

Prof. SERHAN DURAN

Personal Information

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Education Information

Under Graduate, 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

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

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

Under Graduate, 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

Advancing Research

- DURAN S., Scheduling for home energy management system, Post Graduate, H.MERDANOĞLU(Student), 2018
- DURAN S., Parameter estimators in Phase I and performance of individuals chart, Post Graduate, M.ATLAY(Student), 2016
- DURAN S., Prepositioning of relief items in humanitarian logistics considering lateral transshipment opportunities, Post Graduate, S.BAŞKAYA(Student), 2015
- İYİĞÜN C., DURAN S., The valuation of government guarantees provided for municipalities, Post Graduate, M.ESAT(Student), 2015
- DURAN S., Humanitarian logistics: Pre-positioning of relief items in Istanbul, Post Graduate, A.SİNEM(Student), 2014
- DURAN S., Management of bundled tickets in sports and entertainment industry, Doctorate, E.YAKICI(Student), 2013
- DURAN S., Pre-positioning disaster response facilities and relief items considering probabilistic constraints: A case study on Istanbul region, Post Graduate, Ç.RENKLİ(Student), 2013
- DURAN S., Margin call risk management with futures and options, Post Graduate, M.ALIRAVCI(Student), 2013
- DURAN S., Dynamic switching times for season and single tickets in sports and entertainment with time dependent demand rates, Post Graduate, Y.KENAN(Student), 2011
- DURAN S., The effects of natural disaster trends on the pre-positioning implementation in humanitarian logistics networks, Post Graduate, M.BOZKURT(Student), 2011
- DURAN S., Integrated risk management applications in offshore windfarm construction, Post Graduate, T.PELİN(Student), 2011
- BAKAL İ. S., DURAN S., Tactical inventory and backorder decisions for systems with predictable production yield, Post Graduate, T.MART(Student), 2010

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **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 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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, pp.223-243, 2019 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **Pre-Positioning Disaster Response Facilities and Relief Items**
RENKLİ C., DURAN S.
HUMAN AND ECOLOGICAL RISK ASSESSMENT, vol.21, pp.1169-1185, 2015 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **League scheduling and game bundling in sports industry**
DURAN S., Ozener O. O., Yakici E.
COMPUTERS & INDUSTRIAL ENGINEERING, vol.74, pp.92-101, 2014 (Journal Indexed in SCI)
- **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, pp.294-303, 2013 (Journal Indexed in SCI)

● **Dynamic switching times from season to single tickets in sports and entertainment**

Duran S., Swann J. L. , Yakici E.

● OPTIMIZATION LETTERS, vol.6, pp.1185-1206, 2012 (Journal Indexed in SCI)

● **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, pp.2863-2874, 2012

(Journal Indexed in SCI)

● **Dynamically Switching among Bundled and Single Tickets with Time-Dependent Demand Rates**

Duran S., PAKYARDIM Y. K.

● MATHEMATICAL PROBLEMS IN ENGINEERING, 2012 (Journal Indexed in SCI)

● **Pre-Positioning of Emergency Items for CARE International**

Duran S., Gutierrez M. A. , Keskinocak P.

● INTERFACES, vol.41, pp.223-237, 2011 (Journal Indexed in SCI)

● **Policies utilizing tactical inventory for service-differentiated customers**

Duran S., Liu T., Simchi-Levi D., Swann J. L.

● OPERATIONS RESEARCH LETTERS, vol.36, pp.259-264, 2008 (Journal Indexed in SCI)

● **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, pp.59-75, 2008 (Journal Indexed in SCI)

● **Optimal production and inventory policies of priority and price-differentiated customers**

Duran S., LIU T., SIMCHI-LEVI D., Swann J. L.

IIE TRANSACTIONS, vol.39, pp.845-861, 2007 (Journal Indexed in SCI)

Articles Published in Other Journals

● **Prepositioning of Relief Items for an Earthquake in İstanbul**

Konu A. S. , Duran S., Yakıcı E.

Verimlilik Dergisi, vol.1, pp.141-159, 2018 (Other Refereed National Journals)

Books & Book Chapters

● **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

● **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

● **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

- **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
- **Humanitarian Logistics Pre Positioning of Relief Items in Istanbul**
DURAN S., KONU S., Yakıcı E.
Informs Annual Meeting, 1 - 04 November 2015
- **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
- **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

Citations

Total Citations (WOS):252

h-index (WOS):7