

# Prof. YAŞAR YASEMİN SERİN

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: ABJ-8586-2022

ScopusID: 6602750142

Yoksis Researcher ID: 125953

## 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

Postgraduate, 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

## Academic and Administrative Experience

Middle East Technical University, Faculty of Engineering, 1992 - 1996

## Courses

Stochastic Processes, Postgraduate, 2020 - 2021

## Advising Theses

SERİN Y. Y., A Markov decision process with unobservable strength under Markovian environment, Postgraduate, P.Altınkeser(Student), 2020

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

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

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

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

SERİN Y. Y., Tolerance based reliability of an analog electric circuit, Postgraduate, S.Çakır(Student), 2011

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

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

SAVAŞANERİL TÜFEKÇİ S., SERİN Y. Y., 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., Competition and collaboration in spare parts management systems, Postgraduate, M.USTA(Student), 2010

SERİN Y. Y., Analysis of a two-echelon multi-item inventory system with postponement, Postgraduate, E.Özkan(Student), 2010

SERİN Y. Y., SAVAŞANERİL TÜFEKÇİ S., Competition and collaboration in service parts management systems, Postgraduate, M.Usta(Student), 2010

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

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

SERİN Y. Y., Game theoretic approach to newsboy problem : nash, stackeleberg, cooperative games, Postgraduate, A.Sultan(Student), 2005

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

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

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

## Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Middle East Technical University, January, 2020

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

- I. **Pricing with delivery time information sharing decisions in service systems**  
Karakaya S., Savasaneril S., Serin Y.  
Computers and Industrial Engineering, vol.159, 2021 (SCI-Expanded)
- II. **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, no.1, pp.147-169, 2015 (SCI-Expanded)
- III. **An interactive probabilistic approach to multi-criteria sorting**  
BUGDACI A. G., KOKSALAN M., Ozpeynirci S., Serin Y. Y.  
IIE TRANSACTIONS, vol.45, no.10, pp.1048-1058, 2013 (SCI-Expanded)
- IV. **Production and lead time quotation under imperfect shop floor information**  
KAMAN C., SAVASANERIL S., Serin Y. Y.  
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, vol.144, no.2, pp.422-431, 2013 (SCI-Expanded)
- V. **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 (SCI-Expanded)
- VI. **Pooling through lateral transshipments in service parts systems**  
Satir B., SAVASANERIL S., Serin Y. Y.  
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.220, no.2, pp.370-377, 2012 (SCI-Expanded)
- VII. **A geometric representation of profits in a supply chain network**  
Serin Y. Y.  
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, vol.137, no.1, pp.36-44, 2012 (SCI-Expanded)
- VIII. **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, no.1, pp.69, 2009 (SCI-Expanded)
- IX. **Competitive newsvendor problems with the same Nash and Stackelberg solutions**  
Serin Y. Y.  
OPERATIONS RESEARCH LETTERS, vol.35, no.1, pp.83-94, 2007 (SCI-Expanded)
- X. **Markov decision processes under observability constraints**  
Serin Y. Y., Kulkarni V.  
MATHEMATICAL METHODS OF OPERATIONS RESEARCH, vol.61, no.2, pp.311-328, 2005 (SCI-Expanded)
- XI. **Lot splitting under learning effects with minimal revenue requirements and multiple lot types**  
Serin Y. Y., KAYALIGIL S.  
IIE TRANSACTIONS, vol.35, no.8, pp.689-698, 2003 (SCI-Expanded)
- XII. **Markov decision processes with restricted observations: Finite horizon case**  
Serin Y. Y., AVSAR Z. M.  
NAVAL RESEARCH LOGISTICS, vol.44, no.5, pp.439-456, 1997 (SCI-Expanded)
- XIII. **A NONLINEAR-PROGRAMMING MODEL FOR PARTIALLY OBSERVABLE MARKOV DECISION-PROCESSES - FINITE-HORIZON CASE**  
SERIN Y. Y.  
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.86, no.3, pp.549-564, 1995 (SSCI)

## Books & Book Chapters

### I. 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

### II. 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

### I. Deterioration Modelling and Condition Based Maintenance Policies

Kablan E., Serin Y.

Annual Reliability and Maintainability Symposium (RAMS), California, United States Of America, 27 - 30 January 2020

### II. Pricing with Informative Delay Announcements

KARAKAYA S., SAVAŞANERİL TÜFEKÇİ S., SERİN Y. Y.

International Conference on Operations Research, 6 - 08 September 2017

### III. 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

### IV. Markov Decision Processes with Restricted Observations: Finite Horizon Model

Serin Y. Y., Aşar Z. M.

Symposium on Applied Mathematical Programming and Modeling APMOD93, Budapest, Hungary, 6 - 08 January 1993, pp.521-528

## Episodes in the Encyclopedia

### I. Wiley Encyclopedia of OR/MS

SERİN Y. Y.

wiley, pp., 2011

## Supported Projects

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

## Metrics

Publication: 20

Citation (WoS): 69

Citation (Scopus): 73

H-Index (WoS): 5

H-Index (Scopus): 6

## Non Academic Experience

METU