

## Asst. Prof. SAKİNE BATUN

### Personal Information

**Office Phone:** [+90 312 210 2286](tel:+903122102286)

**Email:** [sakine@metu.edu.tr](mailto:sakine@metu.edu.tr)

**Web:** <https://avesis.metu.edu.tr/sakine>

### International Researcher IDs

ScholarID: [SVomyA8AAAAJ](#)

ORCID: [0000-0002-7503-8172](#)

Publons / Web Of Science ResearcherID: [AAZ-8764-2020](#)

ScopusID: [26031222300](#)

Yoksis Researcher ID: [189951](#)

### Education Information

Doctorate, University of Pittsburgh, Graduate Faculty of the Swanson School of Engineering, Department of Industrial Engineering, United States Of America 2006 - 2011

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, Turkey 2004 - 2006

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, Turkey 2000 - 2004

### Dissertations

Doctorate, Scheduling Multiple Operating Rooms under Uncertainty, University of Pittsburgh, 2011

Postgraduate, Machine scheduling with preventive maintenances, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, 2006

### Research Areas

Industrial Engineering

### 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, 2012 - 2018

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, 2004 - 2006

### Advising Theses

Azizoğlu M., BATUN S., A stochastic programming approach to the single machine makespan problem with random breakdowns, Postgraduate, T.GÜREL(Student), 2022

BATUN S., Managing word-of-mouth with capacity allocation and advertisement, Postgraduate, A.DİPKAYA(Student), 2021

Batun S., Azizoğlu M., A stochastic disassembly line balancing problem with hazardous tasks, Doctorate, E.Göksoy(Student), 2020

Batun S., Management of interdependent infrastructure networks under disaster-related uncertainties, Postgraduate, T.CANBİLEN(Student), 2020

Batun S., Multi-period appointment planning and scheduling in healthcare, Postgraduate, U.TARIK(Student), 2019

Batun S., Order picking oriented storage assignment problem in a vertical lift module system, Postgraduate, B.ÖZ(Student), 2019

Çelik M., Batun S., Value of Modeling Uncertainty in Multi-Objective Programming, Postgraduate, E.YİĞİT(Student), 2019

BATUN S., Closed-loop supply chain network design under demand, return and quality uncertainty, Postgraduate, K.BİÇE(Student), 2017

BATUN S., Nurse scheduling and rescheduling problem under uncertainty, Postgraduate, E.KARPUZ(Student), 2015

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Disassembly line balancing with hazardous task failures – Model based solution approaches**  
Goksoy Kalaycilar E., AZİZOĞLU M., BATUN S.  
Computers and Industrial Engineering, vol.190, 2024 (SCI-Expanded)
- II. **Integrated reinforcement and repair of interdependent infrastructure networks under disaster-related uncertainties**  
Canbilen Sütüçen T., Batun S., Çelik M.  
European Journal of Operational Research, vol.308, no.1, pp.369-384, 2023 (SCI-Expanded)
- III. **A stochastic programming approach for the disassembly line balancing with hazardous task failures**  
Kalaycilar E. G., Batun S., Azizoğlu M.  
International Journal of Production Research, vol.60, no.10, pp.3237-3262, 2022 (SCI-Expanded)
- IV. **Closed-loop supply chain network design under demand, return and quality uncertainty**  
Biçe K., Batun S.  
Computers and Industrial Engineering, vol.155, 2021 (SCI-Expanded)
- V. **Optimal Liver Acceptance for Risk-Sensitive Patients**  
BATUN S., Schaefer A. J., Bhandari A., Roberts M. S.  
SERVICE SCIENCE, vol.10, no.3, pp.320-333, 2018 (SSCI)
- VI. **Reassessing tradeoffs inherent to simultaneous maintenance and production planning**  
Batun S., Maillart L. M.  
Production and Operations Management, vol.21, no.2, pp.396-403, 2012 (SCI-Expanded)
- VII. **Operating room pooling and parallel surgery processing under uncertainty**  
Batun S., Denton B. T., Huschka T. R., Schaefer A. J.  
INFORMS Journal on Computing, vol.23, no.2, pp.220-237, 2011 (SCI-Expanded)
- VIII. **Single machine scheduling with preventive maintenances**  
Batun S., Azizoğlu M.  
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.47, no.7, pp.1753-1771, 2009 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Nurse Scheduling and Rescheduling Under Uncertainty**  
Karpuz E., Batun S.  
Hacettepe Üniversitesi İktisadi ve İdari Bilimler Fakültesi Dergisi, vol.38, no.1, pp.75-95, 2020 (Peer-Reviewed)

Journal)

**II. Assigning Regions to Sales Representatives at Pfizer Turkey**

Batun S., Köksalan M.

INFORMS Transactions on Education, vol.9, no.2, pp.70-83, 2009 (Peer-Reviewed Journal)

## **Books & Book Chapters**

**I. Assigning Regions to Sales Representatives at Pfizer Turkey**

Köksalan M., Batun S.

in: Multiple Criteria Decision Making and Aiding (International Series in Operations Research & Management Science, Vol. 274), Huber S., Geiger M., de Almeida A., Editor, Springer, London/Berlin, Zug, pp.221-230, 2019

**II. Optimization in Healthcare Delivery Modeling: Methods and Applications**

Batun S., Beğen M. A.

in: Handbook of Healthcare Operations Management (International Series in Operations Research & Management Science, Vol. 184), Brian T. Denton, Editor, Springer, London/Berlin, New York, pp.75-119, 2013

## **Supported Projects**

BATUN S., BİLGİÇ U. T., Project Supported by Higher Education Institutions, Çok Dönemli Randevu Çizelgeleme Problemi İçin Rassal Programlama Yaklaşımları, 2016 - 2017

## **Metrics**

Publication: 19

Citation (WoS): 248

Citation (Scopus): 278

H-Index (WoS): 7

H-Index (Scopus): 6