

# SoICT 2016 TECHNICAL PROGRAM

Thursday 8th December 2016

8:00	<b>REGISTRATION</b> Venue: Sunflower room, first floor, Rex Hotel, 141 Nguyen Hue Blvd, District 1, Ho Chi Minh City	
8:30	<b>CONFERENCE OPENING</b> Venue: Sunflower room, first floor, Rex Hotel	
9:00	<b>SoICT KEYNOTE I - Sunflower room</b> CHAIR: Tam Vu (University of Colorado Denver, USA) <b>Radio Spectrum Research for Emerging IoT and 5G Networks: Applications to Smart Buildings and Smart Cities</b> <i>Invited speaker: Prof. Eryk Dutkiewicz</i> <i>School of Computing and Communications, University of Technology Sydney, Australia</i>	
9:45	<b>GROUP PHOTO</b>	
9:50	<b>SoICT INVITED TALK - Sunflower room</b> CHAIR: Xuan Hoai Nguyen (Hanoi University, Viet Nam) <b>Pediatric Mobile Healthcare: Opportunities, Challenges, and Solutions</b> <i>Invited speaker: Prof. Tam Vu</i> <i>Director, Mobile and Networked Systems Lab, University of Colorado Denver, USA</i>	
10:35	<b>COFFEE BREAK</b>	
	<b>Session 3A: Wireless Sensor Networks - Sunflower room 1</b> CHAIR: Eryk Dutkiewicz (University of Technology Sydney, Australia)	<b>Session 3B: Data analytics I - Sunflower room 2</b> CHAIR: Sergey Dvoenko (Tula State University, Russia)
10:55	<b>Modeling Time-Varying Topologies of Duty-Cycled Wireless Sensor Networks</b> Van Ho (Hoa Sen University, Viet Nam) Ioanis Nikolaidis (University of Alberta, Canada)	<b>Local Search Approach For The Pairwise Constrained Clustering Problem</b> Khanh Hiep Tran (FPT University, Viet Nam) Minh Duc Nguyen (FPT University, Viet Nam) Quoc Trung Bui (FPT Technology Research Institute, Viet Nam)
11:15	<b>A novel energy-balanced unequal fuzzy clustering algorithm for 3D Wireless Sensor Networks</b> Dang Thanh Hai (University of Dalat, Viet Nam) Nguyen Thi Tam (VNU University of Science Ha Noi, Viet Nam) Le Hoang Son (VNU University of Science Ha Noi, Viet Nam) Le Trong Vinh (VNU University of Science Ha Noi, Viet Nam)	<b>An Efficient Implementation of Anytime K-medoids Clustering for Time Series under Dynamic Time</b> Van The Huy (Faculty of Computer Science and Engineering, Ho Chi Minh City University of Technology, Viet Nam) Duong Tuan Anh (Faculty of Computer Science and Engineering, Ho Chi Minh City University of Technology, Viet Nam)
11:35	<b>Entropy Correlation and Its Impact on Routing with Compression in Wireless Sensor Network</b> Nga Nguyen Thi Thanh (Hanoi University of Science and Technology, Viet Nam) Khanh Nguyen Kim (Hanoi University of Science and Technology, Viet Nam) Son Ngo Hong (Hanoi University of Science and Technology, Viet Nam)	<b>Some Improvements for Time Series Subsequence Join based on Pearson Correlation Coefficients</b> Van Do Luong (Ho Chi Minh City University of Technology, Viet Nam) Tuan Anh Duong (Ho Chi Minh City University of Technology, Viet Nam)
11:55	<b>An efficient geographic algorithm for routing in the proximity of a large hole in Wireless Sensor</b> Huy Vu (Hanoi University of Science and Technology, Viet Nam) Tien D. Nguyen (People's Police University of Technology and Logistics, Viet Nam) Chi Q. Nguyen (Posts and Telecommunications Institute of Technology, Viet Nam) Van K. Nguyen (Hanoi University of Science and Technology, Viet Nam)	<b>A Recovering of Violated Metric in Machine Learning</b> Sergey Dvoenko (Tula State University, Russia) Denis Pshenichny (Tula State University, Russia)
12:15	<b>LUNCH</b> Cung Dinh Restaurant, Ground floor Rex hotel	
13:30	<b>SoICT KEYNOTE II - Sunflower room</b> CHAIR: Michel Toulouse (Vietnamese-German University, Viet Nam) <b>Quantitative Approaches for Road Maintenance</b> <i>Invited Speaker: Prof. André Langevin</i> <i>École Polytechnique de Montréal</i> <i>Center for Research in Enterprise Networks, Logistics and Transportation, Montréal, Canada.</i>	
	<b>Session 5A: Networks &amp; Communication systems - Sunflower room 1</b> CHAIR: The Ngoc Dang (Posts and Telecommunications Institute of Technology, Viet Nam)	<b>Session 5B: Data analytics II - Sunflower room 2</b> CHAIR: Sergey Dvoenko (Tula State University, Russia)
14:15	<b>A simple performance analysis of IM-DD OFDM WDM systems in long range PON application</b> Trang Ngo (Posts and Telecommunications Institute of Technology, Viet Nam) Nhan D. Nguyen (Posts and Telecommunications Institute of Technology, Viet Nam) Hieu T. Bui (Posts and Telecommunications Institute of Technology, Viet Nam)	<b>iRadviz: An Inversion Radviz for Class Visualization of Multivariate Data Visualization</b> Van Long Tran (University of Transport and Communications, Hanoi, Viet Nam)

14:35	<b>Analyzing the Multi hop Connectivity Performance in Brownian Underwater Wireless Sensor Networks</b> Hoang Trong Minh (Posts and Telecoms Institute of Technology, Viet Nam) Lang Tuan Nguyen (Posts and Telecoms Institute of Technology, Viet Nam) Nguyen Thi (Thevoice of Viet Nam, Viet Nam)	<b>Mining Closed High-Utility Itemsets from Uncertain Databases</b> Nguyen Bui (University of Information Technology, VNU-HCM, Viet Nam) Bay Vo (HUTECH, Viet Nam) Van-Nam Huynh (Japan Advanced Institute of Science and Technology, Japan) Chun-Wei Lin (Harbin Institute of Technology Shenzhen Graduate School, Shenzhen, China) Loan Nguyen (Nguyen Tat Thanh University, Viet Nam)
14:55	<b>A Diagonal Cabling Approach to Datacenter and HPC Systems</b> Truong Thao Nguyen (SOKENDAI (The Graduate University for Advanced Studies), Japan) Ikki Fujiwara (National Institute of Informatics, Japan) Michihiro Koibuchi (National Institute of Informatics / SOKENDAI, Japan)	<b>Stock Market Analysis Using Clustering Techniques: The Impact of Foreign Ownership on Stock Volatility in</b> Van-Dai Ta (National Taipei University of Technology, Taiwan) Chuan-Ming Liu (National Taipei University of Technology, Taiwan)
15:15	<b>COFFEE BREAK</b>	
	<b>Session 6A: Security - Sunflower room 1</b> CHAIR: John K. Zao (National Chiao-Tung University, Taiwan)	<b>Session 6B: Natural Language Processing - Sunflower room 2</b> CHAIR: Xuan Hoai Nguyen (Hanoi University, Viet Nam)
15:35	<b>Robust Consensus-Based Network Intrusion Detection in Presence of Byzantine Attacks</b> Michel Toulouse (Vietnamese-German University, Viet Nam) Hai Le (Vietnamese-German University, Viet Nam) Cao Vien Phung (Vietnamese-German University, Viet Nam) Denis Hock (Frankfurt University of Applied Sciences, Germany)	<b>Effective Attention-based Neural Architectures for Sentence Compression with Bidirectional Long Short-Term</b> Nhi-Thao Tran (University of Science, Viet Nam) Viet-Thang Luong (University of Science, Viet Nam) Ngan Luu-Thuy Nguyen (University of Information Technology, Viet Nam) Minh-Quoc Nghiem (University of Science, Viet Nam)
15:55	<b>A method for detecting DGA Botnet based on semantic and cluster analysis</b> Van Tong (Hanoi University of Science and Technology, Viet Nam) Giang Nguyen ((Hanoi University of Science and Technology, Viet Nam)	<b>The Combination of Similarity Measures for Extractive Summarization</b> Tung Le (University of Science, Viet Nam) Hy Nguyen (University of Science, Viet Nam) Viet-Thang Luong (University of Science, Viet Nam) Minh-Quoc Nghiem (University of Science, Viet Nam) Dien Dinh (University of Science, Viet Nam)
16:15	<b>Learning from Imbalanced Data for Encrypted Traffic Identification Problem</b> Ly Vu Thi (Le Quy Don University, Viet Nam) Dong Van Tra (Technical Economic College, Viet Nam) Quang Uy Nguyen (Le Quy Don University, Viet Nam)	<b>Vietnamese plagiarism detection method</b> Nguyen Le Thanh (Saigon Hi-tech Park Incubation Center, Viet Nam) Toan Nguyen Xuan (University of Information Technology, Vietnam National University of HCMC, Viet Nam) Dien Dinh (University of Science, Vietnam National University of HCMC, Viet Nam)
16:35	<b>Efficient Authentication of Resource-Constrained IoT Devices Based on ECQV Implicit Certificates and Datagram Transport Layer Security (DTLS)</b> Duy An Ha (National Chiao Tung University, Taiwan) Khả Thọ Nguyen (National Chiao Tung University, Taiwan) John K. Zao (National Chiao Tung University, Taiwan)	<b>Cross-Domain Sentiment Classification with Word Embeddings and Canonical Correlation Analysis</b> Ngo Xuan Bach (Posts and Telecommunications Institute of Technology, Viet Nam) Vu Thanh Hai (FPT Software Research Lab, Viet Nam) Tu Minh Phuong (Posts and Telecommunications Institute of Technology, Viet Nam)
16:55	<b>CyRIS: A Cyber Range Instantiation System for Facilitating Security Training</b> Cuong Pham (Japan Advanced Institute of Science and Technology, Japan) Dat Tang (Japan Advanced Institute of Science and Technology, Japan) Ken-Ichi Chinen (Japan Advanced Institute of Science and Technology, Japan) Razvan Beuran (Japan Advanced Institute of Science and Technology, Japan)	<b>Distributed Implementation of the Latent Dirichlet Allocation on Spark</b> Karim Sayadi (CHArt Laboratory EA 4004, Ecole Pratique des Hautes Etudes, PSL Research University, France) Quang Vu Bui (CHArt Laboratory EA 4004, Ecole Pratique des Hautes Etudes, PSL Research University and Hue University of Sciences, France) Marc Bui (CHArt Laboratory EA 4004, Ecole Pratique des Hautes Etudes, PSL Research University, France)
17:15	<b>An Efficient Instance Hiding Scheme</b> Qutaibah Malluhi (KINDI Lab, Qatar University, Qatar) Abdullatif Shikfa (KINDI Lab, Qatar University, Qatar) Viet Cuong Trinh (KINDI Lab, Qatar University, Viet Nam)	<b>An analysis of expert knowledge transmission using machine translation services</b> Hiroshi Suzuki (Waseda University, Japan) Reiko Hishiyama (Waseda University, Japan)

## Friday 9th December 2016

8:00	<b>REGISTRATION</b> Venue: Sunflower room, first floor, Rex Hotel, Ho Chi Minh city	
8:30	<b>SoICT KEYNOTE III - Sunflower room</b> CHAIR: Marc Bui (EPHE, France) <b>Smart CDSS and Authoring Tool</b> <i>Invited speaker: Prof. Sungyoung Lee</i> <i>Director, East-West Neo Medicinal U-Lifecare It Research Center,</i> <i>Kyung Hee University, Korea</i>	
	<b>Session 8A: Virtualization and Cloud Computing - Sunflower room 1</b> CHAIR: Sungyoung Lee (Kyung Hee University, Korea)	<b>Session 8B: Prediction models - Sunflower room 2</b> CHAIR: Marc Bui (EPHE, France)

9:15	<b>Adaptive Multipath Routing for Network Functions Virtualization</b> Thi-Thuy-Lien Nguyen (Hanoi National University of Education, Viet Nam) Tuan-Minh Pham (Hanoi National University of Education, Viet Nam) Huynh Thi Thanh Binh (Hanoi University of Science and Technology, Viet Nam)	<b>Significant path selection improves the prediction of novel drug-target interactions</b> Duc-Hau Le (Water Resources University, Viet Nam) Dai-Phong Nguyen (Hanoi University of Science and Technology, Viet Nam) Anh-Minh Dao (FPT University, Viet Nam)
9:35	<b>BFD-NN: Best Fit Decreasing-Neural Network for Online Energy-Aware Virtual Machine Allocation</b> Thanh Nguyen-Duc (Faculty of Computer Science and Engineering, Ho Chi Minh City University of Technology, Viet Nam) Quang-Hung Nguyen (Faculty of Computer Science and Engineering, Ho Chi Minh City University of Technology, Viet Nam) Nam Thoai (HCMC University of Technology, Viet Nam)	<b>Domain Identification for Intention Posts on Online Social Media</b> Thai-Le Luong (University of Transport and Communications, Viet Nam) Quoc-Tuan Truong (Singapore Management University, Singapore) Hai-Trieu Dang (Vietnam National University, Hanoi, Viet Nam) Xuan-Hieu Phan (Vietnam National University, Hanoi, Viet Nam)
9:55	<b>A Robus and Effective MODE Algorithm for Workflow Scheduling in Cloud Environment</b> Toan Phan Thanh (Faculty of Technology Education Hanoi National University of Education Ha Noi, Viet Nam, Viet Nam) Loc Nguyen The (Faculty of Information Technology Hanoi National University of Education Ha Noi, Viet Nam, Viet Nam) Cuong Nguyen Doan (Institute of Information Technology Military Institute of Science and Technology Ha Noi, Viet Nam, Viet Nam)	<b>Sparse logistic regression with supervised selectivity for predictors selection in credit scoring</b> Julia Zhosan (Moscow State University, Russia) Olga Krasotkina (Moscow State University, Russia) Vadim Mottl (Computing Center of Russian Academy of Science, Russia)
10:15	<b>AutoBot: A Versatile Platform for Management of Legacy Applications in the Cloud</b> Linh Manh Pham (INRIA, France) Truong-Thang Nguyen (Institute of Information Technology, VAST, Viet Nam)	<b>Predicting Effort for Requirement Changes during Software Development</b> Sufyan Basri (UTM, Malaysia) Nazri Kama (UTM, Malaysia) Faizura Haneem (UTM, Malaysia) Saiful Adli Ismail (UTM, Malaysia)
10:35	<b>COFFEE BREAK</b>	
	<b>Session 9A: Pattern recognition - Sunflower room 1</b> CHAIR: Thuy Nguyen (Vietnam National University of Agriculture, Vietnam)	<b>Session 9B: Simulation and Logistics - Sunflower room 2</b> CHAIR: André Langevin (CIRRELT, Canada)
10:55	<b>Fully automated multi-label image annotation by Convolutional Neural Network and Adaptive</b> Hoa M. Le (Hanoi University of Science and Technology, Viet Nam) Dung Ngo (Hanoi University of Science and Technology, Viet Nam) Thi-Oanh Nguyen (Hanoi University of Science and Technology, Viet Nam)	<b>Emotion in evacuation process: Formal model and simulation</b> Xuan Hien Ta (Toulouse University, France) Benoit Gaudou (Toulouse University, France) Dominique Longin (Toulouse University, France) Edouard Amouroux (Centre of Technology, RMIT University Vietnam) Tuong Vinh Ho (Vietnam National University, Viet Nam)
11:15	<b>Label Associated Dictionary Pair Learning for Face Recognition</b> Son Dao (Hanoi University of Science and Technology, Viet Nam) Sang Dinh Viet (Hanoi University of Science and Technology, Viet Nam) Huynh Thi Thanh Binh (Hanoi University of Science and Technology, Viet Nam) Thuy Nguyen Thi (Vietnam National University of Agriculture, Viet Nam)	<b>A Computational Paradigm for the Simulation of Complex Epidemic Diseases</b> Xuan Tuan Le (EPHE, France) Marc Bui (EPHE, France) Jean Marie Cohen (OpenRome, France)
11:35	<b>Automatic Hand Gesture Segmentation for Recognition of Vietnamese Sign Language</b> Duc-Hoang Vo (University of Science and Technology, The University of Danang, Viet Nam) Huu Hung Huynh (University of Science and Technology, The University of Danang, Viet Nam) Jean Meunier (Universite de Montreal, Canada) Thanh-Nghia Nguyen (University of Science and Technology, The University of Danang, Viet Nam)	<b>Improving the connectivity of a bus system: A case study of Ho Chi Minh city</b> Van Son Nguyen (Academy of Cryptography Techniques, Vietnam, Viet Nam) Quang Dung Pham (Hanoi University of Science and Technology, Viet Nam) Minh Hoang Ha (FPT Technology Research Institute, FPT University, Hanoi, Vietnam, Viet Nam)
11:55	<b>Marker selection for Human Activity Recognition using combination of Conformal Geometric Algebra and Principal Component</b> Nguyễn Nang Hùng Vân (University of Science and Technology, The University of Danang, Viet Nam) Phạm Minh Tuấn (University of Science and Technology, The University of Danang, Viet Nam) Đỗ Phúc Hào (University of Science and Technology, The University of Danang, Viet Nam)	<b>Towards a decision support system for municipal waste collection by integrating GIS map, smart devices and agent-based</b> Hua Manh Tuyen (Customs General Office, Viet Nam) Nguyen Trong Khanh (Posts and Telecommunications Institute of Technology, Viet Nam) Dinh Thi Hai Van (Viet Nam National University of Agriculture, Viet Nam) Nguyen Thi Ngoc Anh (Hanoi University of Sciences and Technology, Viet Nam)
12:15	<b>LUNCH</b> Cung Dinh Restaurant, Ground floor Rex hotel	
	<b>Session 11A: Video Analysis - Sunflower room 1</b> CHAIR: Thuy Nguyen (Vietnam National University of Agriculture, Viet Nam)	<b>Session 11B: Embedded systems - Sunflower room 2</b> CHAIR: Hironori Nakajo (Tokyo University of Agriculture and Technology, Japan)

13:30	<b>Searching a Specific Person in a Specific Location using Deep Features</b> Vinh-Tiep Nguyen (University of Science, VNU HoChiMinh city, Viet Nam) Minh-Triet Tran (University of Science, VNU HoChiMinh city, Viet Nam) Thanh Duc Ngo (University of Science, VNU HoChiMinh city, Viet Nam) Duy-Dinh Le (University of Science, VNU HoChiMinh city, Viet Nam) Duc Anh Duong (University of Science, VNU HoChiMinh city, Viet Nam)	<b>Design of Real-time Advanced Lens Free Imager</b> Masashi Takemoto (Tokyo University of Agriculture and Technology, Japan) Ryota Suzuki (Tokyo University of Agriculture and Technology, Japan) Katsuhiko Umeno (BeatCraft, Inc., Japan) Masayuki Yashiro (BeatCraft, Inc., Japan) Tetsuya Ryuchi (BeatCraft, Inc., Japan) Kohta Ohshima (Tokyo University of Marine Science and Technology, Japan) Naoya Kitagawa (Tokyo University of Agriculture and Technology, Japan) Hironori Nakajo (Tokyo University of Agriculture and Technology, Japan)
13:50	<b>Fusion of WiFi and visual signals for person tracking</b> Thi Thanh Thuy Pham (MICA, Hanoi University of Science and Technology, Viet Nam) Thi-Lan Le (MICA, Hanoi University of Science and Technology, Viet Nam) Trung-Kien Dao (MICA, Hanoi University of Science and Technology, Viet Nam)	<b>KELI: A Key-Value-with-Links In-Memory Store for Realtime Applications</b> Minh Duc Le (Ho Chi Minh City University of Technology, Viet Nam) The De Vu (Ho Chi Minh City University of Technology, Viet Nam) Duc Hieu Nguyen (Ho Chi Minh City University of Technology, Viet Nam) Tien Hai Ho (Ho Chi Minh City University of Technology, Viet Nam) Duc Hai Nguyen (Ho Chi Minh City University of Technology, Viet Nam) Tran Vu Pham (Ho Chi Minh City University of Technology, Viet Nam)
14:10	<b>Single Camera Based Fall Detection Using Motion and Human Shape Features</b> Viet Anh Nguyen (University of Engineering Technology, VNU Hanoi, Viet Nam) Thanh Ha Le (University of Engineering Technology, VNU Hanoi, Viet Nam) Thuy Thi Nguyen (Vietnam National University of Agriculture, Viet Nam)	<b>Extended Process Scheduler for Improving User Experience in Multi-core Mobile Systems</b> Giang Son Tran (University of Science and Technology of Hanoi, Viet Nam) Thi Phuong Nghiem (University of Science and Technology of Hanoi, Viet Nam) Tuong Vinh Ho (IFI, Vietnam National University in Hanoi, Viet Nam) Chi Mai Luong (Institute of Information Technology, Hanoi, Vietnam, Viet Nam)
14:30	<b>An algorithm for DNA sequence hiding in H.264/AVC video</b> Chien Nguyen Dinh (Feng-Chia University, Taichung, Taiwan) Son Nguyen Thai (Tra Vinh University, Viet Nam) Hsu Fang Rong (Feng-Chia University, Taiwan)	<b>An Open-Source Framework for Integration of Wireless Ad-hoc Drivers into Linux Kernel</b> Quan Le-Trung (University of Information Technology, VNU HCM City, Viet Nam)
14:50	<b>COFFEE BREAK</b>	
	<b>Session 12A: Image processing - Sunflower room 1</b> CHAIR: Andrey Kopylov (Tula State University, Russia)	<b>Session 12B: Speech processing - Sunflower room 2</b> CHAIR: Oleg S. Seredin (Tula State University, Russia)
15:10	<b>Parametric Procedures for Image Denoising with Flexible Prior Model</b> Pham Cong Thang (The University of Da Nang, Viet Nam) Kopylov Andrey V. (Tula State University, Russia, Russia)	<b>Speech Act Classification in Vietnamese Utterance and Its Application in Smart Mobile Voice</b> Thi-Lan Ngo (Thai Nguyen University, Viet Nam) Xuan-Hieu Phan (Vietnam National University, Viet Nam)
15:30	<b>Colour Image Denoising Based on a Combined Model</b> Sergey Dvoenko (Tula State University, Russia) Dang Thanh (Tula State University, Russia) Sang Dinh (Hanoi University of Science and Technology, Viet Nam)	<b>MapReduce based for speech classification</b> Nguyen Quang Trung (University of Engineering and Technology, VNU Hanoi, Viet Nam) The Duy Bui (University of Engineering and Technology, VNU Hanoi, Viet Nam)
15:50	<b>A Novel Method of Cervical Cell Image Segmentation via Region Merging and SLIC</b> Haiying Xia (UTS, Australia) Quang Anh Tran (Posts and Telecommunications Institute of Technology, Vietnam, Viet Nam) Frank Jiang (UTS, Australia) Kaiyue Jin (GXNU, China)	<b>Prominence detection for presentation training system</b> Atsushi Kojima (Hosei University, Japan) Katunobu Itou (Hosei University, Japan)
16:10	<b>Filling Holes on The Surface of 3D Point Clouds Based on Tangent Plane of Hole Boundary Points</b> Van Sinh Nguyen (International University of HCMC, Viet Nam) Manh Ha Tran (International University of HCMC, Viet Nam) Tien Thanh Nguyen (International University of HCMC, Viet Nam)	
16:30	<b>Fingerprint Enhancement for Direct Grayscale Minutiae Extraction by Combining MFRAT and Gabor</b> Thien Hoang Van (Hutech, Viet Nam) Van Giang Vu (University of People's Security, Viet Nam) Hoang Thai Le (University of Sciences, VNU HCM city, Viet Nam)	

18:30	<b>GALA DINER</b> Starlight Restaurant, 11th floor, Oscar hotel, 68A Nguyen Hue Blvd, District 1, Ho Chi Minh city
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<b>Saturday 10th December 2016</b>	
9:00	<b>CITY TOUR (free)</b> Pick up from Rex hotel