

GOL'26 Program

Thursday, 07 May 2026				
07h30-08h30	Welcome and registration			
08h30-09h30	Plenary Conference I: Prof. Teodor Gabriel Crainic , Université du Québec à Montréal, Title: “Operations Research for Transportation and Logistics Planning”			
09h30-10h00	Break			
10h00-12h00	Artificial Intelligence 1	Modelling, simulation and optimization 1	Blockchain and the future of Smart Ports	Air transport and logistics operations 1
	Measuring User Engagement Using Web Log Files from an E-Learning System <i>El-Mehdi Aqrchal, Naoual Chaouni Benabdellah</i>	Towards Realistic Flow Shop Scheduling: Johnson's Algorithm and the Incorporation of Human Factors <i>Hajar Nassib, Abdelhamid Zaki, Omar Fanidi</i>	A Double Machine Learning Approach to Estimate the Operational Efficiency of Container Ports <i>Jose Humberto Ablanedo-Rosas</i>	Aviation Workforce 4.0: Competences for a Sustainable and Digitalized Sector <i>Adina-Roxana Munteanu, Sorin Eugen Zaharia, Adina Petruta Pavel</i>
	Industry 5.0: between theory and practice <i>Najwa Kamal, Wafaa Dachry, Hassan Gziri</i>	Modeling and Optimization of Edge Server Location for IoT-Based Urban Traffic Control <i>Salma Ibadissen, Mohammed El Amrani</i>	Automated Smart Contract Generation Using Multi-Level Finite State Machines: A Service Agreement Case Study <i>Maxence Lambard, Cyrille Bertelle, Claude Duvallet</i>	From Isolation to Integration: The Impact of Airport Management Groups on the Performance of Eastern European Airports <i>Sorin Eugen Zaharia, Adina-Roxana Munteanu, Adina Petruta Pavel</i>
	The Capacity Supplier Selection Problem <i>Roberto Bargetto, Teodor Gabriel Crainic, Guido Perboli, Walter Rei</i>	A simulation model to schedule a remanufacturing system with returns of varying quality <i>Salma Abid</i>	Enhancing Maritime Logistics with Blockchain: Securing and Tracing Dangerous Goods in Smart Ports <i>Rim Abdallah, Cyrille Bertelle, Claude Duvallet, Jérôme Besancenot, Frédéric Gilletta</i>	Major trends in the development of airports from Central and Eastern Europe between 2010 and 2024 <i>Sorin Eugen Zaharia, Tudor Costel Bulgaru, Adina Petruta Pavel</i>
	Balancing Service and Inventory in DDMRP through SAC-Based Reinforcement Learning <i>Hamza Lahrizi, Hicham Sarir</i>	Discrete Particle Swarm Optimization algorithm applied to the Multi-Level Multi-Capacitated Facility Location Problem <i>Khalil Abbal, Mohammed El Amrani, Youssef Benadada</i>	Simulation of miner pool behaviour in blockchains using a multi-agent system <i>Aicha Ferjani, Kerne Niels, Duvallet Claude, Bertelle Cyrille</i>	Agent-Based Simulation for the Analysis and Improvement of School Evacuation <i>Luis Pinto Ferreira, Gonçalo Lobo, André Ferreira, Paulo Ávila, Hélio Castro, Marcelo Henriques</i>
12h00-14h00	Break			

Note: All times are Morocco local time (GMT+01)

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14h00-15h00	Plenary Conference: Prof. Gheith Abandah , University of Michigan and BSc Title: “Unlocking the Power of Large Language Models: Architectures, Trends, and Arabic NLP Applications”			
15h00-15h45	The Official Opening			
15h45-16h15	Break			
16h15-18h15	Artificial Intelligence and Supply Chain	Emerging trends, challenges and innovations in transportation and logistics	AI-Driven Trade Facilitation and Smart Transport Systems for Resilient Supply Chains	Joint Optimization of Production and Distribution
	Artificial Intelligence Adoption in Industrial Supply Chains: A Systematic Literature Review <i>Ouafa Barakat, Nouhayla Bouanba</i>	Integrating Routing and Three-Dimensional Loading in Heterogeneous Fleet VRPs: A Structured Synthesis and Research Directions <i>Youssef Meliani, Evren Sahin</i>	Enhancing Traceability and Compliance in Air Transport of Dangerous Goods through Distributed Ledger Technology: Policy Perspectives from Morocco <i>Fayssal Moukafi, Hiba Belgaid, Amine Dafir</i>	Warehouse Features and Activities as the Cornerstone in both the Service and Manufacturing Supply Chain Sectors in the Jordan Market <i>Moh'd Anwer AL-Shboul</i>
	Artificial Intelligence in Pharmaceutical Warehousing: Trends and Future Directions <i>Blessing Takawira, Joash Mageto</i>	On-Demand Last-Mile Delivery with Occasional Drivers: A Bi-Level Multi-Period Optimization Approach <i>Maria Elena Bruni, Sara Khodaparasti</i>	Advanced AI and optimization techniques for managing smart water distribution networks <i>Radia Hajji, Fatima ElKhoukhi</i>	A Stochastic Joint Replenishment Problem under Obsolescence <i>Ricardo Afonso, Pedro Godinho, João Paulo Costa</i>
	Generative Artificial Intelligence, Development of (New) Green Products in the Fuzzy Front End and ESG of Supply Chains in the Creative Industry in a Global South Economy <i>Selma Oliveira, Jennyfer M Ferreira</i>	Energy Transition for Small and Medium-Sized Enterprises in Quebec, Canada: Context and Solutions <i>Emma Lavoie, Nadia Lehoux, Louis Gosselin</i>	Towards a Circular Supply Chain 5.0: A Conceptual Framework Integrating Circular Economy, Intertwined Supply Networks, and Industry 5.0 <i>Sanae Tissir, Abdelkadir Charkaoui, Khadija Echefaj, Anass Cherrafi</i>	Blockchain-enabled Consent-Based Data Governance for Smart Territories <i>Mongetro Goint, Cyrille Bertelle, Duvallet Claude</i>
	What You Have Is What You Get? Authentic Environmental, Social And Governance Information To Scale Green Innovations In Responsible Supply Chain In A Global South Economy <i>João Pedro Passos da Silva, Lucas Motta, Selma Oliveira</i>	Sustainable Performance Measurement Framework for Ports 4.0 <i>Mane Guingue, Youssef Tliche</i>	Towards Improved Decision Tree interpretability via Large Language Models: A Case Study in Motorcycle Accident Severity <i>Ilyas Modni, Maissae Haddouchi, Zoubida Chorfi, Abdelaziz Berrado</i>	

Friday, 08 May 2026

08h30-09h30	Plenary Conference: Prof. Dmitry Ivanov , Berlin School of Economics and Law Title: “Supply Chain Viability and Digital Ecosystems”		
09h30-11h00	<i>Sustainable development</i>	<i>Planning and scheduling</i>	<i>Artificial Intelligence 2</i>
	Prioritizing Performance Criteria in Sustainable Intelligent Logistics: A SWARA Approach Integrating Industry 5.0, Circular Economy, and Operational Excellence <i>Saad Falih, Khadija Echefaj, Anas Cherrafi, Abdelkabar Charkaoui</i>	Developing Key Performance Indicators for Port Waste Management: A Balanced Scorecard Approach <i>ANASS HAMRAOUI, Hamid Ech Cheikh, Abdessamad Douraid, Ahmed Loukili, Sâad Lissane Elhaq, Mohammed Chaoui</i>	Artificial Intelligence in Regulatory Compliance: Comparative Analysis of Benefits and Challenges <i>Georges Bou Ghantous</i>
	Trade-offs and Synergies: Integrating Resilience and Sustainability Metrics in Agrifood Supply Chains <i>Vivekanandhan Viswanathan, Daniel Menschulin, Salma Mousannif, Christian Kruse, Fabian Behrendt</i>	Forecast-Driven Optimization Framework for Container Terminal Planning <i>Soltan Bouhachi, Fatima Ouzayd, Hamid Ech Cheikh</i>	Empowering Inclusive Digital Transformation in Industry 4.0: A Multimodal RAG-based Chatbot System for Hybrid Workforce Integration <i>Mohamed Hedi Riahi, Nardine Hanfi, Selim Rachdi</i>
	A dynamic game model of green investment under cap and trade: An initial framework in the Moroccan context <i>Fatima Zahra El Garraoui, Abdelkabar Charkaoui, Khadija Echefaj, Anass Cherrafi</i>	A Mixed-Integer Programming Model for Greenhouse Production Planning <i>Éliane Audrey Nguemaleu Tchanguoe, Nadia Lehoux, Louis Gosselin</i>	Lean management and AI tools: a new hybrid approach to banish waste and create wealth in Nursing, Healthcare education and services <i>Salima Hammadi, Mohamed Boulfia, Ahmed El Hilali Alaoui</i>
11h00-11h30	Break		
11:30-13h30	<i>Artificial Intelligence 3</i>	<i>Modelling, simulation and optimization 2</i>	<i>Project and risk management</i>
	Controlling Supply Chain Disruptions through the Democratization of Artificial Intelligence <i>Reda Saib, My Abdelouhab Salahdine</i>	A Review of Constraint Programming Applications to Integrated Scheduling and Routing Problems <i>Anass El Yaakoubi</i>	Structured Risk Matrix Assessment of UAV Threats in Airport Vicinity <i>Florin Daniel Simion, Sorin Eugen Zaharia</i>
	A multi-agent decision support system for integrated product and downstream supply chain design optimization <i>Hafssa Boudmar, Oulfa Labbi, Abdeslam Ahmadi</i>	Evaluation and Enhancement of Factory Evacuation Procedures Using Simulation <i>Tiago Texeira, André Ferreira, Paulo Ávila, Olena Ostroliad, Luís Pinto Ferreira, Alzira Mota</i>	Bridging the Gaps: Project Delivery Systems and Stakeholder Dynamics in the Quebec Construction Supply Chain <i>Basma Ben Mahmoud, Nadia Lehoux, Pierre Blanchet, Gabriel Jobidon</i>
	Supply Chain 5.0 for small and medium-sized enterprises (SMEs): A Bibliometric Analysis <i>Malebo Suzan Mulaudzi, Blessing Takawira</i>	Personalized Assignment of Operators to Workstations in Industry 5.0: A TOPSIS-Based Approach — Case Study in an Automotive Assembly Line <i>Houda Lahyani, Mariem Bouri, Abdelfettah Sedqui</i>	Quality management system in European projects <i>Ioana Filipas, François Marmier, Jean-Louis Michalak</i>
		How Can AR Enhance Maintenance Practices: An Interview Study <i>Zineb AKTEF, Anass Cherrafi, Khadija Echefaj</i>	Risk Management and Improvement of Logistics Performance: A Study of the Order-to-Cash Process in Hydrocarbon Distribution <i>Imane Moussaoui, Younes Fakhreddine El Bahi, Amine Lachheb, Rachid Saadani, Miloud Rahmoune</i>
14h00 - 15h00	Break		
15h15-16h00	Plenary Conference: Mr. Lorenzo Canonne , Hexaly, France Title: “Hexaly, a new kind of hybrid optimization solve”		
16h00-19h00	Sight-seeing tour, visit to the medina of Fez (In preparation)		
19h00-23h00	Gala Dinner		

Saturday, 09 May 2026

08h30-09h30	Plenary Conference: Prof. Abdelaziz Berrado , Ecole Mohammadia d'Ingénieurs (EMI), Morocco Title: "The Quest for Gray-Box Models: Reconciling Predictive Power with Decision Intelligence"		
09h30-09h45	Break		
09h45-11h15	From Data to Decisions: Adaptive Supply-Chain Management through Simulation, Data Analytics and Digital Twins	Air transport and logistics operations 2	Operational Research
	Optimal Subscribed Power Prediction for an Electric Vehicle Charging Station Powered by Grid and Solar Energy <i>Roman Gobinet, Mustapha Oudani, Abdérafî Charki, Anouar Makhoukh, Abdelbari Redouane</i>	Digital Twin-Driven Real-Time Decision Support in Maritime Transport: A Literature Review and Analytical Study of Emerging Big Data Paradigms <i>Hamza El Mastik, Fatima ElKhoukhi</i>	Multi-Compartment Vehicle Routing Problem for Intelligent Collection of Hospital Waste <i>Yousra Bouleft, Ahmed ElHilali Alaoui</i>
	Towards Intelligent Public Logistics Governance in Morocco: Integrating Internal Audit and Artificial Intelligence into an Applied Conceptual Model <i>Khaoula El Assassi, Redouan Daafi</i>	Reliability Analysis of Remote Air Traffic Control Towers Under Blackout Scenarios - A Case Study <i>George Tivadar, Sorin Zaharia</i>	Hybrid GRASP Approach for Energy-Efficient Flow Shop Production Scheduling in Industry 4.0 <i>Hafsa Mimouni, Abdelilah Jalid, Said Aqil</i>
	Exploring Digital Twin Applications and Maturity in Supply Chain Management: A Systematic Review <i>Hanane Ouamer, Mouhsene Fri, Fayçal Fedouaki</i>	Ground Handling in the Era of Aviation 4.0: A Digitalisation Framework for Smart Airports <i>Maria-Alexandra Stănilă, Sorin Eugen Zaharia, Adina-Roxana Munteanu</i>	A proposition of a Hybrid Machine Learning Framework for Aircraft Spare Parts Forecasting and Inventory Optimization <i>Badi Badr-eddine, Bouazaoui Oussama, Ismail Lagrat, Mahmoud Ouhdan, Driss Serrou</i>
11h15-13h05	Optimization and innovative Decision support tools for Managing Smart and Sustainable Supply Chain in Smart Cities	Intelligent Multi-Agent Systems and Metaheuristics for Logistics Management	Logistics Operations Management in Education.
	Performance Contributions of Traditional Lean and Lean-Smart in Manufacturing: A Metrics-Based Synthesis <i>Rachidi Abir, Driss Serrou, Hassan Mharzi, Rabii El Gomri</i>	Multi-Agent System for Supply Chain Management <i>Manel Neffati, Murat Afsar, Leila Merghem-Boulahia</i>	The Couscous Game: An Academic Case Study on Advancing Gamification in Operations and Supply Chain Management Education <i>Jawad Abrache</i>
	An Exact Solution for the Multi-Compartment Multi-Product Vehicle Routing Problem: A Case Study from a Tunisian Transport Company <i>Lina Becha, Kammoun Manel, Loukil Taicir</i>	Evaluating the Tribal Intelligent Evolution Optimization (TIEO) for travel route planning: a case study of the Traveling Salesman Problem <i>Nguyen Trong Hien Ton</i>	Rating-Driven Lexicon Mining for VR Learning Feedback <i>Lamyae Oulad-Ali, Naoual Chaouni Benabdellah</i>
	Optimizing Airport Security Operations through AI-Driven Face Recognition: An INTERPOL-Integrated System for Passenger Flow Management <i>Mohamed Hedi Riahi, Sarra Lachheb, Mohamed Iyed Lagha</i>	New clustering methods and hybridization with ACO algorithm for Energy Minimization Vehicle Routing Optimisation <i>Nezha Jaafî, Majda Fikri</i>	Cuckoo Search Algorithm for the Bi-objective Green Dynamic Vehicle Routing Problem in closed loop <i>Amina Berahhou, Youssef Benadada</i>
		Towards data-driven economic intelligence to optimize logistics competitiveness in the age of artificial intelligence <i>Hiba Belgaid, Fayssal Moukafi, Amine Dafir</i>	
13h00	Conference closes		