

FDSE and ACOMP 2023 Program

		11/22/2023			11/23/2023			11/24/2023	
8:30 AM		Opening							
9:00 AM			Invited keynote: <b>Prof. Manuel Clavel (Chair: Prof. Tai M. Chung)</b>		Invited keynote: <b>Prof. Josef Küng (Chair: Prof. Manuel Clavel)</b>				
9:30 AM		Invited keynote: <b>Prof. Dieter Kranzlmüller (Chair: Prof. Josef Küng)</b>	Data Protection and Privacy Laws: What are the Basic Technical Challenges ahead?		Security Aspects in Information Systems				
		Integrated Quantum and High Performance Computing	Break		Break				
10:30 AM		Break	Invited keynote (online): <b>Prof. Sadok Ben Yahia (Chair: Prof. Lam-Son Lê)</b>		DUT tour & TOPAS/sponsors session				
11:00 AM		Invited keynote: <b>Prof. Tai M. Chung (Chair: Prof. Dieter Kranzlmüller)</b>	Resilient Zero-touch Framework for Sustainable Urban Mobility						
11:30 AM		Security Issues for Digital Therapeutics	Lunch		Lunch				
12:00 PM		Lunch	Lunch		Lunch				
1:30 PM	<b>Session 1: FDSE-Big Data Analytics and Distributed Systems (Chair: Dieter Kranzlmüller)</b>	<b>Session 2: FDSE-Security and Privacy Engineering (Chair: Manuel Clavel)</b>	<b>Session 3: FDSE-Smart City and Industry 4.0 Applications (Chair: Prof. Tai M. Chung)</b>	<b>Session 7: FDSE-Data Analytics and Healthcare Systems (Chair: Dang Thien Binh)</b>	<b>Session 8: FDSE-Smart City and Industry 4.0 Applications (Chair: Takeshi Tsuchiya)</b>	<b>Session 9: FDSE-Smart City and Industry 4.0 Applications &amp; Security and Data Engineering (Chair: Duc-Tai Le)-2F+4S</b>	<b>Session 13: FDSE+ACOMPA-Security and Data Engineering (Chair: Yuta Yoshinaga)-3F-4S</b>	<b>Session 14: ACOMP A-III (Chair: L-P Yân) Online</b>	<b>Session 15: ACOMP A- IV (Chair: Lam-Son Lê) Online</b>
	1:30 PM-1:50 PM	1:30 PM-1:50 PM	1:30 PM-1:50 PM	1:30 PM-1:50 PM	1:30 PM-1:50 PM	1:30 PM-1:50 PM (online)	1:30 PM-1:50 PM (FDSE)	1:30 PM-1:50 PM	1:30 PM-1:50 PM
	Takeshi Masuda, Hiroo Hirose, and Takeshi Tsuchiya	Chau Lam Ngoc and Manuel Clavel	Ti-Hon Nguyen, Thanh Ma, and Thanh-Nghi Do	Vinh Pham, Yongho Lee, and Tai-Myoung Chung	Noi Thanh Nguyen, Huy Quang Vo, Nhut Minh Nguyen, and Thuan Dinh Nguyen	Hai Thanh Nguyen, Toan Khanh Do, Khoa Viet Le, Tong Thanh Nguyen, and Huong Hoang Luong	Dinh Hoang Nguyen, Nam Khanh Tran, and Nhien-An Le-Khanh	Quang Huy Che and Gia Nghia Tran	Nguyet Le and Hoang Hai Tran
	Structuring of Discourse and Annotation Method for Contribution Assessment in Collaborative Discussions	Web browsers' support for managing cookies: An experiment report	LAVETTES: Large-scale-dataset Vietnamese ExTActive Text Summarization Models	Personalized Stress Detection System Using Physiological Data from Wearable Sensors	Apply Multivariate Time Series Approaches for Forecasting Vietnam Index	Removal of Various Noise Types and Voice-Based Gender Classification for Dubbed Videos	A Siamese-Based Approach for Network Intrusion Detection Systems in Software-Defined Networks	Efficient Multi-class Object Re-identification Approach With a Unified Model	Evaluation of Deep CNN-BiLSTM Model on Diverse Datasets
	1:50 PM-2:10 PM	1:50 PM-2:10 PM	1:50 PM-2:10 PM	1:50 PM-2:10 PM	1:50 PM-2:10 PM	1:50 PM-2:10 PM (online)	1:50 PM-2:10 PM (ACOMPA)	1:50 PM-2:10 PM	1:50 PM-2:10 PM
	H. K. Dai and K. Furusawa	Chibuzor Udoekwu, Stefan Craf, and Alex Norta	Takeshi Tsuchiya, Masami Matsunaga, Hiroo Hirose, Tetsuyasu Yamada, Hiroshi Ichikawa, and Quang Tran Minh	Balint Pataki, Kinga Nagy, and Binh Thanh Nguyen	Bach Hoang Xuan and An Nguyen Van	Anh Le, Dang Tran Hai Mai, and Thanh Lam	Vinh Truong Quang and Bang Nguyen	Hoang Hai Tran, Thi Ha La, Van Thieu Vu and Dinh Minh Vu	Quang Khanh Chung and Tri Nhut Do
	Improving the Storage Utilization of 0-Complete Trees as Index Structures	Authenticating Parties in Blockchain-Enabled Inter-Organizational Processes with Configurable Challenge-Sets	Study on Web Based Virtualized Containers for Software Development Lectures in BYOD	Comparing Performance of Linear Regression Models Trained on Systematic Forest Measurement Datasets to Predict Diameter at Breast Height	A Fuzzy Logic Model for Digital Transformation Assessment of Vietnamese Higher Education Institutions	A Dataset of Vietnamese Documents for Text Detection	Evaluation System of Student's Concentration Using Deep Learning-Based Head-Pose Estimation	Deep Inductive Transfer Learning Approach for Network Attacks Detection	DATA PROCESSING FOR A VISION-IMU INTEGRATION TO ESTIMATE POSITION
	2:10 PM-2:30 PM	2:10 PM-2:30 PM	2:10 PM-2:30 PM	2:10 PM-2:30 PM	2:10 PM-2:30 PM	2:10 PM-2:20 PM (short)	2:10 PM-2:20 PM (short)	2:10 PM-2:30 PM	2:10 PM-2:30 PM
	Nguyen Tuan Truong, Nguyen Khac Tue, Nguyen Duc Chinh, Le Dinh Huynh, Vu Thu Diep, Phan Duy Hung	Tran Khanh Dang and Lai Trung Minh Duc	Nguyen Xuan Ha Giang, Lam Thanh-Toan, and Nguyen Thai-Nghe	Anh-Cang Phan, Hung-Phi Cao, Thuong-Cang Phan, Ngoc-Hoang-Quyen Nguyen, and Thanh-Ngoan Trieu	Thanh Tung Tran, Truong Giang Nguyen, Thai Hoa Dang, and Yuta Yoshinaga	W. Schweinger, E. Kapsammer, W. Retschitzger, B. Phöll, D. Graf, N. Baumgartner, J. Schönböck, H. Zaunmair	Nguyen Thai-Nghe, Tran Khanh Dong, Hoang Xuan Tri, and Nguyen Chi-Ngon	An Nguyen Hoang, Mai Dinh Lam, Minh Chu Binh, Minh Ha Binh and Phung Phan Dinh	Hoanh-Su Le, Quoc-Cuong Ta, Thong Cao Minh, Hong Uyen Huynh, Chinh Luong Doanh and Nguyen Nguyen Ngoc Khoi
	Efficient Mining of Top-K Cross-Level High Utility Itemset	Differential Privacy for Consumer Data in Retail Data Partnerships	Session-based Recommendation System Approach for Predicting Learning Performance	Vision Transformer for Kidney Stone Detection	Improving Human Resources' Efficiency with A Generative AI-based Resume Analysis Solution	Towards Automating Semantic Relationship Awareness in Operational Technology Monitoring	Deep Learning Approach for Tomato Leaf Disease Detection	Multi-Head Time Series Prediction by Decomposition and LSTM-Self-Attention-LSTM Model	Computer Vision Application in Management of Vehicle Speed in Factory Area
	2:30 PM-2:50 PM	2:30 PM-2:50 PM	2:30 PM-2:50 PM	2:30 PM-2:50 PM	2:30 PM-2:50 PM	2:20 PM-2:30 PM (short)	2:20 PM-2:30 PM (short)	2:30 PM-2:50 PM	2:30 PM-2:50 PM
	Tri-Thuc Vo, Thanh-Nghi Do	Quang-Vinh Dang	Richard Michael Dreyling III, Tanel Tammet and Ingrid Poppel	Hoa Thanh Le, Linh Nguyen, Thao Dinh Nguyen	Thanh-Tri Trang, Thanh Ma, and Thanh-Nghi Do	Kim-Ngoc T. Le, Sammy Yap Kwang Sang, Duc-Tai Le, and Hyunseung Choo	Le Nhi Lam Thuy, Pham Phung Phuong Nguyen,Vu Ngoc Thanh Sang, Pham The Bao, and Tan Dat Trinh	Vo Duc Quang, Hoang Huu Viet, Nguyen Hai Yen and Tran Dinh Khang	Luu Giang-Nam, Binh Thanh T., Ngo Quoc-Hoang and Ton Long-Phuc
	Biggest margin tree for the multi-class classification	Using transformer technique for intrusion detection	Digital Transformation Insights from an AI Solution in Search of a Problem	Attention Models and Image Pre-Processing For Covid-19 Detection Based on Lung Ultrasound Images	LORAP: Local Deep Neural Network for Solar Radiation Prediction	Feature Fool Exploitation for Lightweight Anomaly Detection in Respiratory Sound	Invasive Ductal Carcinoma Classification from Whole Slide Image based on BRISQUE and Convolutional Neural Networks	An improved fuzzy support vector machine algorithm for highly imbalanced datasets in the co-authorship recommendation problem	Deflection prediction of multi-dimensional functionally graded plate with variable thickness on elastic foundation using deep neural network
						2:30 PM-2:40 PM (short)	2:30 PM-2:40 PM (short)	2:50 PM-3:10 PM	2:50 PM-3:00 PM (short)
						Sardar Jaffar Ali, Muhammad Omer, Syed Muhammad Raza, and Hyunseung Choo	Nguyen Dinh Tra, Nguyen Cong Tri, Phan Duy Hung	Phat Nguyen Huu, Thuong Nguyen Thi Mai, Chau Nguyen Le Bao, Anh Tran Ha Dieu, Hieu Nguyen Trong, Pha Pham Ngoc and Quang Tran Minh	Tri Nhut Do, Quang Vinh Tran, Hoai Nhan Nguyen and Minh Son Nguyen
						Multiple Vehicles Detection and Tracking using Ground and Aerial Images for Vehicular Management System	Improving Warped Planar Object Detection Network for Automatic License Plate Recognition	Designing StyleGAN2 Model for Generating 2D Pokemon Character	Improving Power Performance of AI Acceleration Unit in Smart Camera
						2:40 PM-2:50 PM (short)	2:40 PM-2:50 PM (ACOMPA short)	3:10 PM-3:20 PM (short)	3:00 PM-3:10 PM (short)
						Anh Le, Dung Pham, and Thanh Lam	Vinh Truong Quang and Long Pham Hien		
						Robust and Accurate Automatic License Plate Recognition System	Pedestrian Detection Using YOLO with Improved Attention Module		
2:50 PM	Break	Break	Break	Break	Break	End of technical sessions			
3:30 PM	<b>Session 4: FDSE-Big Data Analytics and Distributed Systems (Chair: Pham Cong Thang)</b>	<b>Session 5: FDSE-Machine Learning and Artificial Intelligence for Security and Privacy (Chair: Takeshi Tsuchiya)</b>	<b>Session 6: ACOMP A I (Chair: Lam Son Lê)</b>	<b>Session 10: FDSE-Data Analytics and Healthcare Systems (Chair: Takeshi Tsuchiya)</b>	<b>Session 11: FDSE-Smart City and Industry 4.0 Applications (Chair: Pham Cong Thang)-2F+1S</b>	<b>Session 12: ACOMP A II (Chair: Minh Son Nguyen)</b>			
	3:30 PM-3:50 PM	3:30 PM-3:50 PM	3:30 PM-3:50 PM	3:30 PM-3:50 PM	3:30 PM-3:50 PM	3:30 PM-3:50 PM			
	Ermo Taks, Dirk Draheim, Helina Kruuk	Viet Trung Le, Phuc Hao Do, Sylvestre Uwizemungu, Thang Le-Dinh and Tran Duc Le	Duy Doan, Nguyen Truong Bao, Trung Trinh Tran, Nhan Ngo Thanh and Son Nguyen Minh	Jieming Zhang, Yongho Lee, Tai-Myoung Chung and Hognun Park	Yongho Lee, Vinh Pham, Jieming Zhang, and Tai-Myoung Chung	Thanh Hoang Le Hai, Khang Nguyen Day, Thin Nguyen Minh, Danh Mai Hoang and Nam Thoi			
	Three-Dimensional Visualization of Legal Acts: Concept and Prototype	Utilizing InfoGAN and PE Header Features for Synthetic Ransomware Image Generation: An Experimental Study	A Personalized Meal Recommendation Approach For Smart Refrigerator	Development of a Handwriting Drawings Assessment System for Early Parkinson's Disease Identification with Deep Learning Methods	A Digital Therapeutics System for the Diagnosis and Management of Depression: Work in Progress	Deviation Backfilling: A Robust Backfilling Scheme for Improving the Efficiency of Job Scheduling on High Performance Computing Systems			
	3:50 PM-4:10 PM	3:50 PM-4:10 PM	3:50 PM-4:10 PM	3:50 PM-4:10 PM	3:50 PM-4:10 PM	3:50 PM-4:10 PM			
	Tran Khanh Dang, Phat T. Tran-Truong, Nguyen Thi Huyen Trang	Minh-Khoi Nguyen-Nhat, Trung-Truc Huynh-Ngo, Minh-Triet Tran, and Trong-Le Do	Duy Doan, Anh Nguyen Quang, Cuong Chau Chi, Nhan Ngo Thanh and Son Nguyen Minh	Nam V. Nguyen, Hieu Trung Huynh and Phuc-Lu Le	Tuyen Thi-Thanh Do	Phuoc Hoang Khang Nguyen, Xuan Duc Doan, Chi Nhan Nguyen and Van Tuan Huynh			
	An Enhanced Incentive Mechanism for Crowdsourced Federated Learning Based on Contract Theory and Shapley Value	Enhancing Detection of Daily-Used Face Swap Applications by Using Focused Landmark Analysis	A Description-Based Management Model for Different IoT Devices in Smart Home Applications	Deep Learning Techniques for Segmenting Breast Lesion Regions and Classifying Mammography Images	BERT-based Sentence Recommendation for Building Vietnamese Universal Dependency Treebank	Towards Safer T-Junctions: Unraveling Crash Causes Through Comprehensive Reconstruction And Analysis	Free time to explore Da Nang City		
	4:10 PM-4:30 PM	4:10 PM-4:30 PM	4:10 PM-4:30 PM	4:10 PM-4:30 PM	4:10 PM-4:30 PM	4:10 PM-4:30 PM			
	Duc Hoa Le, Debarshi Mazumder, Luy-Da Quach, Sheyda Banerjee and Vinh Dinh Nguyen	Trung Ha, Trang Vo, Tran Khanh Dang, Nguyen Thi Huyen Trang	Khanh Le Bao, Toai Tran Hoang Cong, Thu Nguyen Hoang Anh, Minh Vo Duc, Thanh Hoang Le Hai and Nam Thoi	Thuong-Cang Phan, Anh-Cang Phan, and Thanh-Ngoan Trieu	Nguyen Minh Nhut, Dang Minh Quan, Le Mai Day Khanh and Nguyen Dinh Thuan	Quang-Hung Nguyen, Hoanh-Su Le and Duy-Thanh Tran			
	Robust Vietnam's Motorcycle License Plate Detection and Recognition Using Deep Learning Model	Differential Privacy under Membership Inference Attacks	MedFind - A medicine detection framework for Vietnamese medical prescription	Breast Cancer Classification on Mammograms Using Vision Transformer	Design a smart membrane house system and building melon farm management software to develop high-tech agriculture				
	4:30 PM-4:50 PM	4:30 PM-4:50 PM (online)	4:30 PM-4:40 PM (Short)	4:30 PM-4:50 PM	4:30 PM-4:40 PM (short)	4:30 PM-4:40 PM (short)			
	Binh Thanh Nguyen, Bao Chung Hoang, Loc Nguyen Tien, Binh Ton That, Huu Truong Dinh	Cong-Vu Trinh, Thien-Thanh Le, Minh-Khoi Le-Nguyen, Dinh-Thuan Le, Van-Hoa Nguyen, and Khuong Nguyen-An	Hoang Nhut Tran, Phuoc Hoang Khang Nguyen and Chi Nhan Nguyen	Thuong-Cang Phan, Anh-Cang Phan, Khac-Tuong Nguyen, and Ho-Dai Chan	Nguyen Dinh Thuan, Tran Man Quam, Dang Nguyen Phuoc An, and Nguyen Minh Nhut	Phuoc Hoang Khang Nguyen, Xuan Duc Doan, Chi Nhan Nguyen and Van Tuan Huynh			
	Exploring Links between Personality Traits and Environmental Attitudes with GreenBig System	An Efficient Machine Learning-based Web Application Firewall with Deep Automated Pattern Categorization	An automatic diagnosis system of rice leaf diseases based on ResNet-50 architecture	Detection and Segmentation of Brain Tumors on 3D MR images Using 3D U-Net	Community Detection for Personalized Learning Pathway Recommendations on IT E-Learning System	Automatic monitoring and detection of hot spot on photovoltaic panel based on YOLOv5			
5:00 PM	End of technical sessions		End of technical sessions		End of technical sessions				
6:00 PM	6:00 PM-8:00 PM Welcome dinner		6:30 PM-8:30 PM -> VIP dinner		6:30 PM-9:00 PM -> Gala dinner				
8:00 PM	End of day 1		End of day 2		End of day 3				