

## **THURSDAY, DECEMBER 19, 2024**

### **PLENARY SESSION - Main Hall**

- 08:00 - 08:30: Opening Ceremony
- 08:30 - 09:30: Keynote Speech
- 09:30 - 09:45: Coffee Break

### **ROOM 1: IoT & Security**

#### *Morning Session (09:45 - 11:30)*

- 09:45 - 10:15: [352695] Smart Contract Integration in Tuition Management
- 10:15 - 10:45: [352337] Blockchain Application in Online Certificate Issuance and Verification Certificate System
- 10:45 - 11:00: Coffee Break
- 11:00 - 11:30: [352310] A New Architecture for Controlling IoT Devices of Smart Room using ESP32 Microcontroller
- 11:30 - 11:45: [353622] A novel framework for real-time analysis of outlier IoT data

#### *Afternoon Session: AI Applications I*

- 14:00 - 14:30: [352724] ENHANCING TRANSFORMER-BASED OBJECT DETECTION MODEL FOR AERIAL IMAGES
- 14:30 - 15:00: [352775] Automatic recognition and scoring system in military training applies modern deep learning techniques
- 15:00 - 15:30: [352778] Energy Correlation-Based EBM for Skin Lesion Classification: A Novel Approach
- 15:30 - 15:45: Coffee Break
- 15:45 - 16:15: [352780] EIS-PoI: An Energy-driven Approach for Instance Segmentation using Points of Interest
- 16:15 - 16:35: [353924] Real-time object detection based on Yolov8
- 16:35 - 16:55: [354072] Lane-based vehicle recognition using deep learning models

### **ROOM 2: AI Applications II**

#### *Morning Session*

- 09:45 - 10:15: [352305] An integration of VGG19 and SARIMAX in water level forecasting using satellite imagery and time series data
- 10:15 - 10:45: [352307] Approach to Scalable Machine Learning Operations (MLOps) Architectures for Research Labs with Limited Hardware Resources
- 10:45 - 11:00: Coffee Break
- 11:00 - 11:30: [352631] Missing Data Imputation for Sensor Observation Streams Leveraging Data Correlation and Message Propagation

- 11:30 - 11:45: [353561] Enhancing Deep Learning Models for Crop Disease Detection Using Keras Tuner

#### *Afternoon Session*

- 14:00 - 14:30: [352661] Model Integrating CNN-GRU and GA Algorithm for Rainfall Forecasting from Radar Images at Phadin Station
- 14:30 - 15:00: [351857] Water Quality Inspection System for Mariners Using EKF's Continuous Learning Algorithms
- 15:00 - 15:30: [352304] Using Auto Immune LightGBM for Prediction of Ground Water Quality in Vietnam and Indian Regions
- 15:30 - 15:45: Coffee Break
- 15:45 - 16:05: [353624] Missing data Imputation with graph neuron networks and message propagation
- 16:05 - 16:25: [353789] Combining Lightweight Deep Learning Models with Data Augmentation for Analysis of Cervical Cells
- 16:25 - 16:45: [353791] Detecting Abnormal Cervical Cells Based on Segmentation of Overlapping Cells
- 16:45 - 17:00: [354021] FORECASTING STORMS AND FLOODS IN VIETNAM WITH DEEP LEARNING METHODS

### **FRIDAY, DECEMBER 20, 2024**

#### **ROOM 1: AI Applications I**

##### *Morning Session*

- 08:00 - 08:30: [352767] Caught in the Lens: Zero-Shot BioCLIP Struggles with Camera Trap Wildlife Images
- 08:30 - 09:00: [352786] A Comparison of Deep Learning Models for White Blood Cell Detection
- 09:00 - 09:20: [353613] Detecting Driver Drowsiness Using Deep Learning Techniques
- 09:20 - 09:40: [354044] Energy-based Bounding Box Generation for Object Detection
- 09:40 - 09:55: Coffee Break
- 09:55 - 10:15: [353974] Cortex Vision: Detection of Ophthalmic Disease Using Machine Learning Algorithm
- 10:15 - 10:35: [353650] Enhancing Motion Estimation with BM-EDM Method
- 10:35 - 11:00: [353591] EMPD: Energy-based Motion Pattern Detection

##### *Afternoon Session*

- 14:00 - 14:30: [353857] BUILDING AN AUTOMATIC TRAFFIC MONITORING SYSTEM BASED ON WEBGIS 3D
- 14:30 - 15:00: [354113] Application of Machine Learning Models for Cardiovascular Disease Prediction
- 15:00 - 15:15: Coffee Break

- 15:15 - 15:45: [353996] Advanced Predictive Modeling of Forex Market Fluctuations Using Ensembles Learning
- 15:45 - 16:00: [353997] Enhancing Water level forecasting models Based on Ensemble Learning

## **ROOM 2: AI Applications III**

### *Morning Session*

- 08:00 - 08:30: [352754] Analyzing Social Networks Using Graph Neural Networks with Advanced Hyperparameter Optimization Techniques
- 08:30 - 09:00: [352407] Blending Federated Learning and Value-Sensitive Design for Ethics and Privacy-Preserving in Education
- 09:00 - 09:20: [353657] Enhancing User-Base Content-Aware Collaborative Filtering using Energy Distance with Pre-Filtering Contextual Features
- 09:20 - 09:40: [353651] Enhancing the quality of recommendation lists using Graph Convolutional Networks
- 09:40 - 09:55: Coffee Break
- 09:55 - 10:15: [353643] Energy Distance in Popular Filtering Recommendation
- 10:15 - 10:35: [353617] Personalized Travel Experiences: Contextual Data-Based Recommendation Solutions
- 10:35 - 10:55: [353607] A method utilizing energy distance to address sparsity of dataset in recommendation systems
- 10:55 - 11:15: [353608] Energy-Based Models with Energy Distance for Video Captioning

### *Afternoon Session*

- 14:00 - 14:20: [353860] A Multi-modal Testcase Recommendation System for Teaching Programming in Higher Education
- 14:20 - 14:40: [353911] Combining accuracy and diversity to enhance the quality of the recommender system
- 14:40 - 15:00: [353998] Energy-based Framework for Tag-based Recommendation Systems
- 15:00 - 15:15: Coffee Break
- 15:15 - 15:35: [353863] Twitter Unveiled: Profiling Sentiments and Engagement Patterns
- 15:35 - 15:55: [353882] Data analysis and classification of the news

## **CLOSING CEREMONY - Main Hall**

- 16:00 - 17:00: Closing Ceremony