Friday April 11, 2025		
09:00	**Registration**	
10:00 10:30	**Welcoming Coffee**	
10:30 11:15	**Opening Ceremony (Room Carthage)**	
11:15 12:00	**Keynote Speech 1 (Room Carthage)** **Pr. Franck Fontanili, IMT Mines Albi, France** **Digital Twins of Patient Pathways in Hospitals: What Can They Offer Us?** **Chair: Pr. Omar Ben Ayed**	
12:00 14:30	**Lunch & Check-in**	
14:30 15:15	**Keynote Speech 2 (Room Carthage)** **Pr. Yves De Smet, Université Libre de Bruxelles, Belgium** **Are There Arguments In Favor Of Using PROMETHEE To Rank Alternatives Evaluated On Multiple Conflicting Criteria?** **Chair: Pr. Said Gattoufi**	
15:15 16:15	**Parallel Sessions A**	

A	Session A1 (Room Carthage) **Machine Learning for MCDA** Chairs : Pr. Yves De Smet & Pr. Med Ayman Boujelben	Session A2 (Room Le Laurier) **OR Applications 1** Chairs : Pr. Hassini Elkafi & Pr. Younes Boujelben	Session A3 (Room Tunis) **Vehicule Routing Problems** Chairs : Pr. Houda Derbel & Pr. Zied Jemai
15:15 15:35	Integrating Machine Learning and Multi-Criteria Decision-Making for Strategic Organizational Planning **Ahmed Cherif, Sonia Rebai**	Profitability of E-Commerce Platforms Private Brands under Agency Selling **Salma Karray, Simon Pierre Sigue**	Including Extended Cost models and Vehicle Use Restrictions for New Realistic Variants of the Split Delivery Vehicle Routing Problem **Marwa Chalgham, Racem Mellouli**
15:35 15:55	Integrating Random Forest and Spherical Fuzzy AHP for Enhanced Decision-Making Under Uncertainty **Sarra Frigui, Sonia Rebai**	Impact of dairy farmers' density on the choice of Refrigerated Tanks in Bizerte region **Inès Saidi, Rim Kelai**	New Green Mixed-Integer Linear Programming Model for the One-to-one Pickup and Delivery Problem **Hanen Aydi, Sameh Chtourou, Adnen EL-Amraoui, Ahmed Frikha, François Delmotte**
15:55 16:15	Recent Trends in Multi-Criteria Decision Making Research **Islam Hamza, Sonia Rebai**	A Homological Criterion for k-Coverage in Wireless Sensor Networks with Controlled Boundaries **Habib Ammari, Edward Strong**	Optimization of Heterogeneous Capacitated Vehicle Routing Problem for Hazardous Materials Transportation **Mariem Abdelwahed, Riadh Harizi, Mohamed Cheikh, Taicir Loukil**
16:15 16:45	**Coffee Break**	

16:45	17:45	Parallel Sessions B		
B		**Session B1 (Room Carthage)** **Machine Learning & Forcasting 1** Chairs : Pr. Luis Martínez López & Pr. Med Naceur Aziez	**Session B2 (Room Le Laurier)** **Theoritical Advances in OR** Chairs : Pr. Hedi Nabli & Pr. Abdelaziz Damak	**Session B3 (Room Tunis)** **Optimisation in Planning and Scheduling** Chairs : Pr. Taicir Loukil & Pr. Habib Ammari
16:45	17:05	Two-Stage Deep Reinforcement Learning Approach to Solving the Physician Scheduling Problem **Imen Masmoudi, Chahid Ahabchane, Safa Bhar Layeb**	Generation of Cutting Patterns Method to Solving a Bi-objective One-dimensional Cutting Stock problem **Moncef Abbas**	Energy-efficient permutation flowshop scheduling minimizing makespan vs energy consumption **Nahla Chabbah Sekma, Wiem Malek**
17:05	17:25	Machine Learning-Based Evapotranspiration Prediction and Irrigation Optimization in Tunisia **Fedya Telmoudi, Sonia Rebai, Safa Ben Salem**	Biobjective Integer Stochastic Optimization Over The Integer Stochastic Efficient Set **Mustapha Moulai**	Enhancing Sustainable Hoist Scheduling with a Multi-Objective Lexicographic Approach **Amal Sallem, Marie-Ange Manier, Sid Lamrous, Sameh Chtourou, Ahmed Frikha**
17:25	17:45	A Hybrid DEA and Machine Learning Approach for Predicting and Evaluating the Environmental Efficiency of Tunisian Thermal Power Plants **Mariem Belgaroui, Jalel Eleuchi, Olfa Kammoun**	Adaptive Group Decision Framework: Trust Dynamics in Social Networks **Sarra Frigui, Sonia Rebai**	Veterinary Visits Synchronization with Medication Delivery by Drones **Pushkar Shamik, Hassini Elkafi**
19:00		**Dinner**		
		Saturday April 12, 2025		
09:00	09:45	**Keynote Speech 3 (Room Carthage)** **Pr. Luis Martínez López, University of Jaén, Jaén, Spain** **Large Scale Group Decision Making: Analysis and Challenges for Consensus Models** **Chair: Pr. Yves De Smet**		
9:45	10:45	Parallel Sessions C		
C		**Session C1 (Room Carthage)** **Machine Learning & Forcasting 2** Chairs : Pr. Said Gattoufi & Pr. Soulef Smaoui	**Session C2 (Room Le Laurier)** **Heuristics and Metaheuristics** Chairs : Pr. Omar Ben Ayed & Pr. Moncef Abbas	**Session C3 (Room Tunis)** **Logistics & Transport Management** Chairs : Pr. Olfa Kamoun & Pr. Mounir Ben Aissa
09:45	10:05	Integrating Evapotranspiration Forecasting to Optimize Freshwater and Reclaimed Water Allocation for Sustainable Agriculture **Safa Ben Salem, Sonia Rebai, Fedya Telmoudi**	A comparative review of soccer-inspired metaheuristics for optimization problems **Roua Ben Ammar, Anis Gharbi, Mohamed Naceur Azaiez**	Optimizing Logistics for International Trade: Insights from Tunisian Case Studies in a Globalized Economy **Kaies Samet, Tarak Barhoumi, Ahmed Derbel**
10:05	10:25	Machine Learning for Algorithmic Trading: Pattern Recognition, Forecasting, and Risk Management **Ebtihel Kantaoui, Marwa Hasni, Safa Bhar Layeb**	Enhanced Soccer Match Algorithm for Solving Real-World Engineering Problems **Roua Ben Ammar, Anis Gharbi, Mohamed Naceur Azaiez**	A bayesian network model for analyzing CO_2 emissions in Tunisia's transportation sector **Wissem Ennouri**
10:25	10:45	Comparison of Photovoltaic and Wind Systems Based on ML Predictions of Solar Irradiance and Wind Speed **Amel Chebbi, Wissem Zghal, Mounir Ben Aissa**	Estimation of Distribution Algorithms for Optimization Over the Efficient Set of the Multiobjective E-commerce Program **Lamine Idir, Ali Zaidi, Mourad Azi**	Urban Logistics - Rationalization of Adaptive Policies for a More Sustainable City **Khadija Werghi, Tarek Barhoumi, Karim Kammoun**
10:45	11:15	**Coffee Break**		

		Parallel Sessions D		
11:15	12:35			
D		**Session D1 (Room Carthage)** **OR in Healthcare** Chairs : Pr. Franck Fontanili & Pr. Safa Bhar Layeb	**Session D2 (Room Le Laurier)** **OR Applications 2** Chairs : Pr. Mustapha Moulai & Pr. Hedi Nabli	**Session D3 (Room Tunis)** **Logistics & Supply Chain Management** Chairs : Pr Sonia Rebai & Pr. Med Naceur Aziez
11:15	11:35	Developing a Discrete Event Simulation Model for Maternity Service **Sayda Ben Sghaier, Rafaa Mraihi**	Evaluating Environmental and Atmospheric Influences on Tunisian PV Performance: A MCDA FDelphi-FAHP **Chedli Damak, Mohamed Ali Elleuch, Ahmed Frikha, Boukthir Haddar**	AI-Powered Optimization of Operator Assignments in Sustainable Warehousing **Eya Ben Amor, Hajer Triki, Mounir Ben Aissa**
11:35	11:55	Optimizing Emergency Department Patient Flow: A Comparative Study of Expert Systems and XGBoost in Simulation-Based Modeling **Afef Ben Brahim, Hichem Kammoun**	A Comprehensive Framework for Achieving Low-Carbon Supply Chain Management **Taycir Ben Abid, Yathreb Ezzaalouni, Heni Zribi**	Logistics Performance and Sustainability: Modeling Interactions in MENA Countries Using the CS-ARDL Approach **Firas Ben Romdhane, Khaled Ben Abdallah**
11:55	12:15	Handling Missing Data in DEA using Multiple Linear Regression Imputation method **Nour Mestouri, Ines Kanoun, Med Ayman Boujelben, Habib Chabchoub**	DSk-IHT: Achieving Deterministic and Stochastic Connected k-Coverage in Planar Wireless Sensor Networks Using Irregular Hexagonal Tessellation **Habib Ammari, Dakshanya Maddala**	Integration of Artificial Intelligence in a Multimanned Assembly Line Balancing Problem **Zainab Tkitek, Hajer Triki, Hela Moalla Frikha**
12:15	12:35	Integrating Health 4.0 Technologies for Improved Patient Flow: A Hierarchical Best-Worst Method Approach **Oumaima Fersi, Jihen Jelassi, Ahmed Frikha**	Integrating Cradle to Cradle (C2C) in Circular Business Model Innovation: A Case Study **Anwar Jlalia, Mohamed Amir Keskes, Diala Dhouib**	
12:15	14:30	**Lunch**		
14:30	15:15	**Keynote Speech 4 (Room Carthage)** **Pr. Said Gattoufi, University of Tunis, Tunisia** **Intelligent Data Enabled Analytics (IDEA) A new paradigm for research in Management Science** **Chair: Pr. Franck Fontanili**		
15:15	16:35	**Parallel Sessions E**		
E		**Session E1 (Room Carthage)** **Multicriteria Decision Aid 1** Chairs : Pr. Luis Martínez López & Pr. Diala Dhouib	**Online Session E2 (Room Le Laurier)** **Optimisation in Planning and Decision Making** Chairs : Pr. Safa Bhar Layeb & Pr. Houda Derbel	**Session E3 (Room Tunis)** **PhD Workshop 1** Chairs : Pr. Taicir Loukil & Pr. Jalel Euchi
15:15	15:35	A Data-Driven Approach to Headphone Brand Evaluation: Integrating Text Mining, Sentiment Analysis, and TOPSIS **Cyrine Ben Othmen, Sonia Rebai**	Emergency Physician Scheduling: A Decision Support Approach **Lydia Rabiaa, Chaabane Djamal**	A linear structural equation model for telework barriers and their impact on industry 5.0 **Sirine Bouaziz, Dorra Kallel, Noura Beji, Diala Dhouib**
15:35	15:55	A Multi-Criteria Group-Decision-Making Approach For Risk assessement In The Pharmaceutical Supply Chain Under Uncertainty **Wiem Daoud Benamor, Hela Moalla Frikha**	Effective Models For Hajj Scheduling And Transportation Problems **Mahmoud Zennaki, Ali Kies**	Optimized Bi-Objective Genetic Algorithm with Machine Learning Integration for Solving the Capacitated Examination Timetabling Problem **Syrine Sedki, Abdelkarim Elloumi, Nacim Yanes**
15:55	16:15	MCDM Model for Sustainable Hybrid Renewable Energy System Design under Uncertain Environment **Zainab Koubaa, Adnen El Amroui, Ahmed Frikha, François Delmotte**	Enhancing AHP Consistency through Game Theory: An Approach Using Shapley Values for Marginal Adjustment **Mohamed Aziz Srairi, Sonia Rebai**	Vehicle routing optimization with time windows for the home health care **Ahlem Fkiri, Mohamed Salim Amri Sakhri, Neila Rjaibi**
16:15	16:35	A Novel Two-Stage C-H-SWARA Method for MCDM: Application in Photovoltaic Panel Selection **Mejda Bouzid, Mohamed Ali Elleuch, Ahmed Frikha**	Solving production planning problem using multi-objective programming **Zainab Alwaeli**	Identification and Evaluation of Barriers to the Adoption of Industry 4.0 Technologies **Samah Amamou, Noura Béji, Ahmed Frikha**
16:35	19:00	**Networking & discussion time**		
19:00		**Dinner**		

		Sunday April 13, 2025		
09:00	09:45	**Keynote Speech 5 (Online; Room Carthage)** **Pr. Dmitry Ivanov, University of HWR-Berlin, Germany** **Integration of Operations Research With AI: Digital Supply Chain Twins** **Chair: Pr. Mohamed Naceur Aziez**		
9:45	11:05	**Parallel Sessions F**		
F		**Session F1 (Room Carthage)** **Multicriteria Decision Aid 2** Chairs : Pr. Ahmed Frikha & Pr. Med Ayman Boujelben	**Online Session F2 (Room Le Laurier)** **Advanced Models in Optimisation & Sustainability** Chairs : Pr. Sonia Rebai & Pr. Soulef Smaoui	**Session F3 (Room Tunis)** **PhD Workshop 2** Chairs : Pr. Hichem Kamoun & Pr. Diala Dhouib
09:45	10:05	A Trust-Guided Consensus Optimization Model for MCDM in Large-Scale Networks **Sarra Frigui, Sonia Rebai**	Advancing Decision-Making with IVIF EDMAV Method **Sirine Boujelben, Hela Moalla Frikha**	Prioritizing Intelligent Transportation Systems for Road Safety in Tunisia: A Hybrid MCDM Approach **Mohamed Yessine Naifar, Ahmed Frikha**
10:05	10:25	Multi-Criteria Decision Support for Fault Management in Smart Manufacturing Systems using Fuzzy QFD and Fuzzy TOPSIS Methodology **Mouna Regaieg Cherif , Hela Moalla Frikha**	Optimizing Cross-Docking Operations in Battery-Swappable Truck Fleets: A Mathematical Approach **Amna Altaf, Adnen El Amrroui, François Delmotte, Christophe Lecoutre**	Analyzing the Impact of E-Commerce on Apparel Supply Chain: A Multi-Criteria Approach **Firass Mbarki, Noura Béji, Dorra Kallel**
10:25	10:45	RASS-RATSI Sort B: A RASS-RATSI- based method for sorting problems **Emna Zouaghi, Abir Ouhibi, Hela Moalla Frikha**	A Variable Neighborhood Research Algorithm for Integrated Production-Inventory Routing Problem with Proportional Emission Carbon Considerations **Amel Ketata, Houda Derbel**	A multi-criteria analysis to assess key factors affecting olive oil quality in the Sfax region **Fedy Boujelben, Noura Béji, Ahmed Frikha**
10:45	11:05	Improved TOPSIS-Based Multi-Criteria Decision Analysis for Sustainable Transport Equipment Deployment **Yasmine Bouaziz Abdelkefi, Sonda Elloumi, Diala Dhouib**	A New Algorithm for determinating the whole set of Integer Efficient Stochastic Solutions **Fatma Mebrek, Chaabane Djamal**	Development of a Multi-Capital Sustainability Dashboard for the Agro-Food Supply Chain in Tunisia **Sabrine Chtioui, Alaeddine Zouari, Fatma Lehyani**
11:10	11:30	**Closing Cermony & Awards**		
11:30	12:00	**Closing Reception & Buffet**		
12:00		**Check Out**		