

Asst. Prof. BANU LOKMAN

Personal Information

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Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, Turkey 2007 - 2011

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, Turkey 2005 - 2007

Undergraduate Minor, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, Turkey 2002 - 2005

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, Turkey 2000 - 2005

Foreign Languages

English, C1 Advanced

Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, 2018 - Continues

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, 2014 - 2018

Assistant Professor, Ted University, Faculty Of Engineering-Architecture, Department Of Industrial Engineering, 2012 - 2014

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, 2006 - 2011

Advising Theses

LOKMAN B., A Study of the day-ahead energy market auctions from a multi-objective perspective, Doctorate, G.Ceyhan(Student), 2020

LOKMAN B., A Multi-objective approach to cluster ensemble selection problem, Postgraduate, D.Aktaş(Student), 2019

LOKMAN B., Representing the nondominated set with a small subset in multi-objective mixed integer programs, Postgraduate, I.DOĞAN(Student), 2018

LOKMAN B., Issues in selecting a representative set for multi-objective integer programs, Postgraduate, S.SERKAN(Student), 2017

LOKMAN B., Generating representative nondominated point subsets in multi-objective integer programs, Postgraduate, G.CEYHAN(Student), 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Finding the Nondominated Set and Efficient Integer Vectors for a Class of Three-Objective Mixed-Integer Linear Programs**
Ceyhan G., Koksalan M., Lokman B.
MANAGEMENT SCIENCE, vol.69, pp.6001-6020, 2023 (SCI-Expanded)
- II. **Extensions for Benders cuts and new valid inequalities for solving the European day-ahead electricity market clearing problem efficiently**
Ceyhan G., Köksalan M., Lokman B.
European Journal of Operational Research, vol.300, no.2, pp.713-726, 2022 (SCI-Expanded)
- III. **Representing the nondominated set in multi-objective mixed-integer programs**
Doğan I., Lokman B., Köksalan M.
European Journal of Operational Research, vol.296, pp.804-818, 2022 (SCI-Expanded)
- IV. **Distribution based representative sets for multi-objective integer programs**
Ozarik S. S., Lokman B., Koksalan M.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.284, no.2, pp.632-643, 2020 (SCI-Expanded)
- V. **Finding a representative nondominated set for multi-objective mixed integer programs**
Ceyhan G., Koksalan M., LOKMAN B.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.272, no.1, pp.61-77, 2019 (SCI-Expanded)
- VI. **Identifying preferred solutions in multiobjective combinatorial optimization problems**
Lokman B., Koksalan M.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.3, pp.1970-1981, 2019 (SCI-Expanded)
- VII. **An interactive approximation algorithm for multi-objective integer programs**
LOKMAN B., Koksalan M., Korhonen P. J., Wallenius J.
COMPUTERS & OPERATIONS RESEARCH, vol.96, pp.80-90, 2018 (SCI-Expanded)
- VIII. **Approximating the Nondominated Frontiers of Multi-Objective Combinatorial Optimization Problems**
Koeksalan M., LOKMAN B.
NAVAL RESEARCH LOGISTICS, vol.56, no.2, pp.191-198, 2009 (SCI-Expanded)

Metrics

Publication: 8

Citation (WoS): 32

Citation (Scopus): 24

H-Index (WoS): 3

H-Index (Scopus): 3