

Prof. SERHAN DURAN

Personal Information

Office Phone: [+90 312 210 2957](tel:+903122102957)

Email: sduran@metu.edu.tr

Web: <https://avesis.metu.edu.tr/sduran>

Address: Orta Doğu Teknik Üniversitesi, Endüstri Mühendisliği Bölümü, Çankaya 06800, Ankara

International Researcher IDs

ScholarID: [syDCKUIAAAAJ&hl=tr&oi=sra](https://scholar.google.com/citations?hl=tr&oi=sra)

ORCID: 0000-0001-7746-0441

Publons / Web Of Science ResearcherID: K-2503-2017

ScopusID: 23485084000

Yoksis Researcher ID: 164958

Education Information

Undergraduate, Cankaya University, Faculty Of Law, Turkey 2016 - 2020

Doctorate, Georgia Institute of Technology, School Of Industrial And Systems Engineering , Industrial And Systems Engineering , United States Of America 2002 - 2007

Postgraduate, Georgia Institute of Technology, School of Industrial And Systems Engineering , Industrial And Systems Engineering , United States Of America 2004 - 2005

Postgraduate, Georgia Institute of Technology, School of Industrial And Systems Engineering , Industrial And Systems Engineering , United States Of America 2002 - 2004

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, Turkey 1998 - 2002

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, OPTIMIZING DEMAND MANAGEMENT IN STOCHASTIC SYSTEMS TO IMPROVE FLEXIBILITY AND PERFORMANCE, Georgia Institute of Technology, School Of Industrial And Systems Engineering , 2007

Research Areas

Stochastic Processes, Optimization Theory and Methods, Inventory Systems, Facility Location and Design, Engineering Economics, Financial Models and Applications

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, 2019 -

Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, 2015 - 2019

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, 2007 - 2015

Advising Theses

Duran S., Bakal İ. S., The extent and limitations of managerial accounting function within ERP systems, Postgraduate, M.HARMAN(Student), 2022

DURAN S., Comparison of lead time quotation policies in e-commerce environment, Postgraduate, E.Altuntaş(Student), 2019

DURAN S., UTADIS based multi-objective evolutionary algorithms for medical diagnosis problems, Doctorate, H.Şahin(Student), 2019

DURAN S., Optimal operation policies for multi-item vending machines with product dedicated variant towers, Postgraduate, H.Şahin(Student), 2019

DURAN S., Scheduling for home energy management system, Postgraduate, H.MERDANOĞLU(Student), 2018

DURAN S., Parameter estimators in Phase I and performance of individuals chart, Postgraduate, M.ATALAY(Student), 2016

DURAN S., Prepositioning of relief items in humanitarian logistics considering lateral transshipment opportunities, Postgraduate, S.BAŞKAYA(Student), 2015

DURAN S., İYİĞÜN C., The valuation of government guarantees provided for municipalities, Postgraduate, M.ESAT(Student), 2015

DURAN S., Humanitarian logistics: Pre-positioning of relief items in Istanbul, Postgraduate, A.SİNEM(Student), 2014

DURAN S., Margin call risk management with futures and options, Postgraduate, M.ALIRAVCI(Student), 2013

DURAN S., Pre-positioning disaster response facilities and relief items considering probabilistic constraints: A case study on Istanbul region, Postgraduate, Ç.RENKLİ(Student), 2013

DURAN S., Management of bundled tickets in sports and entertainment industry, Doctorate, E.YAKICI(Student), 2013

DURAN S., Dynamic switching times for season and single tickets in sports and entertainment with time dependent demand rates, Postgraduate, Y.KENAN(Student), 2011

DURAN S., The effects of natural disaster trends on the pre-positioning implementation in humanitarian logistics networks, Postgraduate, M.BOZKURT(Student), 2011

DURAN S., Integrated risk management applications in offshore windfarm construction, Postgraduate, T.PELİN(Student), 2011

DURAN S., BAKAL İ. S., Tactical inventory and backorder decisions for systems with predictable production yield, Postgraduate, T.MART(Student), 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A multi-objective approach in expanding the pre-positioning warehouse networks in humanitarian logistics**
Yakici E., Karatas M., Duran S.
EUROPEAN JOURNAL OF INDUSTRIAL ENGINEERING, vol.15, no.1, pp.67-102, 2021 (SCI-Expanded)
- II. **Finding optimal schedules in a home energy management system**
Merdanoglu H., Yakici E., Dogan O. T., DURAN S., Karatas M.
ELECTRIC POWER SYSTEMS RESEARCH, vol.182, 2020 (SCI-Expanded)
- III. **Patient classification considering the risk of restenosis after coronary stent placement**
Sahin H., DURAN S., Yakici E., Sahin M.
JOURNAL OF HEURISTICS, vol.25, pp.703-729, 2019 (SCI-Expanded)

- IV. **Guidelines for automating Phase I of control charts by considering effects on Phase-II performance of individuals control chart**
Atalay M., TESTİK M. C., DURAN S., Weiss C. H.
QUALITY ENGINEERING, vol.32, no.2, pp.223-243, 2019 (SCI-Expanded)
- V. **Cyclic ordering policies from capacitated suppliers under limited cycle time**
EKİCİ A., Ozener O. O., DURAN S.
COMPUTERS & INDUSTRIAL ENGINEERING, vol.128, pp.336-345, 2019 (SCI-Expanded)
- VI. **Pre-positioning of relief items in humanitarian logistics considering lateral transshipment opportunities**
BASKAYA S., Ertem M. A., Duran S.
SOCIO-ECONOMIC PLANNING SCIENCES, vol.57, pp.50-60, 2017 (SCI-Expanded)
- VII. **Pre-Positioning Disaster Response Facilities and Relief Items**
RENKLİ C., DURAN S.
HUMAN AND ECOLOGICAL RISK ASSESSMENT, vol.21, no.5, pp.1169-1185, 2015 (SCI-Expanded)
- VIII. **League scheduling and game bundling in sports industry**
DURAN S., Ozener O. O., Yakici E.
COMPUTERS & INDUSTRIAL ENGINEERING, vol.74, pp.92-101, 2014 (SCI-Expanded)
- IX. **Selection of event tickets for bundling in sports and entertainment industry**
YAKICI E., Ozener O. O., DURAN S.
COMPUTERS & INDUSTRIAL ENGINEERING, vol.74, pp.257-269, 2014 (SCI-Expanded)
- X. **Tactical inventory and backorder decisions for systems with predictable production yield**
MART T., Duran S., Bakal I. S.
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, vol.143, no.2, pp.294-303, 2013 (SCI-Expanded)
- XI. **Effects of Natural Disaster Trends: A Case Study for Expanding the Pre-Positioning Network of CARE International**
BOZKURT M., DURAN S.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH, vol.9, no.8, pp.2863-2874, 2012 (SCI-Expanded)
- XII. **Dynamic switching times from season to single tickets in sports and entertainment**
Duran S., Swann J. L., Yakici E.
OPTIMIZATION LETTERS, vol.6, no.6, pp.1185-1206, 2012 (SCI-Expanded)
- XIII. **Dynamically Switching among Bundled and Single Tickets with Time-Dependent Demand Rates**
Duran S., PAKYARDIM Y. K.
MATHEMATICAL PROBLEMS IN ENGINEERING, 2012 (SCI-Expanded)
- XIV. **Pre-Positioning of Emergency Items for CARE International**
Duran S., Gutierrez M. A., Keskinocak P.
INTERFACES, vol.41, no.3, pp.223-237, 2011 (SCI-Expanded)
- XV. **Policies utilizing tactical inventory for service-differentiated customers**
Duran S., Liu T., Simchi-Levi D., Swann J. L.
OPERATIONS RESEARCH LETTERS, vol.36, no.2, pp.259-264, 2008 (SCI-Expanded)
- XVI. **Optimal timing of switches between product sales for sports and entertainment tickets**
Drake M. J., DURAN S., Griffin P. M., Swann J. L.
NAVAL RESEARCH LOGISTICS, vol.55, no.1, pp.59-75, 2008 (SCI-Expanded)
- XVII. **Optimal production and inventory policies of priority and price-differentiated customers**
Duran S., LIU T., SIMCHİ-LEVI D., Swann J. L.
IIE TRANSACTIONS, vol.39, no.9, pp.845-861, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **Prepositioning of Relief Items for an Earthquake in İstanbul**

Books & Book Chapters

- I. **Humanitarian Logistics: Advanced Purchasing and Pre-Positioning of Relief Items**
DURAN S., ERGUN Ö., Keskinocak P., Swann J. L.
in: Handbook of Global Logistics Transportation in International Supply Chains, James H. Bookbinder, Editor,
Springer, New York, pp.447-462, 2013

Refereed Congress / Symposium Publications in Proceedings

- I. **Cloud-based Optimal Energy Scheduling of Photovoltaics and Electric Vehicle-integrated Community Microgrids**
Zehir M. A., Tufan Dogan O., Merdanoglu H., Yakici E., Duran S., Can Akyildirim H.
4th IEEE Global Power, Energy and Communication Conference, GPECOM 2022, Cappadocia, Turkey, 14 - 17 June 2022, pp.535-540
- II. **Patient Classification Considering the Risk of Restenosis After Coronary Stent Placement**
ŞAHİN H., DURAN S., YAKICI E., ŞAHİN M.
YAEM 2019, Turkey, 12 - 14 June 2019
- III. **Operation Policies for Multi-Item Vendor Machines**
YAKICI E., Merdanoğlu H., Doğan O. T., DURAN S.
4th International Researchers, Statisticians and Young Statisticians Conference, 28 - 30 April 2018
- IV. **Assessing In-stent-restenosis Risks of Patients After Coronary Stent Placement**
halenur Ş., DURAN S., YAKICI E.
INFORMS Annual Meeting 2017, 22 - 25 October 2017
- V. **Classification of Patients According to Their Risks of Restenosis using Multi Criteria Classification Models and Regression Techniques**
HALENUR Ş., DURAN S., YAKICI E.
International Researchers, Statisticians and Young Statisticians Congress 2017, Konya, Turkey, 24 - 26 May 2017
- VI. **A Multi-level Continuous Minimax Location Problem with Regional Demand**
FARIDYAHYAEI A., TURAL M. K., DURAN S.
International Workshop on Mathematical Methods in Engineering, 27 - 29 April 2017
- VII. **Humanitarian Logistics Pre Positioning of Relief Items in Istanbul**
DURAN S., KONU S., Yakıcı E.
Informs Annual Meeting, 1 - 04 November 2015
- VIII. **Pre-positioning disaster response facilities and relief items**
Renkli C., DURAN S.
4th International Conference on Risk Analysis and Crisis Response, RACR 2013, İstanbul, Turkey, 27 - 29 August 2013, pp.673-679
- IX. **Switching Times from Season to Single Tickets**
Yakici E., DURAN S.
Annual International Conference of the German-Operations-Research-Society (GOR), Neubiberg, Germany, 1 - 03 September 2010, pp.137-142

Supported Projects

DURAN S., Project Supported by Higher Education Institutions, Spor Ve Eğlence Sektöründe Birden Fazla

Organizasyonun Paket Halinde Satılma Methodları, 2011 - 2011

Metrics

Publication: 28

Citation (WoS): 376

Citation (Scopus): 515

H-Index (WoS): 8

H-Index (Scopus): 10

Non Academic Experience

METU

METU

METU