Aida JEBALI

Professeur

Académie : Digitalisation

Centre de recherche : SKEMA Centre for Analytics and Operations

Campus : Paris

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Intérêts de recherche

Operations management, Operations research, Supply chain management, Maritime logistics, Management of health services, Supply chain resilience, Sustainable supply chain

Formation

2023	Habilitation à Diriger des Recherches en Génie Industriel, Université Grenoble Alpes, France
2004	Doctorat en Génie Industriel, Grenoble INP, France
2000	Master of Science, Génie Industriel, Grenoble INP, France
1999	National Diploma of Engineer with a Major in Industrial Engineering, Ecole Nationale d'Ingénieurs de Tunis, Tunisie

Expérience Professionnelle

Positions académiques principales

Depuis 2024	Professeur, SKEMA Business School, France
2019 - 2023	Associate Professor of Operations and Supply Chain Management, Digitalization academy, SKEMA Business School, France
2018 - 2019	Associate Professor, Department of Systems Engineering (ISYS), ESIEE Paris, France
2016 - 2018	Assistant Professor, Department of Industrial Engineering and Engineering Management, College of Engineering, University of Sharjah, Emirats Arabes Unis
2014 - 2016	Chercheur, Masdar Institute of Science and Technology, Emirats Arabes Unis
2011 - 2013	Assistant Professor, Business Administration Department, College for Women, Prince Sultan University, Arabie Saoudite
2005 - 2011	Assistant Professor, Industrial Engineering Department, Ecole Nationale d'Ingénieurs de Tunis, Tunisie

Contrats de recherche, prix et distinctions

Prix et distinctions

2009	High Level Scientific Stay, French Ministry of Foreign Affairs, France
2007	High Level Scientific Stay, French Ministry of Foreign Affairs, France
2000	PhD Scholarship Award of the French Ministry of Foreign Affairs, French Ministry of Foreign Affairs, France

1999 National scholarship for Doctoral Studies of the Tunisian Ministry of Higher Education and Scientific Research, Tunisian Ministry of Higher Education and Scientific Research, Tunisie

Publications

Articles académiques revus

BRUSSET, X., JEBALI, A., LA TORRE, D. et LIUZZI, D. (2025). Production optimization in the time of pandemic: an SIS-based optimal controlmodel with protection effort and cost minimization. *Annals of Operations Research*, 344, pp. 79-102.

DUPRÉ, A., JOUINI, O., LAMÉ, G., XIE, X., JEMAI, Z., LEGROS, B. ... BOTREL, T. (2025). Machine learning-enhanced prediction of operating room occupation time and length of stay: a retrospective cohort study on emergency surgery care pathways. *Journal of Clinical Monitoring and Computing*, 39, pp. 1215–1225.

ALJUNEIDI, T., PUNIA, S., JEBALI, A. et NIKOLOPOULOS, K. (2024). Forecasting and planning for a critical infrastructure sector during a pandemic: Empirical evidence from a food supply chain. *European Journal of Operational Research*, 317(3), pp. 936-952.

BRUSSET, X., JEBALI, A. et LA TORRE, D. (2023). Production optimisation in a pandemic context. *International Journal of Production Research*, 61(5), pp. 1642-1663.

BRUSSET, X., IVANOV, D., JEBALI, A., LA TORRE, D. et REPETTO, M. (2023). A dynamic approach to supply chain reconfiguration and ripple effect analysis in an epidemic. *International Journal of Production Economics*, 263, pp. 108935.

KENAN, N., JEBALI, A. et DIABAT, A. (2022). The Integrated Quay Crane Assignment and Scheduling Problems with Carbon Emissions Considerations. *Computers & Industrial Engineering*, 165, pp. 107734.

BRUSSET, X., JEBALI, A., LA TORRE, D. et MAZAHIR, S. (2022). Optimal Pollution Control in a Dynamic Multi-echelon Supply Chain. *Environmental Modeling and Assessment*, 27, pp. 585-598.

HAMMAMI, S. et JEBALI, A. (2021). Designing modular capacitated emergency medical service using information on ambulance trip. *Operational Research: An International Journal*, 21, pp. 1723-1742.

DIABAT, A. et JEBALI, A. (2021). Multi-product and multi-period closed loop supply chain network design under take-back legislation. *International Journal of Production Economics*, 231, pp. 107879.

SAFRA, I., JEBALI, A., JEMAI, Z., BOUCHRIHA, H. et GHAFFARI, A. (2021). The beneficial effect of information sharing in the integrated production–distribution planning of textile and apparel supply chain. *RAIRO - Operations Research*, 55(3), pp. 1171-1195.

BOUJEMAA, R., JEBALI, A., HAMMAMI, S. et RUIZ, A. (2020). Multi-period stochastic programming models for two-tiered emergency medical service system. *Computers & Operations Research*, 123, pp. 104974.

SAFRA, I., JEBALI, A., JEMAI, Z., BOUCHRIHA, H. et GHAFFARI, A. (2019). Capacity planning in textile and apparel supply chains. *IMA Journal of Management Mathematics*, 30(2), pp. 209-233.

BOUJEMAA, R., JEBALI, A., HAMMAMI, S., RUIZ, A. et BOUCHRIHA, H. (2018). A stochastic approach for designing two-tiered emergency medical service system. *Flexible Services and Manufacturing Journal*, 30, pp. 123-152.

KENAN, N., JEBALI, A. et DIABAT, A. (2018). An integrated flight scheduling and fleet assignment problem under uncertainty. *Computers & Operations Research*, 100, pp. 333-342.

KENAN, N., DIABAT, A. et JEBALI, A. (2018). Codeshare agreements in the integrated aircraft routing problem. *Transportation Research - Part B: Methodological*, 117(Part A), pp. 272-295.

KENAN, N., JEBALI, A. et DIABAT, A. (2018). The integrated aircraft routing problem with optional flights and delay considerations. *Transportation Research - Part E: Logistics and Transportation Review*, 118, pp. 355-375.

JEBALI, A. et DIABAT, A. (2017). A Chance-constrained operating room planning with elective and emergency cases under downstream capacity constraints. *Computers & Industrial Engineering*, 114, pp. 329-344.

AL-DHAHERI, N., JEBALI, A. et DIABAT, A. (2016). A simulation based Genetic Algorithm approach for the quay crane scheduling under uncertainty. *Simulation Modelling Practice and Theory*, 66, pp. 122-138.

AL-DHAHERI, N., JEBALI, A. et DIABAT, A. (2016). The quay crane scheduling problem with nonzero crane repositioning time and vessel stability constraints. *Computers & Industrial Engineering*, 94, pp. 230-244.

JEBALI, A. et DIABAT, A. (2015). A stochastic model for operating room planning under capacity constraints. *International Journal of Production Research*, 53(24), pp. 7252-7270.

TLAHIG, H., JEBALI, A., BOUCHRIHA, H. et LADET, P. (2013). Centralized Versus Distributed Sterilization Service: A location-allocation Decision Model. *Operation Research for Healthcare*, 2(4), pp. 75-85.

TLAHIG, H., JEBALI, A. et BOUCHRIHA, H. (2009). A two-phased approach for the centralization versus decentralization of hospital sterilization service department. *European Journal of Industrial Engineering*, 3(2), pp. 227-246.

JEBALI, A. et BOUCHRIHA, H. (2007). Evaluation de deux stratégies de planification des interventions dans un bloc opératoire central. *Logistique & Management*, 15(1), pp. 27-36.

JEBALI, A., ALOUANE, A.H. et LADET, P. (2006). Operating room scheduling. *International Journal of Production Economics*, 99(1-2), pp. 52-62.

JEBALI, A., LADET, P. et ALOUANE, A.H. (2004). Une méthode pour l'ordonnancement du bloc opératoire. *Journal Européen des Systèmes Automatisés*, 38(6), pp. 657-689.

Articles académiques non revus

TLAHIG, H., BOUCHRIHA, H., JEBALI, A., LADET, P. et TAGGIASCO, N. (2009). Etude de l'externalisation du secteur de stérilisation hospitalière : une analyse par les coûts. *Gestions Hospitalières*, pp. 1-6.

Actes d'une conférence

DAHMANI, S., BEN-AMMAR, O. et JEBALI, A. (2021). Resilient Project Scheduling Using Artificial Intelligence: a Conceptual Framework.

KENAN, N., JEBALI, A. et AL DHAHERI, N. (2020). The Integrated Quay Crane Assignment and Scheduling Problems under Carbon Taxation.

BOUJEMAA, R., HAMMAMI, S., JEBALI, A., BOUCHRIHA, H. et RUIZ, A. (2017). A stochastic programming model for solving multi-period ambulance relocation problem in two-tiered EMS system.

JEBALI, A., BENJOMAA, R. et HAMMAMI, S. (2013). A stochastic programming model for ambulance location allocation problem in the Tunisian context.

JEBALI, A., HAMMAMI, S. et BENJOMAA, R. (2012). A mathematical model for ambulance location-allocation in the Tunisian context.

JEBALI, A. et ANIBA, S. (2012). A stochastic approach for operating room planning and sequencing under uncertainty.

JEBALI, A., SAFRA, I., BOUCHRIHA, H., GHAFFARI, A. et JEMAI, Z. (2012). Approche intégrée de planification de la production et de la distribution avec partage de l'information.

ANIBA, S. et JEBALI, A. (2011). Approches stochastiques pour la planification des interventions au bloc opératoire.

JEBALI, A., SAFRA, I., JEMAI, Z., BOUCHRIHA, H. et GHAFFARI, A. (2011). Planification séquentielle tactique-opérationnelle d'une chaine logistique textile.

JEBALI, A. et ANIBA, S. (2011). A stochastic approach for operating room planning with uncertain surgical case durations.

Présentations dans des conférences

PINTO, G., JEBALI, A., DEMEULEMEESTER, E. et RUIZ, A. (2025). Operating room scheduling under limited turnover staff. Dans: ORAHS 2025. Trondheim.

PINTO, G., JEBALI, A. et DEMEULEMEESTER, E. (2025). Multi-scenario simulation-optimization approach for operating room scheduling. Dans: EURO 2025. Leeds.

JEBALI, A., ZAHMATKESH, D. et DI MASCOLO, M. (2024). Operating room scheduling with balanced sterilization activities. Dans: ORAHS 2024. Turin.

PINTO, G., JEBALI, A. et DEMEULEMEESTER, E. (2024). Operating room scheduling with consideration of the post-anesthesia care unit: a simulation study. Dans: ORAHS 2024. Turin.

BOUJEMAA, R., HAMMAMI, S. et JEBALI, A. (2017). A stochastic programming model for solving multi-period ambulance relocation problem in two-tiered EMS system. Dans: International Conference on Computers & Industrial Engineering. Lisbon.

AL-DHAHERI, N., JEBALI, A. et DIABAT, A. (2015). The quay crane scheduling problem with vessel's stability consideration: formulation and heuristic solution approach. Dans: ISERC (Industrial & Systems Engineering Research Conference). Nashville.

BENJOMAA, R., HAMMAMI, S. et JEBALI, A. (2013). A stochastic programming model for ambulance location allocation problem in the Tunisian context. Dans: IESM (International conference on Industrial Engineering and Systems Management). Rabat.

SAFRA, I., BOUCHRIHA, H., GHAFFARI, A. et JEBALI, A. (2012). Approche intégrée de planification de la production et de la distribution avec partage de l'information. Dans: IEEE Conference on Logistics Operations Management. Le Havre.

JEBALI, A. et ANIBA, S. (2012). A stochastic approach for operating room planning and sequencing under uncertainty. Dans: ILS (International Conference on Information Systems, Logistics and Supply Chain). Québec.

JEBALI, A., HAMMAMI, S. et BENJOMAA, R. (2012). A mathematical model for ambulance location-allocation in the Tunisian context. Dans: ICCRK (International Conference on Computer Related Knowledge). Sousse.

JEBALI, A. et ANIBA, S. (2011). A stochastic approach for operating room planning with uncertain surgical case durations. Dans: IESM (International conference on Industrial Engineering and Systems Management). Metz.

ANIBA, S. et JEBALI, A. (2011). Approches stochastiques pour la planification des interventions au bloc opératoire. Dans: CIGI (Congrès International de Génie Industriel). St-Sauveur.

SAFRA, I., JEBALI, A. et JEMAI, Z. (2011). Planification séquentielle tactique-opérationnelle d'une chaine logistique textile. Dans: CIGI (Congrès International de Génie Industriel). St-Sauveur.

Autres activités de recherche

Editeur associé d'une revue

Depuis 2025	International Journal of Integrated Supply Management
Depuis 2023	IMA Journal of Management Mathematics

Relecteur pour :

European Journal of Operational Research, Computers & Industrial Engineering, RAIRO - Operations Research, International Journal of Production Economics, International Journal of Production Research, Computers & Industrial Engineering, Transportation Research - Part E: Logistics and Transportation Review, Annals of Operations Research, Applied Mathematical Modelling, Computers & Industrial Engineering, Omega, International Journal of Production Economics, Annals of Operations Research, Applied Mathematical Modelling, Computers & Industrial Engineering, Socio-Economic Planning Sciences: The international Journal of Public Sector Decision-Making, Computers & Industrial Engineering, Omega

Supervision de thèses / HDR

Depuis 2022	G. PINTO, SKEMA Business School, Doctorat, Co-directeur de thèse
2025	M. E. H. MESSABIS, École des Mines de Saint-Étienne, Doctorat, Rapporteur
2025	B. DJAHEL, Université de Lorraine, Doctorat, Rapporteur
2024	A. ALTAF, Université d'Artois, Doctorat, Rapporteur
2023	H. NOUIRA, Doctorat, Rapporteur
2022	L. WANG, Doctorat, Membre de jury
2018	R. BOUJEMAA, Ecole Nationale d'Ingénieurs de Tunis, Doctorat, Co-directeur de thèse
2017	N. KENAN, Doctorat, Co-directeur de thèse
2013	I. SAFRA, Doctorat, Co-directeur de thèse
2009	H. TLAHIG, Doctorat, Co-directeur de thèse