

Morteza DAVARI

Associate Professor @ SKEMA Business School

Last Update

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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

2024 - Jan	Associate Professor of Operations Research SKEMA Business School	Lille, France
2020 - 2023 Aug Dec	Assistant Professor of Operations Research SKEMA Business School	Lille, France
2020 - Sep	Visiting Professor of Operations Research KU Leuven	Leuven, Belgium
2019 - 2020 SEP AUG	Lecturer - Professor Assistant KU Leuven, Campus Brussels	Brussels, Belgium
2017 - 2019 DEC AUG	Postdoctoral researcher Faculty of Business and Economics - KU Leuven, Campus Brussels	Brussels, Belgium
2017 - 2017 JAN NOV	Postdoctoral researcher Department of Computer Science - KU Leuven, KULAK	Kortrijk, Belgium

Education

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

Teaching

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

Research

Articles published in reviewed international journals

- 2023 Li, M., Davari, M. and Goossens, D. **Multi-league sports scheduling with different leagues sizes.**
European Journal of Operational Research, 307(1):313-327
- 2023 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, 61(8):2493-2512
- 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	SKEMA Business School Scheduling with inventory constraints	Lille, France
Jan 2020	University of Wuppertal Scheduling with external resources	Wuppertal, Germany
Nov 2018	University of Liège Minimizing makespan on a single-machine with release dates and inventory constraints	Liège, Belgium
Nov 2017	The Zuse Institute (ZIB) The proactive and reactive resource-constrained project scheduling problem.	Berlin, Germany
Nov 2017	Karlsruhe Institute of Technology (KIT) The proactive and reactive resource-constrained project scheduling problem.	Karlsruhe, Germany
Jul 2017	University of Wuppertal A novel branch-and-bound algorithm to solve chance-constrained problems with finite and discrete support.	Wuppertal, Germany
Jan 2016	Ferdowsi University of Mashhad 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/>

Supervision

Current PhD Supervisions

2022-	Leonie Gallois PhD student (Double degree SKEMA-KU Leuven program in "AI in Operations Management")	Promoter - Also promoted by Jannik Matuschke
2017-	Masoomeh Ghorbanzade PhD student (Ferdowsi University of Mashhad)	External Advisor - promoted by Mohammad Ranjbar

Past PhD Supervisions

2015-2020	Mahboobeh Peymankar PhD student (Ferdowsi University of Mashhad)	External Advisor - promoted by Mohammad Ranjbar
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PhD Committee Duties

2019-	Miao Li UGent	Committee member - promoted by Dries Goossens
2015-2021	Fan Yang KU Leuven	Committee member - promoted by Roel Leus

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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