

Monday, December 13 (GMT Time)

08:00-08:15	OPENING Zoom link: https://bom.so/FO9Vt0 Zoom Meeting ID: 959 8802 6626	
08:15-08:20	BREAK	
	MM1: Deep Learning and Applications 1 <i>Chairman: Trung Duy Pham</i> Zoom link: https://bom.so/FO9Vt0 Zoom Meeting ID: 959 8802 6626	MM2: Operational Research and Applications 1 <i>Chairman: Lyes Benyoucef</i> Zoom link: https://bom.so/UmikE0 Zoom Meeting ID: 931 0542 6556
08:20-08:45	<i>A New Approach to the Improvement of the Federated Deep Learning Model in A Distributed Environment</i> <u>Thuan Le Duc</u>, Huong Pham Van, Hiep Hoang Van and Khanh Nguyen Kim	<i>Algorithms for Flow Shop with Job-Dependent Buffer Requirements</i> Alexander Kononov, <u>Julia Memar</u>, and Yakov Zinder
08:45-09:10	<i>Deep Networks for Monitoring Waterway Traffic in the Mekong Delta</i> Thanh Nghi Do, Minh Thu Tran Nguyen, Thanh Tri Trang, and <u>Tri Thuc Vo</u>	<i>A new mathematical model for Hybrid Flow Shop under time-varying resource and exact time-lag constraints</i> <u>Quoc Nhat Han Tran</u>, Nhan Quy Nguyen, Hicham Chehade, Farouk Yalaoui, and Frédéric Dugardin
09:10-09:35	<i>The Multi-objective Optimization of the Convolutional Neural Network for the Problem of IoT System Attack Detection</i> <u>Thi Hong Van Le</u>, Van Huong Pham, and Hieu Minh Nguyen	<i>Multi-objective Sustainable Process Plan Generation for RMS: NSGA-III vs New NSGA-III</i> <u>Imen Khettabi</u>, Lyes Benyoucef, and Mohamed Amine Boutiche
09:35-09:40	BREAK	
	MM3: Machine learning and Applications 1 <i>Chairman: Thanh Nghi Do</i> Zoom link: https://bom.so/FO9Vt0 Zoom Meeting ID: 959 8802 6626	MM4: Operational Research and Applications 2 <i>Chairman: Viet Hung Nguyen</i> Zoom link: https://bom.so/UmikE0 Zoom Meeting ID: 931 0542 6556

09:40-10:05	<i>Training Support Vector Machines for Dealing with the ImageNet Challenging Problem</i> <u>Thanh Nghi Do</u> and Hoai An Le Thi	<i>Traveling Salesman Problem with Truck and Drones: A case study of Parcel Delivery in Hanoi</i> <u>Quang Huy Vuong</u>, Thi Huong Giang Dang, Trung Do Quang, and Minh Trien Pham
10:05-10:30	<i>An Ensemble Learning Approach For Credit Scoring Problem: A Case Study of Taiwan Default Credit Card Dataset</i> Duc Quynh Tran, <u>Doan Dong Nguyen</u>, Huu Hai Nguyen, and Quang Thuan Nguyen	<i>MIP formulations for OWA Traveling Salesman Problems</i> <u>Thi Quynh Trang Vo</u> and Viet Hung Nguyen
10:30-10:55	<i>What to Forecast When Forecasting New Covid-19 Cases? Jordan and the United Arab Emirates as Case Studies</i> Sameh Al-Shihabi and <u>Dana Abu Abdoun</u>	<i>Bi-objective model for the distribution of COVID-19 vaccines</i> <u>Mohammad Amin Yazdani</u>, Daniel Roy, and Sophie Hennequin
10:55-11:00	BREAK	
11:00-12:00	Plenary talk 1: DC programming and DCA: recent advances and trends Speaker: Hoai An Le Thi Chairman: Zoom link: https://bom.so/FO9Vt0 Zoom Meeting ID: 959 8802 6626	
12:00-13:00	BREAK	
13:00-14:00	Plenary talk 2: Artificial Intelligence, Data Sciences, and Optimization in Economics and Finance Speaker: Panos M. Pardalos Chairman: Zoom link: https://bom.so/FO9Vt0 Zoom Meeting ID: 959 8802 6626	
14:00-14:05	BREAK	
	MA1: Deep learning and Applications 2 Chairman: <i>Andrzej Nowakowski</i> Zoom link: https://bom.so/FO9Vt0 Zoom Meeting ID: 959 8802 6626	MA2: Operational Research and Applications 3 Chairman: <i>Shaojie Tang</i> Zoom link: https://bom.so/UmikE0 Zoom Meeting ID: 931 0542 6556

14:05-14:30	<i>Training Deep Network Models for Fingerprint Image Classification</i> Thanh Nghi Do and <u>Minh Thu Tran Nguyen</u>	<i>Optimizing a Binary Integer Program by Identifying its Optimal Core Problem- a New Optimization Concept Applied to the Multidimensional Knapsack Problem</i> <u>Sameh Al-Shihabi</u>
14:30-14:55	<i>An Assessment of the Weight of the Experimental Component in Physics and Chemistry Classes</i> Margarida Figueiredo, M. Lurdes Esteves, Humberto Chaves, <u>José Neves</u>, and Henrique Vicente	<i>Beyond Pointwise Submodularity: Non-Monotone Adaptive Submodular Maximization subject to Knapsack and k-System Constraints</i> <u>Shaojie Tang</u>
14:55-15:20	<i>Optimal Control in Learning Neural Network</i> Marta Lipnicka and <u>Andrzej Nowakowski</u>	<i>Exploring options for carbon abatement in the petroleum sector: a supply chain optimization-based approach</i> <u>Otman Abdussalam</u> , Nuri Fello, and Amin Chaabane

Tuesday, December 14 (GMT Time)

	TM1: DC Programming and DCA <i>Chairman: Yi-Shuai Niu</i> Zoom link: https://bom.so/08NC46 Zoom Meeting ID: 956 5178 5984	TM2: Operational Research and Applications 4 <i>Chairman: Takayuki Shiina</i> Zoom link: https://bom.so/muQIGe Zoom Meeting ID: 987 2366 6264
08:30-08:55	<i>DCA for Gaussian Kernel Support Vector Machines with Feature Selection</i> Hoai An Le Thi and <u>Vinh Thanh Ho</u>	<i>Optimal operation model of heat pump for multiple residences</i> <u>Yusuke Kusunoki</u>, Tetsuya Sato, and Takayuki Shiina
08:55-09:20	<i>Solving a centralized dynamic group key management problem by an optimization approach</i> <u>Thi Tuyet Trinh Nguyen</u>, Hoang Phuc Hau Luu and Hoai An Le Thi	<i>Revenue management problem via stochastic programming in the aviation industry</i> <u>Mio Imai</u>, Tetsuya Sato, and Takayuki Shiina
09:20-09:45	<i>A Boosted DCA with Power-Sum DC Representation for Linear Constrained Polynomial Program</i> <u>Hu Zhang</u> and Yi-Shuai Niu	<i>Stochastic programming model for lateral transshipment considering rentals and returns</i> <u>Keiya Kadota</u>, Tetsuya Sato, and Takayuki Shiina
09:45-10:10	<i>A Refined Inertial DC Algorithm for DC Programming</i> <u>Yu You</u> and Yi-Shuai Niu	
10:10-10:20	BREAK	
	TM3: Optimization methods <i>Chairman: Frédéric Dambreville</i> Zoom link: https://bom.so/muQIGe Zoom Meeting ID: 987 2366 6264	TM4: Communication Network and Cryptography <i>Chairman: Quang Trung Do</i> Zoom link: https://bom.so/08NC46 Zoom Meeting ID: 956 5178 5984
10:20-10:45	<i>Bayesian optimization based on simulation conditionally to subvariety</i> <u>Frédéric Dambreville</u>	<i>Implementation of XTS - GOST 28147-89 with Pipeline Structure on FPGA</i> Binh Nhung Tran, Ngoc Quynh Nguyen, Ba Anh Dao and Chung Tien Nguyen

10:45-11:10	<i>A Comparison Between Optimization Tools to Solve Sectorization Problem</i> <u>Aydin Teymourifar</u>, Julian Blank, Ana Maria Rodrigues, Jose Soeiro Ferreira and Cristina Lopes	<i>4×4 recursive MDS matrices effective for implementation from Reed-Solomon code over GF(q) field</i> <u>Luong Tran Thi</u>, Cuong Nguyen Ngoc and Trinh Bui Duc
11:10-11:35	<i>Clarke Subdifferential, Pareto-Clarke critical points and descent directions to multiobjective optimization on Hadamard manifolds</i> Erik Papa Quiroz, <u>Nancy Baygorrea</u> and Nelson Maculan	<i>Maximizing Achievable Rate for Incremental OFDM-based Cooperative Communication Systems with Out-of-band Energy Harvesting Technique</i> You-Xing Lin, Tzu-Hao Wang, Chun-Wei Wu and <u>Jyh-Horng Wen</u>
11:35-12:00	<i>An Interior Proximal Method with Proximal Distances for Quasimonotone Equilibrium Problems</i> <u>Erik Papa Quiroz</u>	<i>Estimation and Compensation of Doppler Frequency Offset in Millimeter Wave Mobile Communication Systems</i> <u>Van Linh Dinh</u> and Van Yem Vu
12:00-13:00	BREAK	
13:00-14:00	Plenary talk 3: Computationally Relevant Generalized Derivatives: Theory, Evaluation and Applications Speaker: Paul Barton Chairman: Zoom link: https://bom.so/08NC46 Zoom Meeting ID: 956 5178 5984	
14:00-14:05	BREAK	
	TA1: Machine learning and Applications 2 Chairman: <i>Hoai Minh Le</i> Zoom link: https://bom.so/muQIGe Zoom Meeting ID: 987 2366 6264	TA2: Operational Research and Applications 5 Chairman: <i>Duc Quynh Tran</i> Zoom link: https://bom.so/08NC46 Zoom Meeting ID: 956 5178 5984
14:05-14:30	<i>Measuring Semantic Similarity of Vietnamese Sentences based on Lexical and Distribution Similarity</i> <u>Van Tan Bui</u> and Phuong Thai Nguyen	<i>Exploiting Demand Prediction to Reduce Idling Travel Distance for Online Taxi Scheduling Problem</i> Van Son Nguyen, Quang Dung Pham, and <u>Van Hieu Nguyen</u>
14:30-14:55	<i>The effect of machine learning demand forecasting on supply chain performance-The case study of coffee in Vietnam</i> <u>Thi Thuy Hanh Nguyen</u>, Abdelghani Bekrar, Thi Muoi Le, and Mourad Abed	<i>Efficiently fair dial-a-ride problem with time-windows</i> Viet Hung Nguyen and <u>Minh Hieu Nguyen</u>

14:55- 15:20	<i>ILSA Data Analysis with R Packages</i> <u>Laura Ringienė</u>, Julius Zilinskas, and Audronė Jakaitienė	
-----------------	---	--