

Wednesday, June 4 (GMT Time +2)

08:00-09:30	RECEPTION/REGISTRATION		
09:30-10:30	Opening and Ceremony of 40th birthday of DC (Difference of Convex functions) programming and DCA (DC Algorithm) Room: Grand Amphithéâtre		
10:30-11:30	PLENARY TALK 1: From Optimization to AI: 40 Years of DCA's Evolution and Impact Speaker: Hoai An Le Thi Chairman: D. Yaroslav Sergeyev Room: Grand Amphithéâtre		
11:30-13:00	LUNCH		
	WA1 (Special Session): Recent advances in DC programming and DCA: Theory, Algorithms and Applications 1 Chairman: <i>Hoai An Le Thi</i> Room: Grand Amphithéâtre	WA2 (Special Session): Explainability, Data Privacy, and Fairness in Trustworthy AI 1 Chairman: <i>Süreyya Akyüz</i> Room: Petit Amphithéâtre	WA3: Machine Learning & Big Data 1 Chairman: <i>Jan Van Vuuren</i> Room: BN3-001
13:00-13:20	<i>A unified approach to finding directional stationary points of difference-of-convex optimization problems points of difference-of-convex optimization problems</i> Hoai An Le Thi, Van Ngai Huynh, and Tao Pham Dinh	<i>A Novel Robust Optimization Model: The Synergy of Stochastic Functional Gradients and Kernel Methods in Machine Learning</i> Mohammed Thamer Alkhazraji, Duygu Üçüncü, and Süreyya Akyüz	<i>Framework for Detecting and Suggesting Corrections for Missing and Inconsistent Data in Vietnam's National Residents Database</i> Tuan-Anh Nguyen, Quang-Dung Pham, Quoc-Trung Bui
13:20-13:40	<i>Tight Convergence Rates in Gradient Mapping for the Difference-of-Convex Algorithm</i> Teodor Rotaru, Panagiotis Patrinos, and François Glineur	<i>Optimizing Ensemble of CNNs: A Semi-Infinite Solution for Efficient Model Selection</i> Melisa Caliskan Demir and Sureyya Akyuz	<i>A knowledge graph approach towards detecting large language model hallucination</i> Thomas Winter and Jan Van Vuuren
13:40-14:00	* Online presentation* <i>High-Order Moment Portfolio Optimization via an Accelerated Difference-of-Convex Programming Approach with Line Search and Sums-of-Squares</i>	<i>Ensemble Pruning with Convex Programming for XAI</i> Ozen Yilmaz, Sureyya Ozogur-Akyuz, and Duygu Üçüncü	* Online presentation* <i>Toward Enhancing Legal Reasoning with Integration of an Arabic Legal Ontology And SWRL-based Rules</i> Zeinab Bahsoun, Ali Kalakech, Malak Khreis

	Yi-Shuai Niu, Yajuan Wang, Hoai An Le Thi, and Tao Pham Dinh		
14:00-14:15	COFFEE BREAK		
14:15-15:15	PLENARY TALK 2: Invertible Neural Networks and Implicit Models Speaker: Laurent El Ghaoui Chairman: Tao Pham Dinh Room: Grand Amphithéâtre		
	WA4 (Special Session): Recent advances in DC programming and DCA: Theory, Algorithms and Applications 2 Chairman: <i>Hoai An Le Thi</i> Room: Grand Amphithéâtre	WA5 (Special Session): Explainability, Data Privacy, and Fairness in Trustworthy AI 2 Chairman: <i>Süreyya Akyüz</i> Room: Petit Amphithéâtre	WA6: Optimization and Decision Making 1 Chairman: <i>Imed Kacem</i> Room: BN3-001
15:20-15:40	<i>A DC approach for the chance-constrained portfolio optimization problem</i> Hoai An Le Thi, Thi My Le Le, Julien Wallart, Hoai Minh Le	<i>DiCE-Extended: A Robust Approach to Counterfactual Explanations in Machine Learning</i> Volkan Bakir, Polat Goktas, and Süreyya Akyüz	<i>Joint Production, maintenance and quality inspection planning of a hybrid manufacturing/remufacturing system under production rate dependent deterioration</i> Patrick Megoze Pongha, Jean-Pierre Kenne, and Lucas Hof
15:40-16:00	<i>A DCA Approach for a Maximum Flow Network Interdiction Problem</i> Hoai An Le Thi, Thi Minh Tam Nguyen	<i>FreezeResNet: A Novel Deep Learning Model for Rapid and Accurate Classification of Intracranial Hemorrhage Subtypes</i> Samane Sharifi Monfared, Hassan Imani, and Lavdie Rada	<i>Energy system pathway optimization considering market-based and geopolitical technology criticality</i> Suzanne Le Bihan, Tobias Naegler, Steffen Johannes Schlosse, Karl-Kiên Cao, Michaela Schicho, and Frederik Dunke
16:00-16:20	<i>DC Programming and DCA for Secrecy Rate Maximization via null space AF relay beamforming in a Wireless Network with Multiple Eavesdroppers</i> Hoai An Le Thi, Thi Thuy Tran, Nhu Tuan Nguyen	<i>Task-Specific Architecture Analysis for Brain Tumor Classification</i> Ece Nur Sonar and Duygu Cakir	<i>Transformer-based decision support for multi-objective recommendations</i> Cornelia Kloppers and Jan Van Vuuren

	WA7: Optimization and Decision Making 2 <i>Chairman: Lina Mallozzi</i> Room: Grand Amphithéâtre	WA8: Machine Learning & Big Data 2 <i>Chairman: Jan Van Vuuren</i> Room: Petit Amphithéâtre	WA9 (Special Session): Innovations for Health: From Acquisition to AI-Driven Analysis (IHAIA) <i>Chairman: Marie Luong</i> Room: BN3-001
16:20-16:40	<i>Presolve techniques for quasi-convex chance constraints with finite-support low-dimensional uncertainty</i> Guillaume Van Dessel and François Glineur	<i>An OCR-LLM framework towards Tabular Data Extraction</i> Christiaan J Pieterse, Pvd Venter	<i>Smart Pixels Sensor for Diffuse Optical Tomography</i> E. Tinet, D. Ettori, F. Ramaz, J.-M. Tualle
16:40-17:00	<i>Empirical and computer-aided robustness analysis of long-step and accelerated methods in smooth convex optimization</i> Pierre Vernimmen and François Glineur	<i>Comparison of Competing Artificial Neural Networks Models for Stock Market Forecasting</i> Konstantinos Liagkouras and Kostas Metaxiotis	<i>Ultrasound speckle denoising using ResUNet-based diffusion model</i> Nhat-Duy Pham, Marie Luong, Mounir Kaaniche, Dinh-Hoan Trinh, and Aladine Chetouani
17:00-17:20	<i>Hierarchical Games in Facility Location Problems</i> Lina Mallozzi	<i>An efficient BERT-based algorithm for extracting opinion targets from financial news</i> Louis We Boshoff and Jan Van Vuuren	* Online presentation* <i>Toward Better Optimization of Low-Dose CT Enhancement: A Critical Analysis of Loss Functions and Image Quality Assessment Metrics</i> Yousra Taifour, Beghdadi Azeddine, Luong Marie, Ming Zuheng
17:20-17:40	<i>Explicit convergence rate of the proximal point algorithm under R-continuity</i> Khiet Le Ba and Michel Thera	<i>The Physics-Informed Neural Networks approach to parameter identification problems in unsteady Navier-Stokes equations</i> Nhat-Duy Pham, Canh Nam Nguyen, Thi Thanh Mai Ta	* Online presentation* <i>Self-Distilled EfficientNet: A Novel Training Framework for Thyroid Image Classification</i> Quoc Hieu Nguyen, Van De Nguyen, Tien Dung Vu, Trong Hieu Nguyen, Dinh Tung Pham, Dinh Hoan Trinh, Aladine Chetouani, Marie Luong
17:40-18:00	<i>Efficient Nonlinear Model Predictive Control for Quadrotor UAV Trajectory Tracking</i> Xuan The Nguyen, Dinh Thai Kim, Xuan Hai Le, and Quang Thuan Nguyen	<i>Space-Time Block Code Patterns for Enhancing Physical Layer Security for next-generation networks</i> Cong-Hoang Diem and Dinh-Tan Pham	* Online presentation* <i>Image Features and Image Dataset Augmentation for Skin Lesions Machine Learning Classification</i> Eluwumi Petrus-Nihi, Rumana Akther, and Nikolay Sirakov

Thursday, June 5 (GMT Time +2)

	TM1: Optimization and Decision Making 3 <i>Chairman: Michel Thera</i> Room: Grand Amphithéâtre	TM2: New trends on decision models and applications 1 <i>Chairman: Imed Kacem</i> Room: Petit Amphithéâtre	TM3: Machine Learning & Big Data 3 <i>Chairman: Duc Quynh Tran</i> Room: BN3-001
08:30-08:50	<i>A Non-Monotone Line-Search Method for Minimizing Functions with Spurious Local Minima</i> Zohreh Aminifard and Geovani Nunes Grapiglia	<i>Maximum Lateness Minimization on Two Parallel Machines with a Non-availability Interval</i> Youcef Abdelsadek, Abdelhak Elidrissi, Imed Kacem, Qing Lu, and Nouredine Tlati	<i>Aligning metrics in time series anomaly detection with desirable behaviour in practice</i> Daniel Barrish and Jan Van Vuuren
08:50-09:10	<i>A New Algorithm for Solving the Primal Standard Linear Programming Problem and Numerical Experimental Results</i> Van Hoan Tran and Anh Tuan Nguyen	<i>Mobile Decision Support for Electronically Assisted Astronomy</i> Olivier Parisot and Mickael Stéfas	<i>A novel feature engineering method for rainfall prediction</i> Huu Hai Nguyen, Duc Quynh Tran, and Hoai Minh Le
09:10-09:30	<i>A derivative-free simplex algorithm for the local minimization of a concave program, with some extensions</i> Mohand Bentobache	<i>Machine Learning for Characterizing the Tardiness Minimization Problem on a Single Machine</i> Youcef Abdelsadek, Bochra Djahel, Allaoua Hemmak, Imed Kacem, and Giorgio Lucarelli	* Online presentation* <i>Deployment-affordable Automatic Student Attendance System Utilizing Face Recognition</i> Khanh-Huyen Tran, Minh-Duc D.X, Manh-Hung Ha, Dinh-Tan Pham, Cong-Doan Truong
09:30-09:50	<i>Enhancing finite-difference-based derivative-free optimization with machine learning</i> Timothé Taminiau, Geovani Grapiglia, and Estelle Massart	* Online presentation* <i>Quantum Computing Models for Financial Analysis</i> Pablo Herrero Gómez, Francisco Pujol-López, Ana Martínez García, and Higinio Mora Mora	* Online presentation* <i>Hybrid artificial intelligence models incorporating neutrosophy for predicting student outcomes</i> Thi Kim Son Nguyen, Van Dat Bui, Hong Hoa Nguyen, and Thi Thu Trang Hoang
09:50-10:05	COFFEE BREAK		
10:05-11:05	PLENARY TALK 3: Recent imaging technologies towards a more realistic and immersive user experience Speaker: Frederic Dufaux Chairman: Laurent El Ghaoui Room: Grand Amphithéâtre		

	TM4 (Special Session): Combinatorial Optimization and Its Applications 1 <i>Chairman: Viet Hung Nguyen</i> Room: Grand Amphithéâtre	TM5 (Special Session): New trends on decision models and applications 2 <i>Chairman: Imed Kacem</i> Room: Petit Amphithéâtre	TM6: Machine Learning & Big Data 4 <i>Chairman: Youcef Abdelsadek</i> Room: BN3-001
11:10-11:30	<i>A multi-objective optimization approach for generalized linear multiplicative programming</i> Minh Hieu Nguyen and Thanh Loan Nguyen	<i>Optimal Approach for Calculating Allocation Keys in a Collective Self-Consumption Operation</i> F. Blagui, M. Haddad, J.-M. Nicod, C. Varnier, N. Zerhouni	<i>Solving systems of fractional differential equations by using physics informed deep learning methods and application to a fractional order Bergman's minimal type model of insulin injection</i> Baptiste Guilbery, Aziz Belmiloudi, Mounir Haddou
11:30-11:50	<i>Managing Time Expanded Networks through Project and Lift Approaches: The Lift Issue</i> Jose-Luis Figueroa, Alain Quilliot, Helene Toussaint	<i>Stochastic optimization for integrated scheduling of electric bus trip and charging considering V2G and battery degradation</i> Ming Liu, Yueyu Ding, Feng Chu, Feifeng Zheng, Chengbin Chu	<i>Comparing Performance of Machine Learning Techniques in Predicting Financial Distress of Listed Firms in Vietnam</i> Cong Doan Truong, Thi Kim Oanh Nguyen, Tuan Tung Le
11:50-12:10	<i>Consolidation of Biomimicry and Swarm-based Metaheuristic Algorithms with Supervised Learning Neural Network for Function Approximation</i> Zhen-Yao Chen, Ming-Te Cheng, and Yun-You Tsai	* Online presentation* <i>A branch-and-price algorithm for unrelated parallel machine scheduling with a limited budget to minimize the maximum tardiness</i> Chen Jianfu , Sahli Abderrahim , Li Kai , Xiao Wei, and Chu chengbin	* Online presentation* <i>Integrating Local Learning Algorithms and Vision Transformers for Accurate Rice Yield Prediction</i> Thuy-Vi Ha-Thi and Thanh-Nghi Do
12:10-13:40	LUNCH		
	TA1 (Special Session): Combinatorial Optimization and Its Applications 2 <i>Chairman: Viet Hung Nguyen</i> Room: Grand Amphithéâtre	TA2: Optimization and Decision Making 4 <i>Chairman: Vinh Thanh Ho</i> Room: Petit Amphithéâtre	TA3 (Special Session): Uncertainty quantification and its applications in supply chain or logistics 1 <i>Chairman: Eduardo Souza De Cursi</i> Room: BN3-001
13:40-14:00	<i>Last-mile logistics in retail: maximising the number of customers served and minimising the total travel time</i> Yakov Zinder, Yefei Zhang, and Hanyu Gu	<i>Short Food Supply Chain: A Mathematical Model and Metaheuristic Algorithms</i> Vinh Thanh Ho and Adnan Yassine	* Online presentation* <i>Modeling Uncertain Travel Times in Distribution Logistics: A Case Study in Casablanca city</i>

			Khadija Ait Mamoun, Lamia Hammadi, Said Jidane, Babacar M Ndiaye, Abdessamad Elballouti, Lahcen Belyamani, Antonio Novaes, and Eduardo Souza De Cursi
14:00-14:20	<i>On the star forest polytope for 4-cactus graphs</i> Thanh Loan Nguyen, Viet Hung Nguyen, Minh Hieu Nguyen, and Thi Viet Thanh Vu	* Online presentation* <i>DMOWA-COBRA-Based Approach for Collaborative Multi-Criteria Group Decision-Making in Supply Chains</i> Ryma Zegai, Imen Khettabi, Lyes Benyoucef, and Moncef Abbas	* Online presentation* <i>A probabilistic model for facility location in humanitarian logistic: Handling demand and infrastructure uncertainty</i> Hajar Raillani, Lamia Hammadi, Said Jidane, Babacar M. Ndiaye, Vlad Barbu, Abdessamad Elballouti, Lahcen Belyamani, and Eduardo Souza De Cursi
14:20-14:40	* Online presentation* <i>A study on dominating set: NP-hardness and Polynomial Results</i> Anh Son Ta, Ngoc C.Le, Pham Le Vu, and Anh Tu Nguyen	* Online presentation* <i>Towards Sustainable and Resilient Supply Chains: The Role of Big Data Analytics and Digital Twin Technologies</i> Souad Douhane, Lahcen Tamym, Lyes Benyoucef, and Elmoukhtar Zemmouri	* Online presentation* <i>Uncertainty Quantification model for forecasting of Daily Emergency Department Arrivals</i> Hind Haboubi, Lamia Hammadi, Said Jidane, Babacar M Ndiaye, Emmanuel Pagnacco, Abdessamad Elballouti, Lahcen Belyamani, and Eduardo Souza De Cursi
14:40-14:55	COFFEE BREAK		
14:55-15:55	PLENARY TALK 4: Solving Multifacility Location Problem By DC Algorithms Speaker: Boris S. Mordukhovich Chairman: Hoai An Le Thi Room: Grand Amphithéâtre		
16:00-18:00	VISIT POMPIDOU MUSEUM		
19:30-22:00	CONFERENCE BANQUET		

Friday, June 6 (GMT Time +2)

	FM1: Optimization and Decision Making 5 <i>Chairman: Frederic Dambreville</i> Room: Grand Amphithéâtre	FM2 (Special Session): Modeling & Optimization Applications in Transportation, Charging, and Logistics: Bridging Academia and Industry <i>Chairman: Doanh Nguyen-Ngoc</i> Room: Petit Amphithéâtre	FM3: Machine Learning & Big Data 5 <i>Chairman: Hoai Minh Le</i> Room: BN3-001
08:30-08:50	<i>Law-Smooth update for the cross-entropy method: conceptual issues, perspectives and application to infrared tracking camera</i> Frederic Dambreville and Christian Musso	<i>Evaluate the transit services in Khanh Hoa province before and after expansion of bus network</i> Linh Do-Bui-Khanh, Truong Nguyen Huu, An Minh Ngoc, and Doanh Nguyen-Ngoc	<i>Deep Auto-Encoder learning of fish species clustering in the upstream sectors of the Moselle River</i> Samudranil Basak, Gerard Masson, Hoai Minh Le, and Baba Issa Camara
08:50-09:10	<i>Optimal IT and Electrical Sizing Approach for Sustainable Energy-Autonomous Datacenters</i> Benaissa Manal, Da Costa Georges, and Nicod Jean-Marc	<i>Shift or Improve Strategies in Transport: Findings from Simulating the Impacts of Low-Carbon Urban Transport Measures on Emission Reduction</i> Doanh Nguyen-Ngoc and An Minh Ngoc	<i>Fusing Multi-agent Reinforcement Learning and Fiscal Theory for Crisis Management</i> Quang Truong Dang, Bao Bui Quoc, Anh Son Ta
09:10-09:30	<i>Non-Existence of Additive Approximations for the Black-and-White Coloring Problem</i> Shira Zucker	<i>A Novel Deep Learning-based Algorithm for Mobile Robot Coverage Path Planning in Dynamic Environments Considering Energy Constraints</i> Doanh Nguyen-Ngoc, Thi Cam Giang Tran, Duc Manh Do, and Thi Thu Huyen Tran	* Online presentation* <i>Deep Learning for Hand Gesture Recognition using Channel-wise Topology Refinement</i> Dinh-Tan Pham, Cong-Hoang Diem
09:30-09:50	* Online presentation* <i>Delhi Air Quality Efficiency: A Comprehensive Evaluation Using the DEA Approach</i> Ashish Yadav, Bharti Seth, Ritu Arora, and Shalini Arora	<i>Digital Twin Platform for Green and Sustainable Management of Public Bus Systems: A Case Study in Khanh Hoa Province, Vietnam</i> Linh Do-Bui-Khanh, Doanh Nguyen-Ngoc, Nghi Huynh-Quang	* Online presentation* <i>Speech balloon and Character association for comics</i> Trung Thong Nguyen, Hong Quang Ngo, Van Tuan Doan, Thi Bich Thuy Nguyen Thi, Van Tri Vu, and Minh Thuy Ta

09:50-10:10	<p>* Online presentation* <i>An Efficient Energy Optimization Model for UAVs Coverage Path Planning</i></p> <p>Manh Cuong Nguyen and Van Thien Nguyen</p>	<p><i>Comprehensive Overview of Digital Twin Platform to Empower Communities Towards an Eco-friendly and Healthy Future: Applications in Transportation and Air Quality</i></p> <p>Doanh Nguyen-Ngoc, Linh Do-Bui-Khanh, Nghi Huynh-Quang</p>	<p>* Online presentation* <i>Reinforcement learning for solving Generalized Nash Equilibrium Problem</i></p> <p>Benjamin Benteke Longaou, Monica-Gabriela Cojocar, and Nickolas Hoover</p>
10:10-10:25	COFFEE BREAK		
10:25-11:25	<p>PLENARY TALK 5: Numerical infinities and infinitesimals in optimization Speaker: D. Yaroslav Sergeyev Chairman: Boris S. Mordukhovich</p> <p>Room: Grand Amphithéâtre</p>		
	<p>FM4: Optimization and Decision Making 6 <i>Chairman: Quang Thuan Nguyen</i></p> <p>Room: Grand Amphithéâtre</p>	<p>FM5 (Special Session): Uncertainty quantification and its applications in supply chain or logistics 2 <i>Chairman: Eduardo Souza De Cursi</i></p> <p>Room: Petit Amphithéâtre</p>	<p>FM6: Computer Vision and Image Processing <i>Chairman: Marie Luong</i></p> <p>Room: BN3-001</p>
11:25-11:45	<p><i>Online Mixed-Case Palletizing via Reinforcement Learning</i></p> <p>Sebastian Herrera, German Pantoja, Alvarez-Martinez David</p>	<p>* Online presentation* <i>Hilbertian Bayesian Optimisation</i></p> <p>Carol Santos Almonte, Oscar Sanchez Jimenez, Emmanuel Pagnacco, and Eduardo Souza De Cursi</p>	<p>* Online presentation* <i>Real-Time Student Behavior Detection in Classroom Using YOLOv8 Model</i></p> <p>Quang Thuan Nguyen, Dinh Thai Kim, Xuan Hai Le, Anh Phuong Pham</p>
11:45-12:05	<p><i>A Hybrid Alternating Nonnegative Least-Squares Method Toward Well-Conditioned Nonnegative Matrix Factorization</i></p> <p>Saman Babaie-Kafaki, Fatemeh Dargahi, and Maryam Khoshsimaye-Bargard</p>	<p>* Online presentation* <i>Energy-Efficient Job Shop Scheduling under TOU Tariffs Using Hybrid MILP and GA</i></p> <p>Assiya Zahid, Patrice Leclaire, Lamia Hammadi, Roberta Costa Affonso, and Abdessamad Elballout</p>	<p>* Online presentation* <i>Efficient Multi-Scale Attention Based On Mobilenetv4 Followed OmniSPPF And ODGC2f For Small-Scale Egg Identification</i></p> <p>Duc Quang-Anh Nguyen, Manh-Hung Ha, Duc-Minh Pham, Minh-Anh Nguyen, Ba Tung Duong Le, Lan-Anh D.t, and Phuong-Ngan Pham</p>
12:05-12:25	<p>* Online presentation* <i>A dissection method for the optimal rectangle packing problem</i></p>	<p>* Online presentation* <i>A Mixed-Integer Linear Programming Model for Efficient Supply Chain Network Design</i></p>	<p>* Online presentation* <i>Application of Artificial Intelligence in Face Physiognomy A Modern Approach to an Ancient Practice</i></p>

	Lipovetsky Alexander and Evgeny Lipovetsky	Ghita Bouchtaoui, Lamia Hammadi, Ridha Derrouiche, Roberta Costa Affonso, and Abdessamad Elballout	Duc Thong Tran and Thi Bich Thuy Nguyen
12:25-14:00	LUNCH		
14:00-15:00	PLENARY TALK 6: Advances in Non-Convex Optimization: Shuffling Methods and Momentum Techniques for Machine Learning Speaker: Lam Nguyen Chairman: Hoai An Le Thi Room: Grand Amphithéâtre		