Morteza DAVARI

Professeur associé

Académie : Digitalisation

Centre de recherche : SKEMA Centre for Analytics and Operations

Campus : Lille

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Intérêts de recherche

Operations Research, Combinatorial Optimization, Stochastic Programming, Sport Planning, Scheduling, Project Planning, Data Driven Optimization, Data Mining

Formation

2017	Ph.D. in Business Economics, KU Leuven, Belgique
2012	MSc in Advanced Business Studies, KU Leuven, Belgique
2011	BSc in Industrial Engineering, Ferdowsi University of Mashhad, Iran

Expérience Professionnelle

Positions académiques principales

Depuis 2024	Professeur associé, SKEMA Business School, France
Depuis 2020	Professeur visitant, KU Leuven, Belgique
Depuis 2020	Assistant Professor in Operations Research, SKEMA Business School, France

Autres affiliations académiques

2017 - 2020	Postdoctoral Researcher at KU Leuven, KU Leuven, Belgique

Publications

Articles académiques revus

GHORBANZADEH, M., DAVARI, M. et RANJBAR, M. (2024). Energy-aware flow shop scheduling with uncertain renewable energy. *Computers & Operations Research*, 170(106741).

BRUSSET, X., DAVARI, M., KINRA, A. et LA TORRE, D. (2023). Modelling ripple effect propagation and global supply chain workforce productivity impacts in pandemic disruptions. *International Journal of Production Research*, 61(8), pp. 2493-2512.

LI, M., DAVARI, M. et GOOSSENS, D. (2023). Multi-league sports scheduling with different leagues sizes. *European Journal of Operational Research*, 307(1), pp. 313-327.

YANG, F., DAVARI, M., WEI, W., HERMANS, B. et LEUS, R. (2022). Scheduling a single batch machine family with non-identical job sizes and incompatible job families. *European Journal of Operational Research*, 303(2), pp. 602-615.

PEYMANKAR, M., DAVARI, M. et RANJBAR, M. (2021). Maximizing the expected net present value in a project with uncertain cash flows. *European Journal of Operational Research*, 294(2), pp. 442-452.

BRISKORN, D., DAVARI, M. et MATUSCHKE, J. (2021). Single-machine scheduling with an external resource. *European Journal of Operational Research*, 293(2), pp. 457-468.

DAVARI, M., RANJBAR, M., DE CAUSMAECKER, P. et LEUS, R. (2020). Minimizing makespan on a single machine with release dates and inventory constraints. *European Journal of Operational Research*, 286(1), pp. 115-128.

DAVARI, M., GOOSSENS, D., BELIEN, J., LAMBERS, R. et SPIEKSMA, F.C.R. (2020). The multi-league sports scheduling problem, or how to schedule thousands of matches. *Operations Research Letters*, 48(2), pp. 180-187.

DAVARI, M. et DEMEULEMEESTER, E. (2019). A novel branch-and-bound algorithm for the chance-constrained resource-constrained project scheduling problem. *International Journal of Production Research*, 57(4), pp. 1265-1282.

DAVARI, M. et DEMEULEMEESTER, E. (2019). Important classes of reactions for the proactive and reactive resource-constrained project scheduling problem. *Annals of Operations Research*, 274, pp. 187-210.

DAVARI, M. et DEMEULEMEESTER, E. (2019). The proactive and reactive resource-constrained project scheduling problem. *Journal of Scheduling*, 22, pp. 211-237.

DAVARI, M., DEMEULEMEESTER, E., LEUS, R. et TALLA NOBIBON, F. (2016). Exact algorithms for a single-machine scheduling problem with time windows and precedence constraints. *Journal of Scheduling*, 19, pp. 309-334.

ABASIAN, F., RANJBAR, M., SALARI, M., DAVARI, M. et KHATAMI, M. (2014). Minimizing the total weighted late work in scheduling of identical parallel processors with communication delays. *Applied Mathematical Modelling*, 38(15-16), pp. 3975-3986.

RANJBAR, M. et DAVARI, M. (2013). An exact method for scheduling of the alternative technologies in R&D projects. *Computers & Operations Research*, 40(1), pp. 395-405.

RANJBAR, M., DAVARI, M. et LEUS, R. (2012). Two branch-and-bound algorithms for the robust parallel machine scheduling problem. *Computers & Operations Research*, 39(7), pp. 1652-1660.

Chapitres d'ouvrage

BRUSSET, X., DAVARI, M., KINRA, A. et LA TORRE, D. (2021). Modelling COVID-19 Ripple Effect and Global Supply Chain Productivity Impacts Using a Reaction-Diffusion Time-Space SIS Model. Dans: Alexandre Dolgui, Alain Bernard, David Lemoine, Gregor von Cieminski, David Romero eds. *Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems*. 1st ed. Nantes: Springer, pp. 3-12.

Actes d'une conférence

BRUSSET, X., DAVARI, M., KINRA, A. et LA TORRE, D. (2021). Modelling COVID-19 Ripple Effect and Global Supply Chain Productivity Impacts Using a Reaction-Diffusion Time-Space SIS Model. pp. 3-12.

DAVARI, M., DEMEULEMEESTER, E., LEUS, R. et TALLA NOBIBON, F. (2013). Exact algorithms for single-machine scheduling with time windows and precedence constraints.

Présentations dans des conférences

DAVARI, M. (2020). A dynamic programming-based guess-and-check algorithm to minimize makespan on a single machine with release date and inventory constraint. Dans: 34th conference of the Belgian Operational Research Society (ORBEL34). Lille.

YANG, F., DAVARI, M. et WEI, W. (2020). Scheduling a single batch processing machine with non-identical job sizes and incompatible job families. Dans: 34st annual conference of the Belgian Operational Research Society (ORBEL34). Lille.

DAVARI, M., BELIEN, J. et GOOSSENS, D. (2019). Polynomial algorithms for the multi-league sport scheduling problem. Dans: 33st annual conference of the Belgian Operational Research Society (ORBEL33). Hasselt.

DAVARI, M., PEYMANKAR, M. et RANJBAR, M. (2019). Net present value maximization in project scheduling with an external resource. Dans: 14th Workshop on Models and Algorithms for Planning and Scheduling Problems (MAPSP 2019). Renesse.

YANG, F., DAVARI, M. et WEI, W. (2019). Scheduling a single batch processing machine with non-identical job sizes and incompatible job families. Dans: Multidisciplinary International Scheduling Conference: Theory and Applications (MISTA). Ningbo.

DAVARI, M., RANJBAR, M. et LEUS, R. (2018). Minimizing makespan on a single machine with release date and inventory constraints. Dans: 32st annual conference of the Belgian Operational Research Society (ORBEL32). Liege.

DAVARI, M., BELIEN, J. et DE CAUSMAECKER, P. (2018). A generic solution method for scheduling with inventory constraints. Dans: EURO-European Conference on Operational research , Valencia (Spain). Valencia.

DAVARI, M. et DEMEULEMEESTER, E. (2017). The proactive and reactive resource-constrained project scheduling problem: the crucial role of buffer-based reactions. Dans: 31st annual conference of the Belgian Operational Research Society (ORBEL31). Brussels.

DAVARI, M. et DE CAUSMAECKER, P. (2017). A schedule selection method for the proactive and reactive scheduling problem. Dans: 21st Conference of the International Federation of Operational Research Societies (IFORS 2017). Quebec City.

DAVARI, M. et DEMEULEMEESTER, E. (2016). The proactive and reactive resource-constrained project scheduling problem. Dans: 28th EURO-European Conference on Operational research. Poznan.

DAVARI, M. et DEMEULEMEESTER, E. (2015). Proactive-reactive resource-constrained project scheduling: A recovery-robust approach. Dans: OR2015: Business Analytics and Optimisation Conference. Vienna.

DAVARI, M., LAMAS, P. et DEMEULEMEESTER, E. (2014). A new branch-and-bound algorithm for CC-RCPSP. Dans: OR2014: Business Analytics and Optimisation Conference. Aachen.

DAVARI, M. et DEMEULEMEESTER, E. (2014). Robust RCPSP: a special focus on reactions. Dans: INFORMS Annual Meeting. San Francisco.

DAVARI, M., TALLA NOBIBON, F. et LEUS, R. (2013). A single machine scheduling problem with time windows and precedence constraints. Dans: 26th EURO-INFORMS European Conference on Operational Research. Rome.

DAVARI, M., DEMEULEMEESTER, E. et LEUS, R. (2013). Exact algorithms for single-machine scheduling with time windows and precedence constraints. Dans: Multidisciplinary International Scheduling Conference: Theory and Applications (MISTA). Gent.

DAVARI, M. et RANJBAR, M. (2012). One-by-one or altogether: the advantages of pursuing alternative innovation activities. Dans: PMS2012 - International Conference on Project Management and Scheduling. Leuven.

Autres activités de recherche

Editeur associé d'une revue

Depuis 2026 Information Systems and Operational Research

Relecteur pour :

4OR: A Quarterly Journal of Operations Research, Flexible Services and Manufacturing Journal, INFORMS Journal on Computing, Omega, Annals of Operations Research, Journal of Scheduling, Decision Sciences, 4OR: A Quarterly Journal of Operations Research, Computers & Operations Research, European Journal of Operational Research,

International Transactions in Operational Research, IIE Transactions

Organisation d'une conférence ou d'un séminaire

2021 The Sports Timetabling competition

Supervision de thèses / HDR

Y. CHEN, Doctorat, Membre de jury

2025 S. HASEMI, Doctorat, Co-directeur de thèse

2022 M. GHORBANZADEH, Doctorat, Co-directeur de thèse

2021 F. YANG, sous la supervision de R. LEUS, Doctorat, Membre de jury

2021 M. PEYMANKAR, Ferdowsi University of Mashhad, Doctorat, Co-directeur de thèse