

KSE-2017 PROGRAM

Hue city, Vietnam, October 19-21, 2017

Conference Day 1 – October 19, 2017 (Thursday)		
08:00 – 16:00	Registration Location: Main Office Building, Hue University of Education, 34 Le Loi street	
08:30 – 08:45	Opening Ceremony Location: Conference Hall, Main Office Building, Hue University of Education	
	Welcome speech by the President of Hue University	
	General Chairs remarks	
	Program Chairs remarks	
08:45 – 10:00	Keynote Talk 1: Bidirectional Programming and Software Adaptation: Towards A Happy Marriage Speaker: Professor Zhenjiang Hu Chair: Le-Minh Nguyen and Bao-Son Pham Location: Conference Hall, Main Office Building, Hue University of Education	
10:00 – 10:10	<i>Move to Century Riverside Hotel, 49 Le Loi street (5-minute walk)</i>	
10:10 – 10:25	<i>Coffee Break</i>	
10:25–12:05	Session Thu-1A Data Mining – Methods and Applications Chairs: Xuan-Hieu Phan and Tuong-Tri Nguyen Location: Imperial Room	Session Thu-1B Natural Language Processing and Text Mining – 1 Chairs: Hong-Phuong Le and Quang-Nhat-Minh Pham Location: VIP 3 Room
10:25 – 10:50	<i>Distributed Algorithm for Sequential Pattern Mining on A Large Sequence Dataset</i> Tho Hoang, Bac Le, and Thai Tran	<i>Examining the Text-length Factor in Evaluating the Readability of Literary Texts in Vietnamese Textbooks</i> Vinh Luong, Diep Nguyen, and Dien Dinh

10:50 – 11:15	<i>Density-based Clustering with Side Information and Active Learning</i> Vu Vu and Quan Do	<i>Construction of a Word Similarity Dataset and Evaluation of Word Similarity Techniques for Vietnamese</i> Tan Bui, Thai Nguyen, and Lam Pham
11:15 – 11:40	<i>Graph-based Visual Instance Mining with Geometric Matching and Nearest Candidates Selection</i> Bao Nguyen, Khang Nguyen, Cuong Mai, and Duy Le	<i>Dialog Act Segmentation from Vietnamese Human-Human Conversational Texts</i> Lan Ngo, Linh Pham, Son Cao, Hieu Phan, and Son Pham
11:40 – 12:05	<i>Minimizing the Spread of Misinformation on Online Social Networks with Time and Budget Constraint</i> Manh Vu and Huan Hoang	<i>WikTDV: Data Extraction and Vector Representation Resource for Wiktionary Senses</i> Danilo Carvalho and Minh Nguyen
12:05 – 13:30	<i>Lunch</i>	
13:30 – 14:45	Keynote Talk 2: Juris-Informatics and PROlog-based LEGal reasoning system: PROLEG Speaker: Professor Ken Satoh Chair: Thanh-Thuy Nguyen and Duc-Hau Le Location: Pagoda Conference Hall, Century Riverside Hotel	
14:45 – 15:00	<i>Coffee Break</i>	
15:00 – 17:05	Session Thu-2A Natural Language Processing and Text Mining - 2 Chairs: Minh-Phuong Tu and Xuan-Bach Ngo Location: Imperial Room	Session Thu-2B Knowledge, Data, and Soft Computing Chairs: Van-Cuong Pham and Quoc-Long Tran Location: VIP 3 Room
15:00 – 15:25	<i>Multi-Channel LSTM-CNN Model for Vietnamese Sentiment Analysis</i> Quan Vo, Tien Nguyen, Bac Le, and Minh Nguyen	<i>Fuzzy Relational Compositions Based on Grouping Features</i> Nhung Cao, Martin Stepnicka, Michal Burda, and Ales Dolny
15:25 – 15:50	<i>An Empirical Study of Discriminative Sequence Labeling Models for Vietnamese Text Processing</i> Phuong Le, Minh Pham, Hoang Pham, Anh Tran, and Minh Nguyen	<i>MergedGrid – An Algorithm for Continuous Constrained K Nearest Neighbor Monitoring</i> Bao Nguyen, Tri Nguyen, and Tien Dinh
15:50 – 16:15	<i>Intent Extraction from Social Media Texts Using Sequential Segmentation and Deep Learning Models</i> Le Luong, Son Cao, Thang Le, and Hieu Phan	<i>Some Observations on Representation of Dependency Degree K</i> Son Nguyen, Son Nguyen, Giang Nguyen, and Thuy Nguyen

16:15– 16:40	<p><i>Enhanced Semantic Refinement Gate for RNN-based Neural Language Generator</i> Khanh Tran, Tao Nguyen, and Minh Nguyen</p>	<p><i>Inconsistency Measures for Probabilistic Knowledge Base</i> Tham Nguyen and Hieu Tran</p>
16:40 – 17:05	<p><i>Improving Chemical-induced Disease Relation Extraction with Learned Features Based on Convolutional Neural Network</i> Quynh Le, Cat Can, Hai Dang, Vu Tran, Thuy Ha, and Nigel Collier</p>	<p><i>Sequential Ensemble Method for Unsupervised Anomaly Detection</i> Van Nguyen, Thanh Nguyen, and Uy Nguyen</p>

Conference Day 2 – October 20, 2017 (Friday)

08:00 – 16:00	Registration Location: Century Riverside Hotel	
08:30 – 09:45	Keynote Talk 3: SMT solver over reals, raSAT and beyond Speaker: Professor Mizuhito Ogawa Chair: Minh-Phuong Tu and Xuan-Hieu Phan Location: Pagoda Conference Hall, Century Riverside Hotel	
09:45 – 10:00	<i>Coffee Break</i>	
10:00 – 12:05	Session Fri-1A Learning, Prediction, and Recognition Chairs: Quoc-Long Tran and Hong-Phuong Le Location: Imperial Room	Session Fri-1B Software, Communications, and Security Chairs: Quang-Hung Bui and Viet-Minh-Nhat Vo Location: VIP 3 Room
10:00 – 10:25	<i>A Comprehensive Study on Predicting River Runoff</i> Thi Tran, Ngo Giang, Hieu Duong, Hien Nguyen, Hoai Tran, and Nghi Vu	<i>A Tool Support to Checking Consistency in Model Refactoring</i> Huong Dao, Binh Trinh, and Thuan Truong
10:25 – 10:50	<i>Vietnamese Food Recognition Using Convolutional Neural Networks</i> Phat Thai, Tien Dang, Quang Pham, Nguyen Pham, and Binh Nguyen	<i>Generative Software Module Development: A Domain-Driven Design Perspective</i> Duc Le, Hanh Dang, and Ha Nguyen
10:50 – 11:15	<i>Predicting Students' Performance Based on Learning Style by Using Artificial Neural Networks</i> Binh Hoang and Duy Bui	<i>DF-SWin: Sliding Windows for Multi-Sensor Data Fusion in Wireless Sensor Networks</i> Huy Duong and Viet Nguyen
11:15 – 11:40	<i>e-Shoes: Smart Shoes for Unobtrusive Human Activity Recognition</i> Cuong Pham, Diep Nguyen, and Phuong Tu	<i>Low Complexity Approaches of K-Best MIMO Decoder for 802.11ac WLAN System</i> Khai Lam, Manh Vu, and Tien Nguyen
11:40 – 12:05	<i>A New Fall Detection System on Android Smartphone</i> Anh Tran and Thu Ngo	<i>On The Usage of Character Distribution for Detection of Web Attacks</i> Thanh Le and Tien Phan

12:05 – 13:30	<i>Lunch</i>	
13:30 – 14:45	<p style="text-align: center;">Session Fri-2A Bioinformatics and Computational Biology Chairs: Duc-Hau Le and Thi-Lan-Anh Nguyen Location: Imperial Room</p> <p>13:30 – 13:55 <i>Stratifying Cancer Patients based on Multiple Kernel Learning and Dimensionality Reduction</i> Trung Giang, Phuong Nguyen, and Hung Tran</p> <p>13:55 – 14:20 <i>Genomedics: Whole Exome Analysis System for Clinical Studies</i> Vinh Le, Canh Nguyen, Thang Bui, Hang Do, Chinh Duong, Hoang Tran, Minh Le, and Linh Pham</p> <p>14:20 – 14:45 <i>An Ensemble Learning-based Method for Prediction of Novel Disease-microRNA Associations</i> Hau Le, Huy Pham, and Thuy Nguyen</p>	<p style="text-align: center;">Session Fri-2B Operations Research and Optimization Chairs: Van-Cuong Pham and Quang-Nhat-Minh Pham Location: VIP 3 Room</p> <p>13:30 – 13:55 <i>Prediction-based Optimization for Online People and Parcels Share a Ride Taxis</i> Son Nguyen, Behrouz Babaki, Anton Dries, Dung Pham, and Hoai Xuan</p> <p>13:55 – 14:20 <i>Optimizing Parameters of The Shunt Active Power Filter Using Genetic Algorithm</i> Hien Phan, Huyen Dang, An Nguyen, and Cuong Nguyen</p> <p>14:20 – 14:45 <i>The Influence of Knowledge Sharing Behavior and Transactive Memory Systems on Innovative Work Behavior: A Conceptual Model</i> Dong Phung, Igor Hawryszkiewicz, and Minh Ha</p>
14:45 – 15:00	<i>Coffee Break</i>	
15:00 – 16:40	<p style="text-align: center;">Session Fri-3A Intelligent Software and Knowledge Representation Chairs: Van-Nhon Do and Dinh-Hien Nguyen Location: Imperial Room</p> <p>15:00 – 15:25 <i>Can You Hear The Shape of a Drum? – Web-Based Knowledge Acquisition to Solve Inverse Problems</i> Rao Vemuri</p> <p>15:25 – 15:50 <i>A Potential Approach for Emotion Prediction Using Heart Rate Signals</i> Nam Nguyen, Nhan Nguyen, My-Huynh Tran, and Binh Nguyen</p>	<p style="text-align: center;">Session Fri-3B Legal Text Processing Chairs: Makoto Nakamura and Xuan-Bach Ngo Location: VIP 3 Room</p> <p>15:00 – 15:25 <i>Designing An Annotation Scheme for Summarizing Japanese Judgment Documents</i> Hiroaki Yamada, Simone Teufel, and Takenobu Tokunaga</p> <p>15:25 – 15:50 <i>Search Method for Ordinances and Rules in Japanese Local Governments Based on Distributed Representation</i> Kazuya Fujioka, Makoto Nakamura, Yasuhiro Ogawa, Tomohiro Ohno, and Katsuhiko Toyama</p>

15:50 – 16:15	<i>Toward Integrating Social Networks into Intelligent Tutoring Systems</i> Nhan Huynh, Thap Le, and Nghe Nguyen	<i>Question Analysis for Vietnamese Legal Question Answering</i> Bach Ngo, Cham Le, Thien Tran, and Phuong Tu
16:15 – 16:40	<i>Advertisement Image Classification Using Convolutional Neural Network</i> An Vo, Hai Tran, and Thai Le	<i>A Knowledge Representation for Vietnamese Legal Document System</i> Thanh Nguyen, Ha Nguyen, and Anh Vu
18:00 – 20:30	Banquet Location: Riverside Restaurant, Century Riverside Hotel	

Conference Day 3 – October 21, 2017 (Saturday)

08:00 – 09:00	<p align="center">Registration Location: Century Riverside Hotel</p>	
08:30 – 09:45	<p align="center">Session Sat-1A Computer Vision and Pattern Recognition - 1 Chairs: Thanh-Ha Le and Tuong-Tri Nguyen Location: Imperial Room</p> <p>08:30 – 08:55 <i>Facial Expression Recognition Using Deep Convolutional Neural Networks</i> Sang Dinh, Dat Nguyen, and Thuan Do</p> <p>08:55 – 09:20 <i>Plant Identification Using Score-based Fusion of Multi-Organ Images</i> Binh Do, Hoang Nguyen, Nhan Nguyen, Hai Vu, Hai Tran, and Lan Le</p> <p>09:20 – 09:45 <i>A New Approach for Traffic-Sign Recognition Using Sparse Representation over Dictionary of Local Descriptors</i> Ha Do, Thang Nguyen, Dat Nguyen, and Tuan Le</p>	<p align="center">Session Sat-1B Spatial Data Science and Technology - 1 Chairs: Thi-Nhat-Thanh Nguyen and Viet-Hai Ha Location: VIP 3 Room</p> <p><i>Paddy Rice Mapping in Red River Delta Region Using Landsat 8 Images: Preliminary Results</i> Man Chuc, Anh Nguyen, Thuy Nguyen, Hung Bui, and Thanh Nguyen</p> <p><i>A Novel Approach Based on Deep Learning Techniques and UAVs to Yield Assessment of Paddy Fields</i> Tri Nguyen, Hieu Duong, Hoai Tran, Hoa Tran, Vu Nguyen, Toan Nguyen, and Vaclav Snasel</p> <p><i>TMACT: A Thematic Map Automatically Creating Tool for Maintaining WebGIS Systems</i> Thang Luu, Thanh Nguyen, Thuy Nguyen, and Hung Bui</p>
09:45 – 10:00	<p align="center"><i>Coffee Break</i></p>	
10:00 – 11:15	<p align="center">Session Sat-2A Computer Vision and Pattern Recognition - 2 Chairs: Le-Minh Nguyen and Dang-Binh Nguyen Location: Imperial Room</p> <p>10:00 – 10:25 <i>Multi-Column CNNs for Skeleton Based Human Gesture Recognition</i> Hai Nguyen, Nam Ly, Huong Truong, and Dung Nguyen</p> <p>10:25 – 10:50 <i>Single View Image Based - 3D Human Pose Reconstruction</i> Kien Hoang, Hung Nguyen, Chau Ma, Duyen Ngo, and Thanh</p>	<p align="center">Session Sat-2B Spatial Data Science and Technology - 2 Chairs: Quang-Hung Bui and Thanh-Hieu Le Location: VIP 3 Room</p> <p><i>Looking beyond Databases: Cyberinfrastructure That Supports Data-Sharing and Collaborations</i> Tho Nguyen</p> <p><i>Anomaly Color Detection on UAV Images for Search and Rescue Works</i></p>

10:50 – 11:15	Nguyen <i>Facial Smile Detection Using Convolutional Neural Networks</i> Sang Dinh, Cuong Le, and Thuan Do	Hoai Dao and Phuong Nguyen <i>Development of Virtual Campus Using GIS Data and 3D GIS Technology: A Case Study for Vietnam National University, Hanoi</i> Anh Phan, Chuc Man, Hung Bui, and Thanh Nguyen
13:30 – 17:30	Hue City Tours	