

# Morteza DAVARI

Assistant Professor @ SKEMA Business School

## Last Update

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## Website

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## Languages

Persian (native)  
English (fluent)  
Dutch (B1)  
Arabic (A2)

## Interests

Operations Research  
Combinatorial Optimization  
Stochastic Optimization  
Robust Optimization  
Artificial Intelligence  
Complexity Theory  
Algorithm design  
project planning  
Sport planning  
Data Mining  
Forecasting  
Scheduling

## Experience

2020 - Aug	<b>SKEMA Business School</b> Assistant Professor of Operations Research	Lille, France
2020 - Sep	<b>KU Leuven</b> Visiting Professor of Operations Research	Leuven, Belgium
2019 - 2020 SEP AUG	<b>KU Leuven, Campus Brussels</b> Professor Assistant at Department of Information Management, Modeling and Simulation	Brussels, Belgium
2017 - 2019 DEC AUG	<b>KU Leuven, Campus Brussels</b> Postdoctoral researcher at Research Centre for Operations Management	Brussels, Belgium
2017 - 2017 JAN NOV	<b>KU Leuven, KULAK</b> Postdoctoral researcher at Department of Computer Science	Kortrijk, Belgium

## Education

2012 - 2016 OCT DEC	<b>Ph.D. in Operations Research</b>	@ KU Leuven
2011 - 2012 SEP AUG	<b>M.Sc. in Advanced Business Studies</b>	@ KU Leuven
2006 - 2011 SEP MAY	<b>B.Sc. in Industrial Engineering</b>	@ Ferdowsi University of Mashhad

## Teaching

2022 -	<b>Big Data in Supply Chain</b> M.Sc. course	SKEMA Business School
2021 -	<b>AI for Finance and Accounting</b> M.Sc. course	SKEMA Business School
2021 -	<b>Business Economics Calculus</b> B.Sc. course	SKEMA Business School
2020 -	<b>Applied Optimization [B-KUL-D0S99A]</b> M.Sc. course	KU Leuven
2020 - 2022	<b>Big Data and Business Intelligence</b> M.Sc. course	SKEMA Business School
2020 - 2021	<b>Quantitative Research Methods</b>	SKEMA Business School
2018 - 2020	<b>Combinatorial Optimization and Local Search Techniques [B-KUL-D0M60B]</b> Doctoral course	KU Leuven
2018 - 2020	<b>Operational Management [B-KUL-HBA19C]</b> B.Sc. course	KU Leuven
2016 - 2017	<b>Computer Tools (Informaticawerktuigen [X0A22a])</b> B.Sc. course	KU Leuven

# Research

## Articles published in reviewed international journals

- 2022 Li, M., Davari, M. and Goossens, D. **Multi-league sports scheduling with different leagues sizes.**  
*European Journal of Operational Research, to appear*
- 2022 Brusset, X., Davari, M. Aseem K., La Torre, D. **Modelling ripple effect propagation and global supply chain workforce productivity impacts in pandemic disruptions**  
*International Journal of Production Research, to appear*
- 2022 Yang, F., Davari, M. Wei, W., Hermans, B., and Leus, R. **Scheduling a single parallel-batching machine with non-identical job sizes and incompatible job families.**  
*European Journal of Operational Research, 303(2):602-615*
- 2021 Peymankar, M., Davari, M. and Ranjbar, M. **Maximizing the expected net present value in a project with uncertain cash flows.**  
*European Journal of Operational Research, 294(2):442-452*
- 2021 Briskorn, D., Davari, M. and Matuscke, J. **Single machine scheduling with an external resource.**  
*European Journal of Operational Research, 293(2):457-468*
- 2020 Davari, M., Ranjbar, M., De Causmaecker, P. and Leus, R. **Minimizing makespan on a single-machine with release dates and inventory constraints.**  
*European Journal of Operational Research, 286(1):115-128*
- 2020 Davari, M., Goossens, D., Beliën, J., Lambers, R. and Speiksmas, F. **The multi-league sports scheduling problem, or how to schedule tens of thousands of matches.**  
*Operations Research Letters, 48(2):180-187*
- 2019 Davari, M. and Demeulemeester, E. **A novel branch-and-bound algorithm for the chance-constrained resource-constrained project scheduling problem.** *International Journal of Production Research, 57(4):1265-1282*
- 2019 Davari, M. and Demeulemeester, E. **Important classes of reactions for the proactive and reactive resource-constrained project scheduling problem.**  
*Annals of Operations Research, 274(1-2):187-210*
- 2019 Davari, M. and Demeulemeester, E. **The proactive and reactive resource-constrained project scheduling problem.**  
*Journal of Scheduling, 22(2):211-237*
- 2016 Davari, M., Demeulemeester, E., Leus, R. and Talla Nobibon, F. **Exact algorithms for a single-machine scheduling problem with time windows and precedence constraints.** *Journal of Scheduling, 19(3):309-334*
- 2014 Abasian, F., Ranjbar, M., Salari, M., Davari, M. and Khatami, M. **Minimizing the total weighted late work in scheduling of identical parallel processors with communication delays.**  
*Applied Mathematical Modelling, 38:3975-3986*
- 2013 Ranjbar, M. and Davari, M. **An exact method for scheduling of the alternative technologies in R&D projects.**  
*Computers and Operations Research, 40:395-405*
- 2012 Ranjbar, M., Davari, M. and Leus, R. **Two branch-and-bound algorithms for the robust parallel machine scheduling problem.**  
*Computers and Operations Research, 39:1652-1660*

## Invited talks

Jan 2020	<b>University of Wuppertal</b> Scheduling with external resources	Wuppertal, Germany
Nov 2018	<b>University of Liège</b> Minimizing makespan on a single-machine with release dates and inventory constraints	Liège, Belgium
Nov 2017	<b>The Zuse Institute (ZIB)</b> The proactive and reactive resource-constrained project scheduling problem.	Berlin, Germany
Nov 2017	<b>Karlsruhe Institute of Technology (KIT)</b> The proactive and reactive resource-constrained project scheduling problem.	Karlsruhe, Germany
Jul 2017	<b>University of Wuppertal</b> A novel branch-and-bound algorithm to solve chance-constrained problems with finite and discrete support.	Wuppertal, Germany
Jan 2016	<b>Ferdowsi University of Mashhad</b> A novel branch-and-bound algorithm to solve chance-constrained resource-constrained project scheduling problem.	Mashhad, Iran

## Conferences and meetings

**A list of all conferences that I have attended can be found here:**

<https://www.md6712.com/conferences-and-meetings/>

## Service

### Referee for Journals

Informs Journal on Computing  
European Journal of Operational Research  
Computers of Operations Research  
Annals of Operations Research  
International Journal of Production Research  
IIE Transactions  
Journal of Scheduling  
Flexible Services and Manufacturing Journal  
International Transaction in Operational Research  
Applied Mathematical Modeling  
Decision Sciences  
Information Sciences  
Omega  
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