

Associate Professor of Industrial Engineering and Management
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DR., MSc., Eng. Habil.
MALEK MASMOUDI

39 years old, French citizen, married
Trilingual English, Arabic, French



HIGHLIGHTS

- Highest Qualification for University Professorship - **Habilitation (Industrial and Healthcare Engineering and Management)** in 2017 and Qualification in 2018, **PhD (Industrial Engineering and Management)** in 2011, **MSc (Design Engineering and Information Systems, industrial engineering)** in 2008 and **Engineer (Logistics in 2007 and Industrial Engineering in 2006)**
- Since 2013: **Head of two master programs in Industrial Engineering and management**, in the University Jean-Monnet:
Track1: **Industrial and Healthcare Engineering and Management** (Professional master)
Track2: **Advanced methods in Industrial Engineering** (Research Master)
- 2020: **Editor of two SPRINGER books: "AI and Data mining in healthcare" and "OR and simulation in healthcare"**
<https://www.springer.com/gp/book/9783030452223>,
<https://www.springer.com/gp/book/9783030452391>
- **Associate editor** of the International Journal of Industrial Engineering: Theory, Application and Practice (ISI journal)
- **Chair of Healthcare organization conferences:** JTOH2015, JTOH2016 and JTOH 2017
<http://www.enit.rnu.tn/jtoh/index.html>
- Since 2014: **Head and creator of a workshop/lab in Industrial engineering and management**
<https://www.youtube.com/watch?v=T5bY3UFv5CQ>
- 26 journal papers, 2 books, 8 book chapters, 45+ papers in international conferences
https://www.researchgate.net/profile/Malek_Masmoudi
<https://scholar.google.fr/citations?user=BVuj5o4AAAAJ&hl=fr>
- Since 2013: Supervisor of 13+ PhD Students and 20+ Master students
- Since 2011: Lecturing industrial engineering and management topics (2500 hours, 250h/year on average) at Post-graduate and under-graduate levels

PROFESSIONAL EXPERIENCES

Since 01/2022	Associate Professor of industrial engineering and management, University of Sharjah, College of Engineering, Industrial Engineering and Engineering Management Department, Sharjah, UAE
2018-2021	Associate Professor of industrial engineering and management, Head of the Master 2 Industrial Engineering, University Jean-Monnet (UJM), Saint-Etienne, France
2018 (1 week)	Research visitor, CHOIR (Center of Healthcare Operations Improvement & Research), University of Twente, Enschede, Netherlands
2018/2020/2021 (6 weeks)	Research visitor, Martin Luther University Halle-Wittenberg, Halle, Germany
2011-2018	Assistant Professor, Head of the Master 1 Industrial Engineering, UJM, France
2008-2011	PhD Researcher, dep. DMIA-ISAIE (Institut Supérieur de l'Aéronautique et de l'Espace) & dep. DCSD-ONERA (Office National d'Etudes et de Recherches Aérospatiales), Industrial Engineering, Toulouse, France
2011 (1 month)	Research visitor, ORSTAT (Research Center for Operations Research & Business Statistics), KULeuven, Leuven, Belgium
2010-2011 (2 months)	Researcher visitor, CHOIR (Center of Healthcare Operations Improvement & Research), University of Twente, Enschede, Netherlands

2008 (6 months)	Master 2 research internship, ESTAS-IFSTTAR (Institut Français des Sciences et Technologies des Transports, de l'Aménagement et des Réseaux) & LAGIS Laboratory (Laboratoire d'Automatique, Génie Informatique et Signal), Ecole Centrale de Lille, France
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RESEARCH EXPERIENCE

- 26 journal papers, 2 books, 8 book chapters, 45+ papers in international conferences
https://www.researchgate.net/profile/Malek_Masmoudi
- Research interests: Healthcare engineering and optimization, Maintenance management and optimization, Supply chain design and management, Process/flow Modeling and simulation, Transportation, Routing and scheduling, Production planning and scheduling,
- Research tools: Mathematical modeling, exact algorithms and meta-heuristics, hybridization techniques, stochastic optimization, stochastic process and simulation, MCDM
- Research partnership with researchers in the Netherlands, Germany, Belgium, Canada, France, Saudi Arabia, United Arab Emirates, Tunisia, Algeria, and Morocco.
- Research projects supervision: 13+ PhD students, 20+ Master students
- End-of-Year academic projects supervision: 50+ under-grad and post-grad projects
- Associate editor of the International Journal of Industrial Engineering (ISI journal), since 2021
- Guest editor of journal special issue: IJAMC, 2018, JTOM, 2021, SUSTAINABILITY, 2021
- Chair of special sessions: IESM2013, Roadef2013, CODIT2014-2019, MIM2016, MOPGP2017,
- CIE45, CIGI2019, MOSIM2020, IEEE SCC 2021, ...
- Member of scientific committee: Netherlandish-French network (Nuffic)
- Member of steering committee: JTOH (2015, 2016, 2017), AFROS2018, CODIT2019, ICALT2019, IEEE'SCC2021...

FUNDED RESEARCH

- Practice-oriented research project with Manitowoc funded by the ANRT (120K€) 2020-2023 (**Head of the project**) - ***structuring and learning scheduling tool for the overall organization of a production unit***
- Practice-oriented research project with CERCLH funded by the ANRT (120K€) 2018-2021 (**Head of the project**) - ***Optimization of logistical and medico-technical functions in Regional Hospital Groups***
- PSIH, ANR project, funded by the ministry of research (120K€), 2018-2021 - ***Integrated care pathway for the elderly at the hospital.***
- Research projects funded by the University Jean-Monnet (4.5K€ per project, **Head of a project**) - ***home healthcare routing and scheduling***
- Roanne e-healthcare, Regional Project, funded by FEDER (600K€), 2014-2016 (**Head of the project**) – ***telemedicine and home support for the elderly***
- Lean Workshop-learning factory, funded by the University Jean-Monnet (40K€)-2014 (**Head of the project**) – ***creation of a real lab for industrial engineering and management disciplinary***
- Heli-maintenance R&D1, National project, funded by three ministries (2,55 M€), 2008-2011 - ***optimization of industrial helicopter maintenance processes***

TEACHING EXPERIENCE

- Teaching: Since 2011, 250h/year of lecture courses and tutorials in industrial engineering and management. Example of modules: **supply chain design and management, workshop layout, production and project management, maintenance management, information systems: ERP-SAP, healthcare engineering and management, operations research-optimization, flow-process modeling and simulation, algorithmic and programming**
- Students' levels: Engineering school, Bachelor and Master (UAE, France, Tunisia and Morocco).

- Teaching innovation: Development of new educational approaches in Industrial engineering and management based on practice through a real lab. Teaching logistics, production, Lean methods, maintenance and quality control by practice (through projects, and practical exercises)

<https://www.youtube.com/watch?v=T5bY3UFv5CQ>



QUALIFICATIONS

November 2017	<p>Highest Qualification for University Professorship (Habilitation), University Jean-Monnet, France</p> <p>Title: Contribution to modeling and solving decisional problems in logistics and healthcare</p>
2008-2011 November	<p>PhD in Industrial Engineering, Institut Supérieur de l'Aéronautique et de l'Espace (ISAE-Campus Supaero), University of Toulouse, France</p> <p>Title: Tactical and operational project planning under uncertainties: application to helicopter maintenance</p>
2008	<p>Master 2 research (MSc), Information Systems - Industrial Engineering, Ecole Centrale de Lille, France</p> <p>Title: Verification of temporal requirements of complex systems using UML patterns, Application to a Level Crossing Control System</p> <p>Double Engineering Diplomas:</p>
2007 2006	<p>Logistics, Ecole Nationale Supérieure des Arts et Industries Textiles (ENSAIT), France</p> <p>Industrial Eng. and Management, National Engineering School of Tunis (ENIT), Tunisia</p> <p>Title: Forecasting returns in reverse logistics, application to catalog and mail-order retailing</p>

LIST OF PUBLICATIONS

Books:

- Artificial Intelligence and data mining in healthcare, **M. Masmoudi**, B. Jarboui, P. Siarry (Eds), **SPRINGER**, March 2020, ISBN 978-3-030-45240-7
- Operations research and simulation in healthcare, **M. Masmoudi**, B. Jarboui, P. Siarry (Eds), **SPRINGER**, March 2020, ISBN 978-3-030-45223-0



Journals:

- O. Saidi, M. Masmoudi, K. Kobbold, E. Alfonso, and P. Albert, Optimizing warehousing and transportation for a network of healthcare institutions: case of Territorial Hospital Group in France, Supply Chain Forum: An International Journal, January 2022.
- A. Bouras, **M. Masmoudi**, N. E. Saadani, Z. Bahroun, and M. A. Abdeljaouad, Multi-stage appointment scheduling for Outpatient Chemotherapy Unit: a case study" RAIRO journal, February 2021 (JCR, IF: 1.025)

3. M. Elarbi, **M. Masmoudi**, O. Ayadi, and F. Masmoudi, Optimization models and information sharing in a multi-echelon pharmaceutical supply chain, *International Journal of Shipping and Transport Logistics*, December 2020 (JCR, IF: 0.914)
4. M. Berquedich, A. Berquedich, O. Kamach, **M. Masmoudi**, A. Chebbak and L. Deshayes, "Developing a Mobile COVID-19 Prototype Management Application Integrated With an Electronic Health Record for Effective Management in Hospitals," in *IEEE Engineering Management Review*, 48 (4), 55-64, October 2020.
5. M. Elarbi, O. Ayadi, **M. Masmoudi**, and F. Masmoudi, Drug-inventory-management-model for a multi-echelon pharmaceutical supply-chain: case study of the Tunisian pharmaceutical supply chain, *Supply Chain Forum: An International Journal*, August 2020.
6. M. Poursoltan, **M. Masmoudi**, and P. Albert, Application of risk management for discrete event simulation projects in healthcare systems, *Engineering Management Journal*, July 2020 (JCR, IF : 0.822)
7. S. Frifita, I. Mathlouthi, **M. Masmoudi**, and A. Dammak, Variable Neighborhood Search based algorithms to solve a Rich k-Travelling Repairmen Problem, *Optimization Letters*, Springer, accepted in January 2020 (JCR, IF: 1.502)
8. Y Adouani, B Jarboui, and **M Masmoudi**, Efficient matheuristic for the generalized multiple knapsack problem with setup, *European Journal of Industrial Engineering*, 1-28, January 2020 (JCR: 1.136)
9. Y. Adouani, B. Jarboui, and **M. Masmoudi**, Matheuristic for the 0-1 Generalized Quadratic Multiple Knapsack Problem, *Optimization Letters*, Springer, October 2019 (JCR, IF: 1.502)
10. S. M. Muneeb, M. A. Nomani, **M. Masmoudi**, and A. Y. Adhami, A Bi-Level Decision-Making Approach for the Vendor Selection Problem with Random Supply and Demand, *Management Decision*, February 2019 (JCR, IF: 2.723)
11. M. Berquedich, O. Kamach, **M. Masmoudi**, and L. Deshayes, An immune memory and negative selection to manage tensions in emergency services, *International Journal of intelligent Engineering and Systems*, March 2019 (SJR, IF: 0.19)
12. M. Belkhamza, B. Jarbaoui, and **M Masmoudi**, Two metaheuristics for solving no-wait operating room surgery scheduling problem under various resource constraints, *Computers & Industrial Engineering*, 2018 (JCR, IF: 4.135)
13. M. Chalgham, I. Khatrouch, **M. Masmoudi**, O. Chakroun Walha, and A. Dammak, Inpatient admission management using multiple criteria decision-making methods, *Operations Research for Health Care*, Elsevier, 2018 (SJR, IF: 0.95)
14. S. Frifita, **M. Masmoudi**, VNS methods for Home Care routing and scheduling problem with Temporal Dependencies, and Multiple Structures and Specialties, *International Transactions in Operational Research*, 2018, ITOR-Feb-17-OA-0053.R2 (JCR, IF: 2.987)
15. **M. Masmoudi**, M. Chalgham and Z. Ben Houria, Fuzzy decision making for inpatient boarding: case of a Tunisian hospital, *International Journal of Industrial Engineering: Theory, Applications and Practice IJIETAP*, 2018 (JCR, IF: 0.537)
16. O. Ayedi, **M. Masmoudi**, M. Benameur, and F. Masmoudi, A new PSO-based algorithm for two-dimensional non-guillotine non-oriented cutting stock problem, *Applied Artificial Intelligence: An International Journal*, Taylor & Francis, June 2017 (JCR, IF: 1.172)
17. F. E. Hamdani, **M. Masmoudi**, A. Al Hanbali, F. Bouyahia, and A. A. Ouahman, Diagnostic and modelling of elderly flow in a French healthcare Institution, *Computers & Industrial Engineering*, ELSEVIER, 2017 (JCR, IF: 4.135)
18. S. Frifita, **M. Masmoudi**, and J. Euch, Generalized Variable Neighborhood Search for Home Healthcare routing and scheduling problem with time windows and synchronized Visits. *Electronic Notes in Discrete Mathematics journal*, 2017 (SJR, IF: 0.32)
19. R. Borchani, A. Elloumi, and **M. Masmoudi**, Variable Neighborhood Descent search-based algorithms for Course Timetabling Problem: Application to a Tunisian University, the *Electronic Notes in Discrete Mathematics journal*, 2017 (SJR, IF: 0.32)

20. M. A. Masmoudi, K. Braekers, **M. Masmoudi**, and A. Dammak, A Hybrid Genetic Algorithm for the heterogeneous dial-a-ride problem, *Computers & Operations Research journal*, ELSEVIER, 2016 (JCR, IF: 3.424)
21. A. Gueham, A. Nagih, H. Ait Haddadene, and **M. Masmoudi**, Graph coloring approach with new upper bounds for the chromatic number: application to team building. *RAIRO-Operations Research*, 2016 (JCR, IF: 1.025)
22. Z. Ben Houria, **M. Masmoudi**, A. Al Hanbali, I. Khatrouch, and F. Masmoudi, Quantitative techniques for medical equipment maintenance management, *European J. of Industrial Engineering*, Inderscience, 2016 (JCR, IF: 1.136)
23. **M. Masmoudi**, Z. Ben Houria, A. Al Hanbali, and F. Masmoudi, Decision Support Procedure for Medical Equipment Maintenance Management, *Journal of Clinical Engineering*, 2016 (SJR, IF: 0.18)
24. **M. Masmoudi**, E. W Hans, and A. Haït, Tactical project planning under uncertainty: Fuzzy approach, *European J. of Industrial Engineering*, Inderscience, 2016 (JCR, IF: 1.136)
25. **M. Masmoudi**, and A. Hait, Project scheduling under uncertainty using fuzzy modelling and solving techniques. *Engineering Applications of Artificial Intelligence*, Elsevier, 2013 (JCR, IF: 4.201)
26. **M. Masmoudi**, and A. Hait, Fuzzy uncertainty modelling for project planning; application to helicopter maintenance, *International Journal of Production research*, Taylor & Francis, Vol 50, issue 24, 2012 (JCR, IF: 4.577)

Book Chapters:

1. R. Borchani, **M. Masmoudi**, B. Jarboui, and P. Siarry, Heuristic based on the Hungarian method for the Patient Admission Scheduling Problem, *Operations Research and Simulation in healthcare*, M. Masmoudi, B. Jarboui, P. Siarry, (eds) Springer, March 2021
2. M. Berquedich, **M. Masmoudi**, O. Kamach, and L. Deshayes, An immune memory and negative selection to visualizing clinical pathways from electronic health record data, *Artificial intelligence and Data mining in healthcare*, M. Masmoudi, B. Jarboui, P. Siarry, (eds) Springer, March 2021
3. M. Poursoltan, **M. Masmoudi**, and M. Kaba Traore, The Effect of Risks on Discrete Event Simulation in Healthcare Systems, *Operations Research and Simulation in healthcare*, M. Masmoudi, B. Jarboui, P. Siarry, (eds) Springer, March 2021
4. M. Berquedich, O. Kamach, **M. Masmoudi**, and L. Deshayes (2019) Management of Tensions in Emergency Services. In: Ezziyyani M. (eds) *Advanced Intelligent Systems for Sustainable Development (AI2SD'2018)*. AI2SD 2018. *Advances in Intelligent Systems and Computing*, vol 914. Springer, Cham
5. Y. Adouani, B. Jarboui, and **M. Masmoudi** (2019) A Variable Neighborhood Search with Integer Programming for the Zero-One Multiple-Choice Knapsack Problem with Setup. In: Sifaleras A., Salhi S., Brimberg J. (eds) *Variable Neighborhood Search. ICVNS 2018*. *Lecture Notes in Computer Science*, vol 11328. Springer, Cham
6. M. El Arbi, A.A. Karoui, **M. Masmoudi**, and O. Ayadi (2018) Collaborative Inventory Management in Tunisian Healthcare Sector. In: Haddar M., Chaari F., Benamara A., Chouchane M., Karra C., Aifaoui N. (eds) *Design and Modeling of Mechanical Systems—III. CMSM 2017*. *Lecture Notes in Mechanical Engineering*. Springer, Cham
7. **M. Masmoudi**, E. W. Hans, R. Leus, and A. Hait, Fuzzy Multi-Project Rough-Cut Capacity Planning, Werner, F.; Sotkov, Y. (Eds.): *Sequencing and Scheduling with Inaccurate Data*, Publisher: Nova Science Publishers, September 2013

8. **M. Masmoudi**, A. Hait, Fuzzy Resource Constraint Project Scheduling Problem, Werner, F.; Sotskov, Y. (Eds.): Sequencing and Scheduling with Inaccurate Data, Publisher: Nova Science Publishers, September 2013

Conferences:

1. M. Guerroum, M. Zegrari, A. Ait elmahjoub, M. Berquedich, and **M. Masmoudi**, Machine learning for the predictive maintenance of a jaw crusher in the mining industry, IEEE International Conference on Technology Management, Operations and Decisions (IEEE ICTMOD), Morocco, November 24-26
2. O. Saidi, **M. Masmoudi**, K. Cobbold, E. Alfonso-Lizarazo, and P. Albert, Optimizing transportation for a centralized sterilization service in a multi-hospital network, IEEE ICTMOD 2021, Morocco, November 24-26
3. O. Saidi, **M. Masmoudi**, K. Cobbold, E. Alfonso Lizarazo, and P. Albert, Rich Location Routing Problem with application to Multi-hospital network, 31st European Conference on Operational Research, July 11-14, 2021, Athens, Greece
4. J. Le Lay, V. Augusto, X. Xie, E. Alfonso-Lizarazo, **M. Masmoudi**, B. Bongue, T. Celarier, and R. Gonthier, Impact of Covid-19 epidemics on bed requirements in a healthcare center using data-driven discrete event simulation, 2020 Winter Simulation Conference (WSC) informs, USA, December 14-18
5. R. El Kammouni, O. Kamach, and **M. Masmoudi**, conception and modelization of a Value stream mapping 4.0, 13th International Conference on Modeling, Optimization and Simulation - MOSIM'20, November 12-14, 2020, Agadir, Morocco.
6. S. Mallah, A. Aloullal, O. Kamach, **M. Masmoudi**, N. Najid, K. Kouiss, and L. Deshayes, Supply chain routing scheduling sub-model design: case of export bulk ports, 13th International Conference on Modeling, Optimization and Simulation - MOSIM'20, November 12-14, 2020, Agadir, Morocco.
7. A. Pierné, K. Medini, and **M. Masmoudi**, Economic Assessment of Ramp-Up Strategies in Multi-Variant Production, 13th International Conference on Modeling, Optimization and Simulation - MOSIM'20, November 12-14, 2020, Agadir, Morocco.
8. R. Borchani, **M. Masmoudi**, and B. Jarboui, Hybrid Genetic Algorithm for Home Healthcare routing and scheduling problem, IEEE International Conference on Control, Decision and Information Technologies (CoDIT'19), April 2019, Paris, France
9. Y. Adouani, B. Jarboui, and **M. Masmoudi**, A Variable neighborhood search with integer programming for the zero-one Multiple-Choice Knapsack Problem with Setup, in the conference 6th International Conference on Variable Neighborhood Search (ICVNS 2018), October 4-7, 2018, Sithonia, Halkidiki, Greece
10. M. Berquedich, O. Kamach, **M. Masmoudi**, and L. Deshayes, Management of tensions in emergency services, The International Conference of Advanced Intelligent Systems for Sustainable Development, 13-14 July 2018, Tanger, Morocco.
11. Bouras, **M. Masmoudi**, H. Saadani and Z. Bahroun, Chemotherapy outpatient scheduling case study from Tunisia, the 2018 International Conference of the African Federation of Operational Research Societies 2018, 2-4 July, Tunis, Tunisia
12. Z. Ben Houria, **M. Masmoudi** and A. Al Hanbali, Medical equipment maintenance optimization: Mixed-Integer Linear Programming, the 2018 International Conference of the African Federation of Operational Research Societies, 2-4 July 2018, Tunis, Tunisia
13. **M. Masmoudi**, B. Jarboui and S. Frifita, Several meta-heuristics for home care routing problems, The International Conference of the African Federation of Operational Research Societies, 2-4 July 2018, Tunis, Tunisia

14. M. Berquedich, O. Kamach, **M. Masmoudi** and L. Deshayes, Management Approach of tensions in emergency services, The 2018 International Conference of the African Federation of Operational Research Societies 2018, 2-4 July, Tunis, Tunisia
15. M. Belkhamza, **M. Masmoudi**, I. Alghoul and B. Jarbouï, Meta-heuristics for surgical scheduling problem with hospitalization, the 2018 International Conference of the African Federation of Operational Research Societies, 2-4 July 2018, Tunis, Tunisia
16. M. Elarbi, **M. Masmoudi**, O. Ayadi and F. Masmoudi, VMI and demand pooling effect in pharmaceutical supply chain, the 2018 International Conference of the African Federation of Operational Research Societies, 2-4 July 2018, Tunis, Tunisia
17. S. Triki, **M. Masmoudi** and H. Kamoun, a multi-objective approach for cell formation problem, the International Conference of the African Federation of Operational Research Societies, 2-4 July 2018, Tunis, Tunisia
18. Y. Adouani, **M. Masmoudi**, I. Alghoul and B. Jardoui, A hybrid approach for zero-one Multiple-Choice Knapsack Problem with Setup, the International Conference of the African Federation of Operational Research Societies, 2-4 July 2018, Tunis, Tunisia
19. S. Frifita, I. Mathlouthi, **M. Masmoudi** and A. Dammak, GNVS algorithm to solve the Technician Routing and Scheduling Problem, the 2018 International Conference of the African Federation of Operational Research Societies, 2-4 July 2018, Tunis, Tunisia
20. S. Triki, S. Hadj Taeib, **M. Masmoudi**, S. Afifi and A. Dammak, Epsilon constraint method for Home care routing and scheduling problem, MOPGP, 30-31 October 2017, Metz, France
21. S. Triki, H. Kamoun and **M. Masmoudi**, Epsilon constraint method for cell formation problem, MOPGP, 30-31 October 2017, Metz, France
22. M. Berquedich, O. Kamach, **M. Masmoudi**, and L. Deshayes, Reactive approach of flow patients management: The conception of a decisional interactive system, Logistica'2017, Morocco, April 2017
23. M. El Arbi, A. M. Karoui, **M. Masmoudi** and O. Ayadi, Collaborative inventory management in Tunisian health care sector. The Seventh International Congress Design and Modelling of Mechanical Systems, Hammamet, Tunisia, March 2017
24. A. Bouras, **M. Masmoudi**, and N. El-H. Saadani, A three-stage Appointment Scheduling for an Outpatient Chemotherapy Unit using integer programming, 4th International Conference on Control, Decision and Information Technologies (CoDIT'17), Barcelona, Spain, April 2017
25. W. Neji, **M. Masmoudi**, and R. Mallouli, A Robust-MILP for Synchronized-mTSPTW: Application to Home Health Care under uncertainties, 4th International Conference on Control, Decision and Information Technologies (CoDIT'17), April 5-7, 2017, Barcelona, Spain, April 2017
26. F. Hamdani, F. Bouyahia, and **M. Masmoudi**, Platform support organ transplant process in a Moroccan context, 4th International Conference on Control, Decision and Information Technologies (CoDIT'17), April 2017, Barcelona, Spain
27. S. Frifita, **M. Masmoudi**, and J. Euchì, Variable Neighborhood Search for Home Healthcare routing and scheduling problem with time windows and synchronized Visits. VNS2016, Malaga, October 2016
28. R. Borchani, A. Elloumi, and **M. Masmoudi**, Variable Neighborhood Descent search-based algorithms for Course Timetabling Problem: Application to a Tunisian University, VNS2016, Malaga, October 2016
29. M. Berquedich, O. Kamach, L. **M. Masmoudi** and L. Deshayes, Méthodologie organisationnelle des processus en environnement incertain et perturbé : application au domaine hospitalier, CPI'2015, Tanger, Maroc, December 2015
30. I. Khatrouch, **M. Masmoudi**, Multi-criteria decision-making approach for home care team selection, CIE45, October 2015

31. F. Hamdani, L. Jdayni, **M. Masmoudi** and J. Roche, Quantitative modeling of elderly people flow within French healthcare system behavior, CIE45, October 2015
32. Z. B. Houria, M. Besbes, B. Elaoud, **M. Masmoudi** and F. Masmoudi, Maintenance strategy selection for medical equipments using fuzzy multiple criteria decision-making approach, CIE45, October 2015
33. **M. Masmoudi**, M. Zidi, and H. Marweni, Internalisation/externalisation et choix de contrat en maintenance biomédicale, MOSIM2014, Nancy, Novembre 2014
34. **M. Masmoudi** Z. B. Houria, and F. Masmoudi, Multicriteria decision making for Medical equipment maintenance: Insourcing, outsourcing and service contract, IEEE CoDIT2014, Metz, November 2014
35. **M. Masmoudi**, R. Mellouli, MILP for Synchronized-mTSPTW: application to Home HealthCare Scheduling, IEEE CoDIT2014, Metz, November 2014
36. H. Saadouli, **M. Masmoudi**, B. Jerbi, and A. Dammak, An optimization and Simulation approach for Operating Room scheduling under stochastic durations, IEEE CoDIT2014, Metz, November 2014
37. S. Kharraja, **M. Masmoudi**, Robust master surgical scheduling, Orahs'2012, Enschede, Pays Bas, July 2012
38. **M. Masmoudi**, E. W. Hans, R. Leus, and A. Hait, Stochastic and fuzzy workload plans in project tactical planning under uncertainty, INCOM'2012, Bucarest, Roumania, Mai 2012
39. **M. Masmoudi**, Erwin Hans, Roel Leus, and Alain Hait, Rough-cut capacity planning under uncertainty, PMS'2012, Louvain, Belgium, April 2012
40. L. Chen, **M. Masmoudi**, W. Tao, and T. Monteiro. Système d'Information d'Aide à la Décision pour le dépistage et la coordination des soins de support en cancérologie, GI-SEH'2012, Québec, Canada, September 2012
41. **M. Masmoudi**, E. W. Hans, and A. Hait, Fuzzy tactical project planning: Application to helicopter maintenance, IEEE, ETFA'11, Toulouse, France, September 2011
42. **M. Masmoudi**, A. Hait, A GA-based fuzzy resource leveling optimization for helicopter maintenance activity, EUSFLAT-LFA'11, France, July 2011
43. **M. Masmoudi**, A. Hait, Fuzzy capacity planning for a helicopter maintenance center, IESM'11, France, Mai 2011
44. **M. Masmoudi**, Forecasting returns in reverse logistics: application to catalog and mail-order retailing, IESM'11, France, Mai 2011
45. **M. Masmoudi**, A. Hait, A Tactical model under uncertainty for helicopter maintenance planning, MOSIM'10, Tunisia, Mai 2010
46. M. Ghazel, **M. Masmoudi**, and A. Toguyeni, Monitoring of Temporal Requirements with Stocharts Observation Patterns, Application to a Level Crossing Control, System, DCDS09, IFAC, June 2009, Bari, Italy
47. M. Ghazel, **M. Masmoudi**, and A. Toguyeni, Verification of temporal requirements of complex systems using UML patterns, application to a railway control example, SOSE09, IEEE, April 2009, San Antonio, USA

REFERENCES

Pr. Erwin Hans, University of Twente, Netherlands (e.w.hans@utwente.nl, Tel: 0031 681475791)

Pr. Roel Leus, KULeuven, Belgium (Roel.Leus@kuleuven.be, Tel: 0032 16326967)

Pr. Patrick Siarry, Université Paris-Est Créteil Val-de-Marne, France (siarry@u-pec.fr)