

CITA 2023

CONFERENCE PROGRAM



Wrocław University
of Science and Technology

PHENIKAA
UNIVERSITY



VN-UK



HueCIT

CITA 2023

CONFERENCE PROGRAM



Day1

JULY 28.2023

Place: K Zone, Vietnam-Korea University of Information and Communication Technology

OPENING CEREMONY

13:00-13:30

Registration

13:30-13:35

Introduction to delegates

13:35-14:10

Opening remarks and welcome speech
Technical reports

14:10-14:30

Photo session
Tea break

PARALLEL SESSIONS – VIETNAM NATIONAL TRACK

Section 1

TOPIC : DATA SCIENCE AND ARTIFICIAL INTELLIGENCE (1)

Location : Room A110

14:30-14:50

AECWT-3DR-Net: Damage Localization Network for Concrete Structures Using Acoustic Emission Sensors

Van Vy and Hyungchul Yoon

14:50-15:10

Evolutionary Generative Adversarial Network for Missing Data Imputation.

Bao Ngoc Vi, Cao Truong Tthi Cong Nguyen

15:10-15:30

Implementation of Convolutional Neural Network on a Microcontroller for Classification of Audio Signals

Dinh-Hoang-Long Tran, Quoc-Huy Le

15:30-15:50

Applying Machine Learning to RNA Secondary Structure Prediction Problem

Doan Duy Binh, Pham Minh Tuan and Dang Duc Long

15:50-16:10

Facial Beauty Prediction with Vision Transformer

Duy Tran, Thang Le, Khoa Tran, Hoang Le, Cuong Do, Thanh Ha

16:10-16:30

Three-Dimensional Hair Structure Reconstruction from a Single Sketch Image without Intermediate Representation

Anh-Duc Lo and Chau Ma-Thi

16:30-16:50

MIMEM: A Hybrid Metaheuristic Method Solving the Resource Constrained Scheduling Problem

Huu Dang Quoc

16:50-17:10

IoT Botnet Detection and Classification using Machine Learning Algorithms for Improved Cybersecurity

Pham Van Quan, Ngo Van Uc, Do Phuc Hao and Nguyen Nang Hung Van

Section 2

TOPIC : DATA SCIENCE AND ARTIFICIAL INTELLIGENCE (2)

Location : Room A111

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Location : Room A111

14:30-14:50

Weapon Detection with YOLO Model Version 5, 7, 8

Doan Trung Son and Nguyen Thi Khanh Tram, Vo Thai Anh

14:50-15:10

Aggregation Methods in the Wisdom of Crowds:
A Literature Review

Thanh Trung Nguyen, Hai Bang Truong

15:10-15:30

Xây Dựng Hệ Thống Phân Loại Bệnh U Phổi, Viêm Phổi
Và Trần Khí Màng Phổi

Nguyễn Tấn Phú, Dư Nhật Kha, Mã Tuấn Duy,
Nguyễn Nhị Gia Vinh, Phan Quang Vinh

15:30-15:50

Hệ Khuyến Nghị Dựa Vào Phân Tích Tình Cảm:
Bài Khảo Sát Ngắn

Phạm Đình Tài, Phan Thị Huyền Trang và Nguyễn Ngọc Thành

15:50-16:10

Kỹ Thuật Lựa Chọn Đặc Trưng Trong Dự Đoán
Code-Smell Dựa Trên Học Máy

Binh Nguyen Thanh, Minh Nguyen H. N., Hanh Le Thi My and Binh Nguyen Thanh

16:10-16:30

Tăng Tốc Cho Khai Thác Tập Hữu Ích Cao Bằng Việc Tránh
Khai Thác Lại Các Tập Hữu Ích Cao Phổ Biến

Nông Thị Hoa, Nguyễn Đức Hiến

16:30-16:50

Khai Phá Ý Kiến Và Phân Tích Quan Điểm Người Học
Dựa Trên Mô Hình PhoBERT

Trần Thị Dung, Huỳnh Xuân Lâm, Bùi Ngọc Dũng

16:50-17:10

Tổng Quan Về Các Dạng Mới Của Tập Hữu Ích Cao

Nông Thị Hoa, Nguyễn Đức Hiến, Nguyễn Thị Duyên

Section 3

TOPIC 3.1: IMAGE AND NATURAL LANGUAGE PROCESSING

Location : Room A112

14:30-14:50

Predicting Sentiment with Vietnamese Hotel Services
by LSTM Model

Linh Bui Khanh, Anh Nguyen Quynh, Hai Tran Van, Ha Nguyen Thi Thu

14:50-15:10

Apply CNN-XGBoost into Weather Image Recognition

Tran Quy Nam and Phi Cong Huy

15:10-15:30

Effective Color Spaces for Quaternion-valued Neural
Network in Depth Estimation

Minh Tuan Pham, An Hung Nguyen and Cao Duy Hoang

15:30-15:50

Research and Evaluate some Deep Learning Methods
to Detect Forest Fire based on Images from Camera

Cong Tung Dinh, Thu Huong Nguyen, Huyen Do Thi, Nam Anh Bui

15:50-16:10

Trích Xuất Dữ Liệu Hồ Sơ Nhập Học Để Cải Tiến Quy Trình
Tuyển Sinh Tại Trường Đại học Công nghệ Đồng Nai

Đỗ Phúc Thịnh, Bùi Ngọc Tiến, Bùi Nguyên Tuấn Anh và Phan Tiến Linh

16:10-16:30

Biểu Diễn Ngữ Nghĩa Số Học Sử Dụng Phương Pháp
Học Máy Đa Phương Thức

Bùi Huy Trịnh, Nguyễn Hữu Nhật Minh, Sebastian Nguyen

TOPIC 3.2: SOFTWARE ENGINEERING AND INFORMATION SYSTEM

Location : Room A112

16:30-16:50

A Buffer Based Scheme for SQLite on NAND Flash
Memory

Vanphi Ho, Vandai Tran and Kimtrong Le

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16:50-17:10

Toward an Intelligent Maps Construction Framework:
A Case-study of VKU Campus Map

Vinh Nguyen Van Thanh,
Nha Nguyen Dang, Trung Le Kim Hoang and Tuan Nguyen

17:10-17:30

A Knowledge-based Framework for Developing Smart
Interfaces for Smart Service Systems

Minh Truong Nguyen, Thang Le Dinh and Thi My Hang Vu

Section 4

TOPIC: NETWORK AND COMMUNICATIONS

Location : Room A113

14:30-14:50

Using LSTM Network for Predicting Radio Mobile
Networks' Behaviors

Cuong Pham-Quoc, Tuan Tang-Anh and Chien Tang-Tan

14:50-15:10

Implement Performance Evaluation for Scheduling
Algorithms used in Autonomous Driving Vehicles

Tran-Viet An and Vu-Anh-Quang Nguyen

15:10-15:30

A Post-Filtering for Performance of Differential
Microphone Array

Nguyen Ba Huy, Phạm Tuan Anh, Quan Trong The

15:30-15:50

Xây Dựng và Nâng Cao Hiệu Năng của Hệ Thống
LoRa/LoRaWAN trong Các Điều Kiện Môi Trường Thực Tế

Võ Văn Hoàng, Phan Thị Lan Anh

15:50-16:10

Mô Hình Định Vị Thích Nghi Cho Hệ Thống Truyền Thông
Bằng Ánh Sáng Khả Kiến

Nguyễn Văn Thiện, Nguyễn Duy Nhật Viễn, Trần Thế Sơn, Dương Hữu Ái

16:10-16:30

Thiết Kế, Thực Nghiệm Và Đánh Giá Hoạt Động Của Mạng
Điều Khiển Nội Bộ CAN Trong Xe Ô-Tô

Nguyễn Chí Thành, Trần Thế Sơn, Đặng Quang Hiến, Dương Hữu Ái

Section 5

TOPIC: DIGITAL ECONOMY

Location : Room A114

14:30-14:50

The Impact of Perceived Risk and Its Role in Brand Awareness, Intrinsic
Motivation, and Purchase Intention in the Telecommunications Industry
in Vietnam

Phuoc-Cuu-Long Le, Thi-Thuy-Trinh Tran, Thi-Duyen Pham,
Thi-Thanh-Minh Dang, and Linh-Giang Nguyen

14:50-15:10

The Impact of Social Media Experience on eWOM Usage Behavior:
A Case Study of Students from the University of Danang

Thi-Thuy-Trinh Tran, Thi-Thanh-Minh Dang,
Phuoc-Cuu-Long Le and Thi-Thu-Huong Dao

15:10-15:30

Vai Trò Điều Tiết Của Yếu Tố Trực Quan Của eWOM Lên Môi
Quan Hệ Giữa Rủi Ro Và Ý Định Mua Sản Phẩm Gia Dụng Điện Tử

Vũ Thị Quỳnh Anh, Nguyễn Thị Kiều Trang, Nguyễn Vũ Như Quỳnh

15:30-15:50

Ảnh Hưởng Của Trải Nghiệm Truyền Thông Mạng Xã Hội Đến Ý Định Mua
Hàng Trực Tuyến Của Người Tiêu Dùng Trong Ngành Hàng Thời Trang

Trần Khánh Hùng, Mai Thị Thu Hòa, Nguyễn Thị Diệu Linh, Lê Phước Cửu Long

15:50-16:10

Các Yếu Tố Tác Động Đến Ý Định Tiếp Tục Sử Dụng Ví Điện Tử
Của Thế Hệ Y và Thế Hệ Z Tại Việt Nam Như Thế Nào?

Mai Thị Thu Hòa, Trần Khánh Hùng, Nguyễn Thị Kiều Trang

18:00-20:30
GALA DINNER

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Day2

JULY 29.2023

Place: K Zone, Vietnam-Korea University of Information and Communication Technology

KEYNOTE LECTURE

Place: Main Hall

Chair: Prof.Dr.Sc. Ngoc-Thanh Nguyen

07:30-08:00

Registration

08:00-08:45

Introduction to keynote speech

Keynote speech

Q&A

08:45-09:10

Photo session

Tea break

PARALLEL SESSIONS – INTERNATIONAL TRACK

Section 1

TOPIC : DATA SCIENCE AND ARTIFICIAL INTELLIGENCE (1)

Location : Room A110

09:10-09:30

Classification of ransomware families based on hashing techniques

Tran Duc Le, Ba Luong Le, Truong Duy Dinh and Van Dai Pham

09:30-09:50

Differentially-Private Distributed Machine Learning with Partial Worker Attendance: A Flexible and Efficient Approach

Le Trieu Phong and Tran Thi Phuong

09:50-10:10

Building Legal Knowledge Map Repository with NLP Toolkits

Hung Ngo, Hien D. Nguyen and Nhien-An Le-Khac

10:10-10:30

A New ConvMixer-based Approach for Diagnosis of Fault Bearing using Signal Spectrum

Manh-Hung Vu, Van-Quang Nguyen, Thi-Thao Tran and Van-Truong Pham

10:30-10:50

Towards a New Multi-tasking Learning Approach for Human Fall Detection

Manh-Hung Vu, Van-Quang Nguyen, Thi-Thao Tran and Van-Truong Pham

Section 2

TOPIC : DATA SCIENCE AND ARTIFICIAL INTELLIGENCE (2)

Location : Room A111

09:10-09:30

A comparative study of Wrapper feature selection techniques in Software Fault Prediction

Nguyen Thanh Long, Ha Thi Minh Phuong and Nguyen Thanh Binh

09:30-09:50

INCORPORATING NATURAL LANGUAGE-BASED AND SEQUENCE-BASED FEATURES TO PREDICT PROTEIN SUMOYLATION SITES

Tran Thi-Xuan, Nguyen Van-Nui and Le Nguyen Quoc Khanh

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09:50-10:10

A Model for Alliance Partner Selection Based on GM (1, 1) and DEA Frameworks – Case of Vietnamese Coffee Industry

Ngoc Thang Nguyen, Van Thanh Phan, Thi Ai Nhi Duong, Thanh Ha Le, Thao Vy Pham, Nghiem Hong Ngoc Bich Pham and Thanh Giang Kieu

10:10-10:30

Car Detector Based on YOLOv5 for Parking Management

Duy-Linh Nguyen, Xuan-Thuy Vo, Adri Priadana and Kang-Hyun Jo

10:30-10:50

Deep Learning-Based Approach for Automatic Detection of Malaria in Peripheral Blood Smear Images

Vu-Thu-Nguyet Pham, Quang-Chung Nguyen, Quang-Vu Nguyen and Huu-Hung Huynh

10:50-11:10

An Improved Transfer Learning-Based Approach for Detecting Abnormal Cervical Cells from Pap Smear Microscopic Images

Nga Le-Thi-Thu and Vu-Thu-Nguyet Pham

Section 3

TOPIC 3.1: IMAGE AND NATURAL LANGUAGE PROCESSING (1)

Location : Room A112

09:10-09:30

A Multi Context Decoder-based Network with Applications for Polyp Segmentation in Colonoscopy Images

Ngoc-Du Tran, Dinh-Quoc-Dai Nguyen, Ngoc-Linh-Chi Nguyen, Van-Truong Pham and Thi-Thao Tran

09:30-09:50

AMG-Mixer: A Multi-Axis Attention MLP-Mixer Architecture for Biomedical Image Segmentation

Hoang-Minh-Quang Le, Trung-Kien Le, Van-Truong Pham and Thi-Thao Tran

09:50-10:10

Investigating Yolo models for rice seed classification

Thi-Thu-Hong Phan, Huu-Tuong Ho and Thao-Nhien Hoang

10:10-10:30

Few-Shots Novel Space-Time View Synthesis from Consecutive Photos

Van Quan Mai and Duc Dung Nguyen

10:30-10:50

STG-SimVP: Spatiotemporal GAN-Based SimVP for Video Prediction

Duong Le and Duc Dung Nguyen

10:50-11:10

Tritention U-Net: A modified U-Net Architecture for Lung Tumor Segmentation

Nguyen Hung Le, Duc Dung Nguyen, Tuong Nguyen Huynh and Thanh Hung Vu

11:10-11:30

Multi-modal with Multiple Image Filters for Facial Emotion Recognition

Thanh Thong Huynh, Minh My Nguyen, Thanh Phong Pham, Tien Nam Nguyen, Lam Tien Bui, Tuong Nguyen Huynh, Duc Dung Nguyen and Thanh Hung Vu

Section 4

TOPIC: IMAGE AND NATURAL LANGUAGE PROCESSING (2)

Location : Room A113

09:10-09:30

Extending OCR model for font and style classification.

Nguyen Dinh Vu, Dong Nguyen Tien, Tuan Dang Minh, Lam Nguyen Vu Son and Ngoc Ninh Thi Anh

09:30-09:50

Information Technology Skills Extractor for Job Descriptions in vku-ITSkills Dataset using Natural Language Processing

Minh N. H. Nguyen, Ket Doan Nguyen, Quoc Huy Pham, Xuan Loc Kieu, Nguyen Vu Hoang, Huy Nguyen and Cong Phap Huynh

09:50-10:10

Comprehensive study on Semantic Segmentation of Ovarian Tumors from Ultrasound Images

Thi-Loan Pham, Van-Hung Le, Thanh-Hai Tran and Duy Hai Vu



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10:10-10:30

VR VanMieu: The interactively virtual Temple of Literature

Van Dinh Ngoc, Giang Ngo Hong and Chau Ma Thi

10:30-10:50

Neural Sequence Labeling based Sentence Segmentation for Myanmar Language

Ye Kyaw Thu, Thura Aung and Thepchai Supnithi

10:50-11:10

A Compact Version of EfficientNet

Van-Thanh Hoang, Tu Minh Phuong and Kang-Hyun Jo

11:10-11:30

Using Deep Learning for Obscene Language Detection in Vietnamese Social Media

Dai Tho Dang, Xuan Thang Tran, Cong Phap Huynh and Ngoc Thanh Nguyen

Section 5

TOPIC: NETWORK AND COMMUNICATIONS

Location : Room A114

09:10-09:30

A New Approach for Enhancing MVDR Beamformer's Performance

Trong The Quan, Nguyen Ba Huy, Pham Tuan Anh and Tho Dang Dai

09:30-09:50

A Spectral Mask - Based on Method for Applying into Generalized Sidelobe Canceller Beamformer

Trong The Quan, Nguyen Ba Huy and Pham Tuan Anh

09:50-10:10

An integrated model of placement optimization and redundancy elimination in RFID network planning

Van Hoa Le, Thanh Chuong Dang, Hong Quoc Nguyen and Viet Minh Nhat Vo

Section 6

TOPIC 6.1: SOFTWARE ENGINEERING AND INFORMATION SYSTEM

Location : Room A211

09:10-09:30

Conjunctive Query Based Constraint Solving For Feature Model Configuration

Alexander Felfernig, Viet-Man Le and Sebastian Lubos

09:30-09:50

ESpin: Analyzing Event-Driven Systems in Model Checking

Nhat-Hoa Tran

09:50-10:10

Blockchain Solution For Electronic Health Records Using Hyperledger Fabric

Vu-Thu-Nguyet Pham, Thanh-Phong Ho, Quang-Chung Nguyen, Van-To-Thanh Nguyen and Quang-Vu Nguyen

10:10-10:30

Test Criteria for Context-aware Mobile Applications

Thi Thanh Binh Le, Oum-El-Kheir Aktouf, Ioannis Parissis and Thanh Binh Nguyen

TOPIC 6.2: DIGITAL ECONOMY

Location : Room A211

10:30-10:50

Emotional intelligence and Social media site experiences' effects on University Choice Behavior: The Mediating role of Brand Attitude

Thi Thanh Minh Dang, Phuoc Cuu Long Le and Thi Thuy Trinh Tran

13:00-18:00

HOIAN CITY TOUR – INTERNATIONAL

THE END



Lecture Area A

Zone K

CITA 2023

CITA (Conference on Information Technology and its Applications) is an annual scientific conference on information technology and its applications in all fields. The main objective of the conference is to create a forum to gather and connect Vietnamese and international researchers, scientists and specialists to participate in the fields of information technology and its applications.