GOL'20 – October, 28-30, 2020
The 5th edition of the IEEE International Conference on
Logistics Operations Management
GOL'20

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

Wednesday, October 28, 2020	
08h45-09h15	• **Prof. Youssef BENADADA**, ENSIAS, Mohammed V University of Rabat, Morocco (General Chair) • **Prof. Ilham BERRADA**, ENSIAS, Mohammed V University of Rabat, Morocco (ENSIAS College Dean) • **Prof. Jaouad BOUKACHOUR**, Le Havre University, France (TPC Chair)
09h15-10h15	Plenary Conference : ***Prof. Ammar Oulamara,*** Faculty of Science and Technology, Lorraine University, France Title : *"Ecosystem of Electric vehicle: from smart grid to logistics"* Session Chair: ***Prof. Ahmed Alaoui El Hilali***
10h15-10h30	**Break**

10h30-12h35	***Session S1W1 : Hospital and pharmaceutical logistics*** Session chairs *: **Prof. B. Dkhissi, Prof. M. El Amraoui***	***Session S2W1 : Uncertain models*** Session chairs : ***Prof. L. Ouzizi, Prof. A.A. El Hilali***
	S1W1.1 M. Belhor, A. El Amraoui, F. Delmotte and A.Jemai, *"A New MIP Model and Machine Learning Approach for Home Health Care : Optimization of Cancer Treatment Process by Chemotherapy"*	*S2W1.1* **M. Pop, O. Proștean and G.Proștean,** *"Minimax Strategy for Lane Choice Prediction in Markovian Traffic Modeling"*
	S1W1.2 M. **Bazirha, A. Kadrani and R.Benmansour,** *"Daily scheduling and routing of home health care with stochastic travel and service times"*	*S2W1.2* **Z. Zenkova, W. Musoni and S.Tarima,** *"Accounting for deficit in ABC-XYZ analysis"*
	S1W1.3 S. Makboul, A. Abbassi and A.A.ElHilali, *"The Robust Nurse Scheduling Problem"*	*S2W1.3* **S. Tarima and Z. Zenkova,** *"The Use of Uncertain Additional Information in Newsvendor Models"*
	S1W1.4 M. El Abdellaoui, Y. Moflih *"Resilience and sustainability in supply chains: Assessments by moderating effect of vulnerability and performance – A study on hospital sector in Morocco"*	*S2W1.4* **J. B. Nsekuye, A. Elouadi and D.Gretete,** *"Conception of Twisting Satellite Dispatching System (TSDS)"*
	S1W1.5 A. Haial, A. Berrado and L.Benabbou, **"***Managing Stakeholder Participation in Transport Decision Making: Perspective of Public Pharmaceuticals Supply Chain in Morocco"*	*S2W1.5* **S. Ayouche, R.Ellaia and M. Ennatiqi,** *"Morphological filters for global large scale optimization"*
12h35-14h00	**Break**	

14h00-15h15	**Session S1W2 : Machine Learning** _Session chairs : Prof. L. Benabbou, Prof. A. ElAfia_	**Session S2W2 : Automotive industry** _Session chairs : Prof. A. Berrado, Prof. F-Z.Mhada_
	_S1W2.1_ **S. El Mekkaoui, L. Benabbou and A. Berrado**, _"A Systematic Literature Review of Machine Learning Applications for Port's Operations"_	_S2W2.1_ **S. Mansouri, L. Ouzizi, Y. Aoura and M. Douimi,** _"Tactical horizon production planning in the automotive industry"_
	_S1W2.2_ **M.A. Ben Rabia and A.Bellabdaoui**, _"Simulation as a decision-making tool in a Business analytics environment"_	_S2W2.2_ **H. Elbaz and A. Elhilali Alaoui,** _"The optimal location of the electric vehicle infrastructure utilizing wireless charging in a multipath network, round-trip"_
	_S1W2.3_ **M.I. Mahraz, L. Benabbou and A.Berrado,** _"Is Machine Learning Revolutionizing Supply Chain?"_	_S2W2.3_ **H. Nissoul, T. El Harrouti, D. Serrou and Abdellah Abouabdellah**, _"Impact of maintenance 4.0 on the performance of the production function: Application to the automotive industry in Morocco"_
15h15-15h30	**Break**	
15h30-16h30	Plenary Conference _: **Prof. Elkafi Hassini,** McMaster University, Canada_ Title _: "Optimization with big data: Applications to supply chain management"_ Session chair : **Prof. Fatima-Zahra Mhada**	
16h30-16h45	**Break**	
16h45-18h25	**Session S1W3 : General Pickup and Delivery Problem** _Session chairs : **Prof. J-F Côté, Prof. G. Bencheikh**_	**Session S2W3 : Production and inventory management** _Session chairs : **Prof. F. Ouzayd, Prof. R. Chihab**_
	_S1W3.1_ **K. Ouaddi, F-Z. Mhada, Y. Benadada.** _Etude comparative entre trois méthode de résolution du problème de tournées de véhicules dynamique mutli-tours avec overtime (MTDVRPOT)_	_S2W3.1_ **A. Oukil,** _"Designing efficient material handling systems: a two-stage approach based on DEA cross-efficiency"_
	_S1W3.2_**K. Bouanane, Y. Benadada, M.ElAmrani**, _"Multi-plant Production Routing Problem with Simultaneous Delivery and Pickup"_	_S2W3.2_ **A. Lorenzetti, N. Lehoux and S.Menard**, _"Solutions innovantes issues de la préfabrication multiétage en béton et en acier : Une revue de la littérature"_
	_S1W3.3_ **A. Berahhou and Y. Benadada.** _"Dynamic Vehicle Routing Problem with Simultaneous Delivery and Pickup: Formulation and Resolution"_	_S2W3.3_ **S. Delisle and N. Lehoux,** _"Allocation optimisée de la production par une meilleure coordination interdépartementale : Cas d'études dans le secteur forestier"_
		_S2W3.4 (75) :_ **K. Abbal, Y. Benadada and M.ElAmrani** _"Bi-level Multicapacited Facility location Problem"_

Thursday, October 29, 2020

09h00-10h00	
10h00-10h10	**Break**

	Session S1T1 : Metaheuristics Session chairs : **Prof. A. Bellabdaoui, Prof. A. A. El Hillali**	**Session S2T1 : Sustainable and reverse logistics** Session chairs : **Prof. Ouzineb, Prof. R. Ellaia**
10h10-12h05	**S1T1.1** A. Benaini and A. Berrajaa, *"Parallel Genetic Algorithmon on GPU for the Robust Uncapacitated Single Allocation p-hub Median Problem with discret scenarios"*	**S2T1.1** C. Fergani, A. El Bouzekri El Idrissi, S. Marcotte and A. Hajjaji, *"Production modeling towards sustainable hyperconnected logistics"*
	S1T1.2 L. Rhanimi Karim, R. Ellaia and T.El-Ghazali *"Kriging-Based Multi-objective Infill Criterion using NSGA-III for Expensive Black-Box Functions"*	**S2T1.2** S. Hammadi and B. Herrou, *"Maintenance logistics management: a new sustainable model to activate the human potential"*
	S1T1.3 H. Semaa and F. Riane, *"Genetic algorithm-based heuristic for flexible cash collection scheduling to optimize working capital"*	**S2T1.3** S. Elliazidi and B. Dkhissi, *"Optimization of green reverse logistics network using mathematical programming: case of medical waste"*
	S1T1.4 L. Leghrari, N. El Khattabi, B.Ahiod and Y. Elbenani. *"Mining Tourism as An Orienteering Problem: A Real-World Data Case"*	**S2T1.4** A. Rassil, A. Charkaoui, A. Echchtabi and A. El Bouchti, *"Performance Assessment of Sustainable Procurement based on ISO 20400 Standard"*
	S1T1.5 S. Larioui, M. Reghioui, and A.ElFallahi, *"A tabu search and an evolutionary local search for the Vehicle routing problem with cross-docking"*	**S2T1.5** L. Belhocine, M. Dahane and M. Yagouni, *Heuristic Based Strategy for Multi-Components Products Recovery and Remanufacturing*
12h05-14h00	**Break**	

	Session S1T2 : Smart Process Management in Transport and Logistics Session chairs : **Prof. N. Sbihi, F. Ouzayd**	**Session S2T2 : Distribution** Session chairs : **Prof. M. Oudani, Prof. A. Aoukil**
14h00-16h05	**S1T2.1** C. Ben Abdallah, A. El Amraoui, F.Delmotte and A. Frikha, *"An integrated rough-DEMATEL method for sustainability risk assessment in agro-food supply chain"*	**S2T2.1** N. Sbai, A. Berrado and L.Benabbou, *"An AHP Based Approach for Multi-echelon Inventory System Selection: Case of Distribution Systems"*
	S1T2.2 A. Laassiri, *"Dynamic dimensioning of logistic resources: Case of stocks Moroccan multinational company"*	**S2T2.2** Adnan A. Elhilali and Y. Benadada, *"Selective and dynamic distribution_Petrol Secondary Distribution"*
	S1T2.3 N. Schmidtke, F. Behrendt, M.Wagner, A. Rettmann and T. Ansorge, *"Technology Assessment for Desiging Smart Logistics Zones"*	**S2T2.3** S. A. Khan, A. Waqar and A.Ubaid, *"A Decision Support System for Logistics Performance Evaluation of Courier Company"*
	S1T2.4 F. Jelti, R. Saadani and M.Rahmoune, *"Assessment of road transport in Morocco in energetic terms using the DMAIC approach"*	**S2T2.4** H. El Raoui, M. Oudani and A.ElHilali Alaoui, *"Perishable food distribution in urban area based on real-road network graph"*
		S2T2.5 Y. Bouleft and A. Elhilali Alaoui *"Collection and transport of waste types by compartmentalised vehicles"*

Friday, October 30, 2020

09h30-11h35	**Session S1F1 : Global Supply Chain** Session chairs : *Prof. F. El Khoukhi,* ***Prof. Marie-Laure Baron***	**Session S2F1 : Economic models** Session chairs : *Prof. S. El Bernoussi,* ***Prof. A. El Merouani***
	S1F1.1 **Y. El Bouazzaoui, M. Abou Elala, S.A. Kebe and F. Mimouni,** *" Environmental impact assessment in the case of pooling Moroccan hydrocarbon supply chain resources"*	*S2F1.1* **F. Tamtam and A. Tourabi,** *"Agile workforce capabilities in Moroccan companies: Criteria and practices"*
	S1F1.2 **Z. Chorfi, L. Benabbou and A. Berrado,** *"Composite indicators for assessing health care supply chains"*	*S2F1.2* **H. Errousso and N. Malhene,** *"Une gestion dynamique du système de stationnement urbain : ses atouts et ses freins conformément au modèle économique Canvas"*
	S1F1.3 **K. Azzouz, J. Arif and M. B. Benboubker**, *"Suitability of the offer of the logistics service providers according to the sectors: the case of Morocco"*	*S2F1.3* **Z. Edrissi, O. Bouksour and Z. Beidouri,** *"Airport check-in process: proposal of a methodological framework for a generic model"*
	S1F1.4 **M. El Hijazi and O. El Amili,** *"Performance Supply Chain et santé sécurité au travail : Identification des risques professionnels dans une chaîne logistique"*	*S2F1.4* **A. Gounni, N. Rais and M. Azzouzi Idrissi,** *"A new car-following model considering the effect of complex driving behavior"*
	S1F1.5 **H. Bouayad, L. Benabbou and A. Berrado,** *"A fuzzy TOPSIS based approach for alignment of information technology strategy in supply chain"*	*S2F1.5* **Parisa Dolati** *On-Demand Transport for Persons with Disabilities in France*
11h35-14h00	**Break**	
14h00-15h00	Plenary Conference *: Prof. Issmail El Hallaoui, Polytechnique Montreal, Canada* Title : *"PIP Solver 2.0: Theory and Applications"* Session chair : *Prof. Youssef BENADADA*	
15h00-15h15	**Break**	
15h15-17h40	**Session S1F2 : Synchromodality Transport Systems** Session chair : *Prof. J. Boukachour,* ***Prof. Claude Duvallet***	**Session S2F2 : Physical Internet** Session chair : *Prof. F-Z.Mhada* ***Prof. M. Nakechband***
	S1F2.1 **A. Benantar, M. Nezar Abourraja, J.Boukachour, D.Boudebous and C. Duvallet,** *"Towards a syncrhronization approach for container processing with drayage operations in rail-road terminals"*	*S2F2.1* **J. El Ouadi and N. Malhene,** *"Internet Physique : un paradigm déclencheur des systems de transport mixte en ville"*
	S1F2.2 **A. El Yaagoubi, J. Boukachour and A.Elhilali Alaoui** *"A Heuristic Approach For Solving Container-on-Barge Stowage Planning Problem Based On Bin-Packing First-Fit Algorithm"*	*S2F2.2* **M. Nakechbandi and J-Y. Colin,** *Studying the Rerouting of Empty Carriers during their Return Trips to Manage Rare Mobile Resources in a Physical Internet*
	S1F2.3 **C. Razouk, Y. Benadada and J.Boukachour,** *"New Approach for solving the Internal Truck containers transfert Problem"*	*S2F2.3* **S. Elhamdi, A. Abouabdellah, M.Oudani,** *Efficient Simulated Annealing Algorithm for Wireless Sensors Location in Logistics 4.0*
	S1F2.5 **C. Ouedraogo, A. Montarnal and D. Gourc,** *"Traceability and Risk Management in Container Transport: A Review of methods and technologies"*	*S2F2.4* **F-Z. Dabaj, S. Mansouri, L. Ouizizi and Y.Aoura,** *Dynamic planning in the composites industry : Assessment and initial findings*
17h40-18h00	***Closing of the conference***	