

Prof. YAŞAR YASEMİN SERİN

Personal Information

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Education Information

Doctorate, University Of North Carolina At Chapel Hill, Operations Research, Operations Research, United States Of America 1985 - 1989

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Markov Karar Süreçleri İçin Uygulanabilir Politikalar, University Of North Carolina At Chapel Hill, Yöneylem Araştırması, 1981

Post Graduate, Elektrik Arzında Yatırım İçin Ayrışık Bir Modelin Testi, Middle East Technical University, 1981

Research Areas

Technical Sciences, Industrial Engineering , Stochastic Modeling, Stochastic Processes, Supply Chain and Logistics Management

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, 2014 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, 2011 - 2014

Professional Experience

Head of Department, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, 2017 - 2018

Head of Department, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, 2017 - 2018

Deputy Head of Department, Middle East Technical University, Faculty of Engineering, 1992 - 1996

Advising Theses

SERİN Y. Y. , CONDITION BASED MAINTENANCE POLICIES FOR A CRITICAL UNIT, Post Graduate, E.KABLAN(Student), 2018

SERİN Y. Y. , SAVAŞANERİL TÜFEKÇİ S., Pricing with informative delay announcements, Post Graduate, S.KARAKAYA(Student), 2017

SERİN Y. Y. , Nonlinear and dynamic programming models for an inventory problem in a partially observable environment, Post Graduate, A.DARENDELİLER(Student), 2016

SERİN Y. Y. , Tolerance based reliability analysis of an analog electric circuit, Post Graduate, S.ÇAKIR(Student), 2011

SERİN Y. Y. , SAVAŞANERİL TÜFEKÇİ S., The value of information in a manufacturing facility taking production and lead time quotation decisions, Post Graduate, C.KAMAN(Student), 2011

SERİN Y. Y. , SAVAŞANERİL TÜFEKÇİ S., Incentive, subsidy, penalty mechanisms and pooled, unpooled allocation of production capacity in service parts management systems, Post Graduate, E.ATAK(Student), 2011

SERİN Y. Y. , Competition and collaboration in spare parts management systems, Post Graduate, M.USTA(Student), 2010

SERİN Y. Y. , SAVAŞANERİL TÜFEKÇİ S., An analysis of benefits of inventory and service pooling and information sharing in spare parts management systems, Doctorate, B.SATIR(Student), 2010

SERİN Y. Y. , A game of clustered electricity generators, Post Graduate, A.GÜNAYDIN(Student), 2009

SERİN Y. Y. , Game theoretic approach to newsboy problem: Nash, Stackelberg, Cooperative games, Post Graduate, A.SULTAN(Student), 2005

SERİN Y. Y. , A game theoretic approach to competitive newsboy problem with bounded demands, Post Graduate, A.NALÇA(Student), 2003

SERİN Y. Y. , Randomized control limit policies for Markov decision processes with linear constraints, Post Graduate, N.FİDAN(Student), 2000

SERİN Y. Y. , Markov decision processes with restricted observations, Post Graduate, Z.MÜGE(Student), 1992

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

- **A new approximate evaluation method for two-echelon inventory systems with emergency shipments**
Oezkan E., VAN HOUTUM G., Serin Y. Y.
ANNALS OF OPERATIONS RESEARCH, vol.224, pp.147-169, 2015 (Journal Indexed in SCI)
- **An interactive probabilistic approach to multi-criteria sorting**
BUGDACI A. G. , KOKSALAN M., Ozpeynirci S., Serin Y. Y.
IIE TRANSACTIONS, vol.45, pp.1048-1058, 2013 (Journal Indexed in SCI)
- **Production and lead time quotation under imperfect shop floor information**
KAMAN C., SAVASANERIL S., Serin Y. Y.
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, vol.144, pp.422-431, 2013 (Journal Indexed in SCI)
- **A new approximate evaluation method for two echelon inventory systems with emergency shipments** Diğer 2 yazar yurt dışında
ERHUN ö., GEERT JAN h., SERİN Y. Y.
Annals Of Operations Research, vol.224, pp.147-169, 2013 (Journal Indexed in SCI Expanded)
- **Pooling through lateral transshipments in service parts systems**
Satir B., SAVASANERIL S., Serin Y. Y.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.220, pp.370-377, 2012 (Journal Indexed in SCI)
- **A geometric representation of profits in a supply chain network**
Serin Y. Y.
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, vol.137, pp.36-44, 2012 (Journal Indexed in SCI)
- **Comments on: "A policy improvement method for constrained average Markov decision processes"**
[Oper. Res. Lett. 35 (2007) 434-438]
Serin Y.
OPERATIONS RESEARCH LETTERS, vol.37, pp.69, 2009 (Journal Indexed in SCI)
- **Competitive newsvendor problems with the same Nash and Stackelberg solutions**
Serin Y. Y.
OPERATIONS RESEARCH LETTERS, vol.35, pp.83-94, 2007 (Journal Indexed in SCI)

- **Markov decision processes under observability constraints**
Serin Y. Y. , Kulkarni V.
MATHEMATICAL METHODS OF OPERATIONS RESEARCH, vol.61, pp.311-328, 2005 (Journal Indexed in SCI)
- **Lot splitting under learning effects with minimal revenue requirements and multiple lot types**
Serin Y. Y. , KAYALIGIL S.
IIE TRANSACTIONS, vol.35, pp.689-698, 2003 (Journal Indexed in SCI)
- **Markov decision processes with restricted observations: Finite horizon case**
Serin Y. Y. , AVSAR Z. M.
NAVAL RESEARCH LOGISTICS, vol.44, pp.439-456, 1997 (Journal Indexed in SCI)
- **A NONLINEAR-PROGRAMMING MODEL FOR PARTIALLY OBSERVABLE MARKOV DECISION-PROCESSES - FINITE-HORIZON CASE**
SERIN Y. Y.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.86, pp.549-564, 1995 (Journal Indexed in SSCI)

Books & Book Chapters

- **Markov Regenerative Processes**
Serin Y. Y.
in: Wiley Encyclopedia of OR/MS , Cochran J. Cox Jr. L. Keskinocak P. Kharoufeh J. Smith J., Editor, John Wiley & Sons, West Sussex, UK , New-York, pp.1-5, 2011
- **Semi-Markov Processes**
SERİN Y. Y.
in: Wiley Encyclopedia of OR/MS, Cochran J. Cox Jr. L. Keskinocak P. Kharoufeh J. Smith J., Editor, Wiley, Atlanta, pp.1-6, 2010

Refereed Congress / Symposium Publications in Proceedings

- **Pricing with Informative Delay Announcements**
KARAKAYA S., SAVAŞANERİL TÜFEKÇİ S., SERİN Y. Y.
International Conference on Operations Research, 6 - 08 September 2017
- **Implementable policies: Discounted cost case**
Serin Y. Y. , KULKARNI V.
2nd International Workshop on the Numerical Solution of Markov Chains, North-Carolina, United States Of America, 18 January 1995, pp.283-306

Supported Projects

SERİN Y. Y. , mutlu s., KÖKSALAN M. M. , Project Supported by Higher Education Institutions, Çok amaçlı sıralama problemleri için etkileşimli ve olsuluklu yaklaşımlar, 2014 - 2014

Citations

Total Citations (WOS):55

h-index (WOS):5