#### 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

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