
07h30 - 09h00	Registration starting at 7h30 at 5th Floor, Alpha Buiding			
09h00 - 09h45	Quantum Reinforcement Learning: Concepts, Models, and Applications Keynote Speaker: Prof. Joongheon Kim Chair: Le Viet Tuan			

09h45 - 10h30	Computer Vision and Applications: From CNN to MLP Mixer Keynote Speaker: Prof. Van-Dung Hoang Chair: Le Viet Tuan			
	TEA BREAK			
	Track: Internet of Things Applications	Track: Intelligence Systems	Track: Internet of Things Security and Privacy	Track: Internet of Things Applications
10h50 - 12h00	Chair: Van Lam Ho	Chair: Quoc Cuong Pham	Chair: Tra Le Thi Huong	Chair: Quoc-Trinh Vo
	Presenter: Nguyen Huu Du Title: A machine learning based method for improving the performance of water quality prediction	Presenter: Huu-Tuong HO Title: MoviePoster-Grounded Contextual Visualization Using Multimodal Techniques	Presenter: Minh-Sang Nguyen Title: Secrecy Offloading Analysis for UAV-Assisted NOMA-MEC in IoT Networks with Imperfect CSI	Presenter: Vo Ngoc Sang Title: Beyond Textbooks: A Novel Workflow for Customized Vocabulary Sheet Generation with Large Language Models
	Presenter: Hoa Tran-Dang Title: Digital Twin-Assisted Contextual Bandit Learning for Peer Offloading in Fog-Based IoT Networks	Presenter: Hoang-Dung Dao Title: Real-Time Traffic Density Estimation System Based on Deep Learning and Big Data Technology	Presenter: Nguyen Huu Hieu Title: A Low-Resource Convolutional Autoencoder Approach for Anomaly Detection in Web-Based Applications	Presenter: Do Nhu Tai Title: Addressing Data Imbalance in Insurance Fraud Prediction Using Sampling Techniques and Robust Losses
	Presenter: Bach Ngoc Pham Title: Wi-Fi Resources Forecasting by Using Multivariate Prediction Based on Input Data Clustering Using an Ensemble of Decomposed Transformer Models	Presenter: Minh Tai Pham Nguyen Title: An Efficient Configuration Based on Deep Learning Models for Predictive Maintenance of Solar-Powered IoT Devices	Presenter: Tam Ninh Thi-Thanh Title: Enhancing Security at the Physical Layer in Cognitive Radio Networks via RIS Assistance	Presenter: Cuong Pham-Quoc Title: Edge AI-Powered Access Control Systems for Smart Classrooms
	Presenter: Quach Phu Quy Title: An Improvement of Large Language Model for Vietnamese Traffic Law Question Answer System	Presenter: Huy Nguyen Phuong Title: A CNN Approach in Building EEG-Based Emotion Recognition System for AIoT Applications	Presenter: Le Thi Trang Linh Title: A Novel Multi-Expert System in Conjunction with ML Models for Detecting DOS on Edge Computing	Presenter: Hung Tran Title: Enhancing Convolution Computing: An Overlap-Add Fast Fourier Transform Approach
LUNCH TIME				
	Track: Internet of Things Applications	Track: Intelligence Systems	Track: Internet of Things Security and Privacy	Track: Blockchain
14h00 - 15h40	Chair: Nguyen Trong Kuong	Chair: Quoc Cuong Pham	Chair: Tra Le Thi Huong	Chair: Cao Vu Bui
	Presenter: Si Van-Tien Tran Title: Toward Intelligent Digital Twins-Based Underfloor Heating Pipeline Maintenance Using IoT and BIM	Presenter: Van-Lam Ho Title: Build Bad Debt Forecasting Model Using Catboost Algorithm	Presenter: Van Thinh Pham Title: Efficient Hierarchical ML-Based IoT Intrusion Detection System Leveraging PSO and Sequential Forward Feature Selection	Presenter: An Bang Title: Anomaly Behavior Analysis for Blockchain Social Networks Using Heterogeneous Graph Neural Networks
	Presenter: Minh N. T. Nguyen Title: Automated Traffic Violation Monitoring and Reporting System	Presenter: Le Nguyen Quoc Khanh Title: Deep Learning-Based Identification of Rab Proteins: A Convolutional Neural Network Approach with Evolutionary Information Integration	Presenter: Cuong Pham-Quoc Title: FPGA-Based Lightweight Ascon Encryption for Edge-AI: A Systematic Review	Presenter: Hang Nguyen Thu Title: A Blockchain-Based Framework for Sustainable Supply Chain Management of the Mining Industry in Vietnam
	Presenter: Huu Hoai Linh Nguyen Title: Collaborative Filtering-Based Personalized Recommendations: Challenges, Limitations, and Applications	Presenter: Luong Vuong Nguyen Title: Neural Embedding-Based Collaborative Filtering for Movie Recommendation Services	Presenter: Nguyen Tuan Kiet Title: Deep Packet: Deep Learning Model for Intrusion Detection	Presenter: Long Nguyen Van Title: Building a Private Blockchain Network for Applications in Security
	Presenter: Lap Dang Title: A WalaP-Based CNN Architecture for Real-Time Edge Computing Devices in IoT Systems	Presenter: Do Nhu Tai Title: Focusing the View: Enhancing U-Net with Convolutional Block Attention for Superior Medical Image Segmentation		Presenter: Dong Bui Huu Title: DTKChain: An Efficient Blockchain-Based Solution for Security, Integrity and Fraud Prevention of Banking Transactions
	Presenter: Pham Dang Khoi Title: Sensing and Estimating Human Pose for a Virtual Try-On Application	Presenter: Nguyen Le Huu Bao Title: Leveraging Diverse Handcrafted Features for Improved Rice Seed Recognition: A Step Toward Precision Agriculture		
TEA BREAK				
Keynote speakers with FPT students				
16h00-17h00	<ul style="list-style-type: none"> - Prof. Joongheon Kim (Korea University, South Korea) - Prof. Richard Chbeir (University Pau & Pays de l'Adour, France) - Prof. Thuy Nguyen (RMIT University Vietnam, Vietnam) - Prof. Van-Dung Hoang (HCMC University of Technology and Education, Vietnam) 			
GALA DINNER				

DAY 3 (14/09/2024)

09h00-10h00

Online session