

20/12 MONDAY		21/12 TUESDAY	
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18:00		End	

**Opening Session**

Prof. Davide La Torre (SKEMA Business School),  
Prof. Hatem Masri (University of Bahrain),  
Prof Fouad Ben-Abdelaziz (NEOMA Business School)

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**Key note 1**

"Multi-criteria sorting methods for AHP"

Prof. Alessio Ishizaka, Neoma Business School, France (chair: La Torre)

Track 1	Break	Track 2
9 "Multi-objective optimization of the flow of goods in a logistic chain via the physical internet" Salah et al. (ch:JB)		1 "Composite indicators as decision making tools: ..." El Gibari et al. (ch:AJ)
10 "A Weighted Fuzzy GP Model for Selecting the Best Design of Hybrid Energy System in Tunisia" Koubaa et al.		3 "MO fractional interval optimization problem with interval solution" Patel, et al.
34 "MO stochastic VRPTW: cash transportation vehicle routing" Alaya et al.		4 "On the existence of pareto solutions to vector pol. opt. problems with constraints" Liguojiao et al.
79 "Performance Measurement of the Integration of Reverse Flows in a Manufact. Company" Elouchdi et al.		5 "MO Programming Approach for Solving Fully Fuzzy Pentagonal LFP" Wahed Khalifa et al.
11 "MCDM combined with Factor Analysis to Rank OECD countries in Function of the Quality of Life" Eufrazio et al.		6 "A new method for optimizing fuzzy multi-objective LFP" Wahed Khalifa et al.
24 "A new discrete MC method based on strength and weakness. Application to well-being" Muñoz et al.		13 "A multi-criteria fuzzy neutrosophic decision-making model for solving the SC" Gupta

Track 1	Break	Track 2
73 "A Novel MO Feature Selection Method using Henry Gas Solubility Optimization" Soumaia et al. (ch:JB)		8 "Finite Mixture AR Parsim Models for Stock Markets during Times of Crisis" Saadaoui et al. (ch:AJ)
12 "Multicriteria interpretability driven Deep Learning" Repetto		67 "Volatility and time varying corr across stock and commodity markets: COVID-19" Kazouz et al.
40 "A Machine Learning Based Auditing Quality Measure" Ding et al.		50 "Sparsity, Accuracy and Discordant Datasets in NAS for Stock Market Prediction" Hafiz et al.
26 "Proactive and reactive approach for no-wait hybrid flow shop scheduling prob. under uncertainty" Hejer et al.		27 "Prioritization of value chain processes exposed to fraud and corruption." da Silva et al.
33 "Ordering classifier models from the PROPPAGA method: an appl to affective computing" Carvalho et al.		32 "Designing Personalized Tourism Packages: A MO Meta-Heuristic Framework" Piya et al.
2 "Flexible Manufacturing System MO simulation-based optimi: Design of Exp and GP hybridization." Abdesslem		16 "Continuous time surplus maximization for the bi-objective user equilibrium problem" Xu et al.

**Main**

Prof. Philippe Monin, SKEMA Business School, Directeur de la Faculté & Recherche

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**Key note 2:**

"Big data for social impact investing and social impact of big data"

Prof. Blanca Maria Pérez Gladish, University of Oviedo, Spain (chair: La Torre)

Track 1	Break	Track 2
30 "Multi-objective Optimization for Disruption Risk Management in Supply Chains" Singh (ch:DR)		15 "Lagrange dual. & saddle point opt. MO semi-infinite prog with vanishing constraints" Tung et al. (ch:BPG)
14 "Assessing risk of disruption of supply chains due to Covid-19 with Fuzzy VIKORSort" Khan et al.		18 "Analytical critical flow method: a reliability allocation method based MCDM" Di Bona
44 "Application of Multi-Objective Optimal Stopping Theory to Pandemic Lockdown Policies" El Hassan et al.		19 "Non-dominated solutions for multi-level MO LP problems and the adaptive method" Kaci et al.
31 "Store-Wide Space Planning Balancing Impulse and Convenience" Abdelaziz et al.		53 "Structural Characteristics of an NP-Hard Combinatorial Puzzle" Querido et al.
35 "Critic WASPAS MCDA method for Rio De Janeiro's police supplier selection problem." dos Santos et al.		22 "A Novel Rhythmic Approach in Interactive Fuzzy MOP Optimization" Torgul et al.
17 "an optimal design of berthing service quay configuration using M/M/n queuing" Fru-Weyegho et al.		23 "On approximate solutions for robust semi-inf MO conv symmetric cone optim" Alzalg et al.

Track 1	Break	Track 2
37 "Coalition Formation for Horizontal Supply Chain Collaboration: A Multiobjective Approach" Mjahed et al. (ch:HM)		20 "Extensive vs intensive options optim w.r.t air transp management in uncertainty" Goncharenko (ch:FBA)
43 "Multi objective Optimization of Supply and Transportation Decision During Pandemics" Jaafar et al.		64 "How do fuzzy voters try to manipulate?" Meddeb
55 "MO optimization of active human-robot collaboration: case study of the aircraft industry" Hémono et al.		70 "Optimal human robot collaboration in Assembly tasks" Sahnoun et al.
45 "Blockchain Enabled and MCD Aided Vaccine SC: Identifying Risks and Collaboration Practices" Gurgur		74 "Fusion of expert recommendations as ref points in MC group decision support" Skulimowski
47 "Ordering hosting services for websites from superiority and inferiority ranking MCDA" de Almeida et al.		58 "Interval value based lexicographic fuzzy GP for facility layout design parameters" Turgay
85 "SC resiliency strategies based on SC Reference Model using hybrid fuzzy DEA-AHP" Kumaresan et al.		59 "Fuzzy GP with symm. triangle membership function: closed loop SC management" Turgay

\* Please be aware that times are CET.  
\*\* titles have been abbreviated for enhanced overview.

Track 1	Break	Track 2
38 "An evol MO optim algorithm based on two reference points" Gonzalez-Gallado et al. (ch:FH)		51 "Evolutionary MO optimization algorithms for portfolio selection" González-Senent et al. (ch:JB)
41 "Non-dominated Sorting Biased Random-key Genetic Algorithm" Pauleti-Mendes et al.		57 "Socially responsible portfolio selection: an inter. intuitionistic fuzzy approach" Hanine et al.
42 "Product line design using a bi-objective Mavfly optimization" Zervoudakis et al.		60 "Ranking economies according to levels of financial inclusion using DEA" Takouda et al.
54 "MADM under Fuzzy Environment: an Online Recommender System" Gupta		61 "Comp indic of business init processes in the African entrepren ecosystem" Takouda et al.
56 "A MO flow shop scheduling problem under Resources Constraints" Laribi et al.		29 "Strategic support in [ ] investment portfolio with VFT and [ ] methods" de Almeida et al.
66 "A stochastic genetic algorithm for mining related optim problems" Amponsah et al.		

**Key note 3**

"Robust Multiobjective Optimization: Sensitivity to Uncertainty"

Prof. Matteo Rocca, Università degli Studi dell'Insubria, Italia (chair: La Torre)

Track 1	Break	Track 2
62 "Bi-objective algorithms for joint optim of transp costs and CO2 emissions" Harrir et al. (ch:DLT)		25 "On Multi Objective Primal Heuristics" Gandibleux et al. (ch:DR)
71 "AHP-TOPSIS-2N to prioritize vulnerabilities in cybersecurity" Santos et al.		39 "Solving procedure for MO dyn problem with changeable hierarchy" Trzaskalik et al.
63 "A coop. platform for the optim of cost & energy in a ML distrib. network" Benfriha et al.		48 "A parallel two-phase method for the MO knapsack problem" Chaabane et al.
75 "Production, Distribution and Inventory Management Integrated Problem" Hejer et al.		49 "A new algorithm for optimization a linear function over integer efficient set" Hamadou
81 "Bi-objective optim for joint production and maintenance scheduling" Boufelloh et al.		52 "Application of the Hardy-Littlewood Method to NP-Hard Problems" Fergussan et al.
77 "MO optim for production routing with mult prod lines and mixed fleet" Zeddami et al.		76 "Nash equilibrium as a quadratic optimization problem for annealers" Khan

Track 1	Break	Track 2
78 "Solving capacitated multi-product lot sizing with direct shipment" Benfedel et al. (ch:FH)		68 "Multi-Objective Optimization for Electrical Demand Forecasting" Insane et al. (ch:JB)
46 "Waste reduction using THOR 2 Hybrid Method: DM in Lean Healthcare" Drei et al.		7 "Incorporating an Entropy Criterion in Neural Network Models" Boreland et al.
80 "An effective approach for solving MO cap. lot sizing & energy contracts" Mechaacha et al.		69 "Parallel EDEV for Hard Optimization Problems" Manel et al.
82 "Parallel machines scheduling problem w deterioration & human resource" Sekkal et al.		36 "Optim for generative product design and manufact cost in mass custom" Kielarova et al.
83 "Job shop problem optim under comp consumption and unidir transp" Hadri et al.		28 "Speech signal enhancement based on MO optim using adapted firefly algor" Ouznadj et al.
65 "Multi-Item capacitated lot-sizing parallel res. setup t, costs, energy" Djama Maafa et al.		72 "Visualization of Bank Customers' Tweets on Product Experience" Jibri et al.
84 "MO optim for economic and environ study in poultry SC networks" Tharaoui et al.		21 "A division algorithm for optimizing over the integer efficient set" Zaidi et al.

**Key note 4**

"Interactive Approaches and Underlying Value Functions"

Prof. Murat Köksalan, Ross School of Business, University of Michigan, USA (chair: La Torre)

Legend	Chair
GENERAL	FBA: Fouad-Ben Abdelaziz
KEY NOTE	JB: Jan Broekaert
MOPGP & Industry processes	FH: Faizal Hafiz
MOPGP & Fundamentals	AJ : Aida Jebali
MOPGP & Machine Learning	DLT: Davide La Torre
MOPGP & Economics, Finance and Management	HM: Hatem Masri
	BPG: Blanca Pérez Gladish
	DR: David Rey