The 11th International Symposium on Information and Communication Technology Program

1 December 2022 Hanoi University of Science and Technology, Hanoi, Vietnam					
8:30	Registration Lecture Hall, 3 rd floor, B1 Building, Hanoi University of Science and Technology				
9:00-9:15	Opening Lecture Hall, 3 rd floor, B1 Building, Hanoi University of Science and Technology				
9:15-9:45	Keynote Data to Knowledge to Automation: How Can AI Boost Software Quality? David Lo, Singapore Management University, Singapore Chair: Ho Tu Bao				
9.45-10.15	Keynote Implicitly-defined prediction rules in deep learning Laurent El Ghaoui, VIN University, Vietnam; UC Berkeley, United States Chair: Jeff Edmons				
10:15-10:30	Photo session				
10:30-10:45	Coffee Break				
	Lecture Hall, 3 rd floor, B1 Building AI Foundation and Big Data Chair: Kyungbaek Kim, Than Quang Khoat	Room 404, 4 th floor, B1 Building Image and Natural Language Processing Chair: Akiyo Nadamoto, Le Thi Lan	Room 403, 4 th floor, B1 Building Blockchain Chair: David Tran, Nguyen Binh Minh		
10:45-11:05	An Vo, Tan Ngoc Pham, Van Bich Nguyen and Ngoc Hoang Luong Training-Free Multi-Objective and Many-Objective Evolutionary Neural Architecture Search with Synaptic Flow	Minh-Hieu Huynh, Bao Bui-Xuan and Minh-Triet Tran Sports Visual Data Analysis with Deep Vision	Ta Minh Thanh Blockmarking: Hybrid Model of Blockchain and Watermarking Technique for Copyright Protection		
11:05-11:25	Luat Le Ba, Bach Do Viet, Hoang Ha Minh and Giang Pham Hoang Optimizing energy generation in short-term hydro unit commitment using efficiency points	Quang-Tien Pham, Duc-Anh Nguyen, Tien-Thanh Nguyen, Thanh Nam Nguyen, Duy-Tung Nguyen, Dinh-Tan Pham, Thanh Hai Tran, Thi-Lan Le and Hai Vu A study on skeleton-based action recognition and its application to physical exercise recognition	Ba-Lam Do, Hoang-Nam Dinh, Van-Thanh Nguyen, Manh-Hung Tran, Thanh-Long Le and Viet-Thang Nghiem B4E: A System for Creating and Validating Digital Credentials using Remote Signing and Blockchain		
11:25-11:45	Yusuke Kimura, Takahiro Komamizu and Kenji Hatano Multi-task Learning-based Text Classification with Subword-Phrase Extraction	Hai Vu, Cong Nguyen Xuan, Minh Nghia Le, Duc Anh Nguyen and Viet Hang Dao A robust and high-performance neural network for classifying anatomical landmarks from Upper GastroIntestinal Endoscopy Images	Thanh-Chung Dao, Le-Duc Pham, Tien-Thao Nguyen, Ba-Lam Do and Binh Minh Nguyen V-Endpoint: Decentralized Endpoint for Blockchain Applications Based on Spark and Byzantine Consensus		
11:45-12:05	The Duy Phan, Tran Duc Luong, Nguyen Hoang Quoc An, Quyen Nguyen Huu, Hoàng Khoa Nghi and Van-Hau Pham Leveraging Reinforcement Learning and Generative Adversarial Networks to Craft Mutants of Windows Malware against Black-box Malware Detectors	Anh Le, Quang Uy Nguyen, Ngoc Tran Nguyen, Hai-Hong Phan and Thi Huong Chu An integration of Pseudo Anomalies and Memory Augmented Autoencoder for Video Anomaly Detection	Phuong N. H. Pham, Quy T. N. Co, Anh N. Su, Phuong T. Pham, Canh V. Pham and Vaclav Snasel k-Submodular Cover Problem: Application and Algorithms		
12:05-13:00	Lunch ·	10 th floor, BKAI, B1 Building, Hanoi University of Science and Techr	nology		
	Lecture Hall, 3 rd floor, B1 Building AI Foundation and Big Data Chair: Tadahiko Kumamoto, Dang Tuan Linh	Room 404, 4 th floor, B1 Building Image and Natural Language Processing Chair: Ngo Thanh Trung, Vu Hai			
13:00-13:20	Thai Bao Tran and Ngoc Hoang Luong Benchmarking Gradient Estimation Mechanisms in Evolution Strategies for Solving Black-Box Optimization Functions and Reinforcement Learning Problems	Quang Tien Duong, Duc Huy Nguyen, Bao Thang Ta, Nhat Minh Le and Van Hai Do Improving Self-supervised Audio Representation based on Contrastive Learning with Conformer Encoder			
13:20-13:40	Anh Son Ta and Ngoc Bach Pham Solving resource forecasting in WiFi Network by NeuralProphet	Hanh Pham Van and Huong Le Thanh Improving Khmer-Vietnamese Machine Translation with Data Augmentation methods			
13:40-14:00	Asad Khattak and Adil Khan Cross-Location Activity Recognition using Adversarial Learning	Namal Rathnayake, Tuan Linh Dang and Yukinobu Hoshino Designing and Implementation of Novel Ensemble model based on ANFIS and Gradient Boosting methods for Hand Gestures Classification	Techshow B1 Building		
14:00-14:20	Khoa Nguyen, Nghia Vu, Dung Nguyen and Khoat Than Random Generative Adversarial Networks	Huu Hiep Nguyen, Ngoc Dung Nguyen and Khac-Hoai Nam Bui Intent Detection and Slot Filling with Low Resource and Domain Similarity			
14:30-15:00	Tutorial 1: Building Better Models Faster: A Charming Tool for Versioning Data and Experiments Tung Dao, Shopee, Singapore Lecture Hall, 3 rd floor, B1 Building, Hanoi University of Science and Technology	Tutorial 2: High Quality Paper Writing – persuasive writing with evidence Shui Yu, University of Technology Sydney, Australia Room 404, 4th floor, B1 Building, Hanoi University of Science and Technology			
15:30		Transfer to Ha Long Bay			
2 December					
8:30	Legend Halong, Ha Long Bay Registration 2 nd floor, Wyndham Legend Halong				
8:30-9:00	Keynote Combating Deepfakes. Recent Approaches and Challenges Nasir Memon, New York University, United States Chair: David Tran Diamond Ballroom 1				
9:00-9:30	Keynote Boosting Image Retrieval by Diffusion Shin'ichi Satoh, National Institute of Informatics, Japan Chair: Nguyen Hung Son Diamond Ballroom 1				

9:30-9:45	Coffee Break				
	Diamond Ballroom 1 AI Foundation and Big Data Chair: Akiyo Nadamoto, Nguyen Phi Le	Diamond 2 Image and Natural Language Processing Chair: Takahiro Komamizu			
9:45-10:05	Thu Hang Phung, Duc Long Nguyen, Viet Hung Vu, Thanh Trung Huynh, Thanh Hung Nguyen and Phi Le Nguyen Unsupervised Air Quality Interpolation with Attentive Graph Neural Network	Tri Le, Nham Huynh-Duc, Chung Thai Nguyen and Minh-Triet Tran Motion Embedded Image: A combination of spatial and temporal features for Action Recognition			
10:05-10:25	Kazuhiro Ito, Taichi Murayama, Shuntaro Yada, Shoko Wakamiya and Eiji Aramaki Identifying A Target Scope of Complaints on Social Media	Tuan Linh Dang, Sy Dat Tran, Thuy Ha Hoang, Trong Nghia Nguyen and Tuan Minh Vu Prototype of a parking system with path recommendation			
10:25-10:45	Dao Hoang Long, Nguyen Hong Ngoc, Nguyen Thi My Binh, Huynh Thi Thanh Binh and Nguyen Khanh Phuong Investigate Evolutionary Strategies for Black-box Attacks to Deepfake Forensic Systems	Sang Dinh Viet and Quang Nguyen Duy Incremental Boundary Refinement using Self Axial Reverse Attention and Uncertainty-aware Gate for Colon Polyp Segmentation	POSTED SHOW		
10:45-11:05	Bui Thi-Mai-Anh, Anh Ho and Nguyen Nhat Hai Combining Deep Learning and Kernel PCA for Software Defect Prediction	Cong Tran, Khanh Nguyen-Trong, Cuong Pham, Dat Tran and Tien Nguyen-Thi- Tan Improving text recognition by combining visual and linguistic features of text	POSTER SHOW		
11:05-11:20	Binh Nguyen Thanh, Minh Nguyen N. H., Hanh Le Thi My and Binh Nguyen Thanh ml-Codesmell: A code smell prediction dataset for machine learning approaches	Duc Minh Le, Linh Quang Tran, Hong Thi Le, Hai Van-Anh Tong and Anh Phuong Nguyen Generating Multi-platform Single Page Applications: A Hierarchical Domain- Driven Design Approach			
11:20-11:40	Van-Quyet Nguyen, Van-Hau Nguyen, Minh-Quy Nguyen, Quyet-Thang Huynh and Kyungbaek Kim Big Data Knowledge Acquisition Platform for Smart Farming	Thi Huong Giang Vu and Thi Hong Anh Nguyen An improved NSGA-II based-on project scheduling principles for workforce scheduling optimization in warehouse			
11:40-12:00	Linh Trinh and Bach Ha An incorporation of deep temporal convolutional networks with hidden markov models post-processing for sensor-based human activity recognition	Anna Scius-Bertrand, Andreas Fischer and Marc Bui Retrieving Keywords in Historical Vietnamese Stele Images Without Human Annotations			
12:00-13:30		Lunch - Blue Bay Restaurant, 1 st floor			
13:30-14:00	Keynote Path disruption games in networks Mourad Baiou, LIMOS lab, FRANCE Chair: Nguyen Viet Hung Diamond Ballroom 1				
14:00-14:30	Keynote Metaverse: Towards the next-generation immersive internet Long Bao Le, University of Quebec, Canada Chair: Abdelhamid Mellouk Diamond Ballroom 1				
		Diamond Ballroom 1			
14:30-14:45		Diamond Ballroom 1 Coffee Break			
14:30-14:45	Diamond Ballroom 1 Poster Session 10 mins oral presentation + poster prerentation Chair: Tran Hai Anh. Hironori Nakaio				
14:30-14:45 14:45-15:05	Poster Session	Coffee Break Diamond 2 Network Communication and Security			
14:45-15:05	Poster Session 10 mins oral presentation + poster prerentation Chair: Tran Hai Anh, Hironori Nakajo - Nguyen Tu, Do Tri, Le Khanh, Go Seungkyu, Na Sunghyun, Kim Dukyun and Tran Duc A LSTM-based approach for Predicting Resource Utilization in Cloud Computing - Thanh Nguyen Tien and Khanh-Van Nguyen Decision graph for timely delivery of multi-AGVs in healthcare environment - Luyen Ngan Van, Anh Hoang Tuan, Duy Phan The, Tan-Khoa Vo and Van-Hau Pham A Privacy-Preserving Approach For Building Learning Models in Smart Healthcare using Blockchain and Federated Learning - Nguyen Bac Trinh, The Duy Phan and Van-Hau Pham	Coffee Break Diamond 2 Network Communication and Security Chair: Sami Souhi, Trinh Van Chien Hien Do Thi Thu, The Duy Phan, Hao Le Anh, Lan Nguyen Duy, Khoa Nghi Hoang and Van-Hau Pham A Method of Mutating Windows Malwares using Reinforcement Learning with			
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16:25-16:45	- Anton Agajonov and Andrew Ponomarev Localization of Ontology Concepts in Deep Convolutional Neural Networks - Futo Yamamoto, Tadahiko Kumamoto, Yu Suzuki and Akiyo Nadamoto Methods of Calculating Usefulness Ratings of Behavioral Facilitation Tweets in Disaster Situations - Namal Rathnayake, Tuan Linh Dang and Yukinobu Hoshino Designing and Implementation of Novel Ensemble model based on ANFIS and Gradient Boosting methods for Hand Gestures Classification	Minh Hai Vu, Giang T. T. Nguyen, Hai Dang Tran, Thanh Trung Nguyen, Phan Thuan Do, Phi Le Nguyen and Kien Nguyen An Empirical Study of MPQUIC Schedulers in Mobile Wireless Networks	
16:45-17:05	- Duc-Anh Nguyen, Trong-Dat Nguyen, Phuong-Hanh Du, Nam-Hai Dao and Hoa Nguyen Ngoc EnsFace: An Ensemble Method of Deep Convolutional Neural Networks with Novel Effective Loss Functions for Face Recognition - Nhu Khoa Nguyen, Emanuela Boros, Gaël Lejeune, Antoine Doucet and Thierry Delahaut Utilizing Keywords Evolution in Context for Emerging Trend Detection in Scientific Publications	Papa Bara Diakhate, Tran-Tuan Chu, Mohamed Aymen Labiod, Brice Augustin, Hai-Anh Tran and Abdelhamid Mellouk Experimental Evaluation of Multiple Multipath Schedulers over Various Urban Mobile Environments	
17:05-17:25	- Trinh Van Chien and Thuong Nguyen Canh Error Resilient Deep Compressive Sensing Van Duc Khuat, Tuan Anh Tran, Minh Tuan Nguyen and Hai-Chau Le A Study on Machine Learning Based Gene Selection for Pediatric Sepsis Classification - Cong Phuoc Phan Covid-19 Deep Clustering: A Covid-19 Ontology construction method with research documents clustering and dynamic medical labeling	Hoang V.Vo, Duong H.Nguyen, Tuyen T.Nguyen, Hoa N.Nguyen and Duan V.Nguyen Leveraging AI-Driven Realtime Intrusion Detection by Using WGAN and XGBoost	
18:30	Gala dinner Diamond Ballroom 1 Wyndham Legend Halong		

3 December 2022 Wyndham hotel, Ha Long Bay

14:00 Transfer to Hanoi