Aida JEBALI

Professor

Academy: Digitalization

Research center: SKEMA Centre for Analytics and Operations

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Research interests

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

Education

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

Experience

Full-time academic positions

Since 2024	Professor of Operations and Supply Chain Management, Digitalization academy, 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, United Arab Emirates
2014 - 2016	Research Scientist, Masdar Institute of Science and Technology, United Arab Emirates
2011 - 2013	Assistant Professor, Business Administration Department, College for Women, Prince Sultan University, Saudi Arabia
2005 - 2011	Assistant Professor, Industrial Engineering Department, Ecole Nationale d'Ingénieurs de Tunis, Tunisia

Research grants, Awards and Honors

Awards and Honors

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, Tunisia

Publications

Peer-reviewed journal articles

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

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

KENAN, N., DIABAT, A. and 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. and 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. and 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. and 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. and 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. and 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. and 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. and 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. and 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. and LADET, P. (2006). Operating room scheduling. *International Journal of Production Economics*, 99(1-2), pp. 52-62.

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

Non peer-reviewed journal articles

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

Conference proceedings

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

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

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

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

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

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

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

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

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

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

Conference presentations

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

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

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

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

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

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

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

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

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

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

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

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

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

Other research activities

Senior or associate editor

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

Reviewer for:

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

PhD supervision

Since 2022	G. PINTO, SKEMA Business School, PhD thesis, Thesis co-director
2025	M. E. H. MESSABIS, École des Mines de Saint-Étienne, PhD thesis, Thesis Reviewer
2025	B. DJAHEL, Université de Lorraine, PhD thesis, Thesis Reviewer
2024	A. ALTAF, Université d'Artois, PhD thesis, Thesis Reviewer
2023	H. NOUIRA, PhD thesis, Thesis Reviewer
2022	L. WANG, PhD thesis, Thesis jury member
2018	R. BOUJEMAA, Ecole Nationale d'Ingénieurs de Tunis, PhD thesis, Thesis co-director
2017	N. KENAN, PhD thesis, Thesis co-director
2013	I. SAFRA, PhD thesis, Thesis co-director
2009	H. TLAHIG, PhD thesis, Thesis co-director