

## Assoc. Prof. ZEYNEP PELİN BAYINDIR

### Personal Information

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### Education Information

Doctorate, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, Turkey 1997 - 2002

Post Graduate, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, Turkey 1995 - 1997

Under Graduate, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, Turkey 1991 - 1995

### Research Areas

Industrial Engineering , Stochastic Modeling, Supply Chain and Logistics Management

### Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, 2005 - Continues

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, 1995 - 2002

### Professional Experience

Head of Department, Middle East Technical University, Graduate School of Natural and Applied Sciences, Yöneylem Araştırması (Dr), 2013 - Continues

Deputy Head of Department, Middle East Technical University, Faculty of Engineering, Department of Industrial Engineering, 2013 - Continues

### Advising Theses

BAKAL İ. S. , BAYINDIR Z. P. , Effects of competition on product recovery decisions, Post Graduate, C.BARIŞ(Student), 2018

İYİGÜN C., BAYINDIR Z. P. , Sağlık kuruluşu konumlandırma problemi için bir genetik algoritma, Post Graduate, M.İŞBİLİR(Student), 2016

İYİGÜN C., BAYINDIR Z. P. , Locating ems vehicles in general networks with an approximate queueing model and a metaheuristic solution approach, Post Graduate, M.ALTAN(Student), 2015

BAKAL İ. S. , BAYINDIR Z. P. , An integrated model for preventive maintenance and spare part inventory planning, Post

Graduate, P.KAYA(Student), 2014

BAKAL İ. S. , BAYINDIR Z. P. , Value of disruption information in an EOQ environment, Post Graduate, D.ESİN(Student), 2014

İYİĞÜN C., BAYINDIR Z. P. , Network planning of walk-in clinics on roadsides in Africa, Post Graduate, S.TAYMAZ(Student), 2013

BAYINDIR Z. P. , Profit oriented disassembly line balancing with stochastic task times in hybrid lines, Post Graduate, V.GÜMÜŞKAYA(Student), 2013

BAYINDIR Z. P. , A two-sided CUSUM for first-order integer-valued autoregressive processes of poisson counts, Post Graduate, P.YONTAY(Student), 2011

BAKAL İ. S. , BAYINDIR Z. P. , An assessment of a two-echelon inventory system against alternative systems, Post Graduate, S.ÖZPAMUKÇU(Student), 2011

BAYINDIR Z. P. , A heuristic approach for profit oriented disassembly lot-sizing problem, Post Graduate, M.KAYA(Student), 2011

BAKAL İ. S. , BAYINDIR Z. P. , Optimal pricing and production decisions in reusable container systems, Post Graduate, B.ATAMER(Student), 2010

BAYINDIR Z. P. , A hierarchical decision support system for workforce planning in medical equipment maintenance services, Post Graduate, Ç.CİHANGİR(Student), 2010

BAYINDIR Z. P. , Inventory management through vendor managed inventory in a supply chain with stochastic demand, Post Graduate, H.GÜNEŞ(Student), 2010

BAYINDIR Z. P. , Carbon regulated supply chain management, Post Graduate, S.CANSIZ(Student), 2010

BAYINDIR Z. P. , Multi-item two-echelon spare parts inventory control problem with batch ordering in the central warehouse, Doctorate, E.TOPAN(Student), 2010

BAYINDIR Z. P. , Value of quality information of returns in product recovery management, Post Graduate, A.ATABARUT(Student), 2009

BAKAL İ. S. , BAYINDIR Z. P. , Centralization and advance quality information in remanufacturing, Post Graduate, M.ÜNAL(Student), 2009

BAYINDIR Z. P. , Integrated procurement and transportation planning for purchased components: A case study, Post Graduate, H.DENİZ(Student), 2008

BAYINDIR Z. P. , A case study: Improvement of component placement sequence of a turret style SMT machine, Post Graduate, M.SAVAŞ(Student), 2007

BAYINDIR Z. P. , Demand driven disassembly planning, Post Graduate, T.ERTEM(Student), 2007

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

- **A healthcare facility location problem for a multi -disease, multi -service environment under risk aversion**  
Taymaz S., Iyigun C., Bayindir Z. P. , Dellaert N. P.  
SOCIO-ECONOMIC PLANNING SCIENCES, vol.71, 2020 (Journal Indexed in SCI)
- **Closing the loop in supply chains: Economic and environmental effects**  
Alegoz M., Kaya O., BAYINDIR Z. P.  
COMPUTERS & INDUSTRIAL ENGINEERING, vol.142, 2020 (Journal Indexed in SCI)
- **Exact and heuristic approaches for joint maintenance and spare parts planning**  
Bulbul P., BAYINDIR Z. P. , BAKAL İ. S.  
COMPUTERS & INDUSTRIAL ENGINEERING, vol.129, pp.239-250, 2019 (Journal Indexed in SCI)
- **Locating emergency vehicles with an approximate queuing model and a meta-heuristic solution approach**  
AKDOĞAN M. A. , BAYINDIR Z. P. , İYİĞÜN C.  
TRANSPORTATION RESEARCH PART C-EMERGING TECHNOLOGIES, vol.90, pp.134-155, 2018 (Journal Indexed in SCI)
- **Value of disruption information in an EOQ environment**

BAKAL İ. S. , BAYINDIR Z. P. , Emer D. E.

EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.263, pp.446-460, 2017 (Journal Indexed in SCI)

● **Heuristics for multi-item two-echelon spare parts inventory control subject to aggregate and individual service measures**

Topan E., BAYINDIR Z. P. , Tan T.

● EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.256, pp.126-138, 2017 (Journal Indexed in SCI)

● **Remedial actions for disassembly lines with stochastic task times**

ALTEKİN F. T. , BAYINDIR Z. P. , Gumuskaya V.

● COMPUTERS & INDUSTRIAL ENGINEERING, vol.99, pp.78-96, 2016 (Journal Indexed in SCI)

● **Optimal pricing and production decisions in utilizing reusable containers**

Atamer B., BAKAL İ. S. , BAYINDIR Z. P.

● INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, vol.143, pp.222-232, 2013 (Journal Indexed in SCI)

● **A Two-Sided Cumulative Sum Chart for First-Order Integer-Valued Autoregressive Processes of Poisson Counts**

Yontay P., Weiss C. H. , TESTİK M. C. , BAYINDIR Z. P.

● QUALITY AND RELIABILITY ENGINEERING INTERNATIONAL, vol.29, pp.33-42, 2013 (Journal Indexed in SCI)

● **Multi-item two-echelon spare parts inventory control problem with batch ordering in the central warehouse under compound Poisson demand**

Topan E., BAYINDIR Z. P.

● JOURNAL OF THE OPERATIONAL RESEARCH SOCIETY, vol.63, pp.1143-1152, 2012 (Journal Indexed in SCI)

● **An exact solution procedure for multi-item two-echelon spare parts inventory control problem with batch ordering in the central warehouse**

Topan E., BAYINDIR Z. P. , Tan T.

● OPERATIONS RESEARCH LETTERS, vol.38, pp.454-461, 2010 (Journal Indexed in SCI)

● **Analyzing the effects of inventory cost setting rules in a disassembly and recovery environment**

Akcali E., Bayindir Z. P.

● INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.46, pp.267-288, 2008 (Journal Indexed in SCI)

● **A deterministic inventory/production model with general inventory cost rate function and piecewise linear concave production costs**

Bayindir Z. P. , Birbil S. I. , Frenk J. B. G.

● EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.179, pp.114-123, 2007 (Journal Indexed in SCI)

● **Assessing the benefits of remanufacturing option under one-way substitution and capacity constraint**

Bayindir Z. P. , Erkip N., Gullu R.

● COMPUTERS & OPERATIONS RESEARCH, vol.34, pp.487-514, 2007 (Journal Indexed in SCI)

● **Determination of recovery effort for a probabilistic recovery system under various inventory control policies**

Bayindir Z. P. , Dekker R., Porras E.

● OMEGA-INTERNATIONAL JOURNAL OF MANAGEMENT SCIENCE, vol.34, pp.571-584, 2006 (Journal Indexed in SCI)

● **The joint replenishment problem with variable production costs**

Bayindir Z. P. , Birbil S. I. , Frenk J. B. G.

● EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, vol.175, pp.622-640, 2006 (Journal Indexed in SCI)

● **Dynamic lot sizing with product returns and remanufacturing**

Teunter R. H. , Bayindir Z. P. , Van Den Heuvel W.

● INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.44, pp.4377-4400, 2006 (Journal Indexed in SCI)

● **Assessing the benefits of remanufacturing option under one-way substitution**

Bayindir Z., Erkip N., Gullu R.

● JOURNAL OF THE OPERATIONAL RESEARCH SOCIETY, vol.56, pp.286-296, 2005 (Journal Indexed in SCI)

● **A model to evaluate inventory costs in a remanufacturing environment**

Bayindir Z., Erkip N., Gullu R.

INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, pp.597-607, 2003 (Journal Indexed in SCI)

## Refereed Congress / Symposium Publications in Proceedings

- **A Location Problem for Emergency Healthcare Facilities**  
BAYINDIR Z. P. , İYİĞÜN C., İŞBİLİR M.  
OR2017, International Conference on Operations Research – Annual Conference of the German Operations Research Society, 06 September 2016 - 08 September 2017
- **Location analysis of emergency vehicles using an approximate queueing model**  
AKDOĞAN M. A. , BAYINDIR Z. P. , İYİĞÜN C.  
19th European-Operational-Research-Societies Working Group on Transportation Meeting (EWGT), İstanbul, Turkey, 5 - 07 September 2016, vol.22, pp.430-439
- **Two-Stage Versus Single-Stage Inventory Models with or without Repair Ability**  
BAKAL İ. S. , Ozpamukcu S., BAYINDIR Z. P.  
International Annual Conference of the German-Operations-Research-Society (GOR), Hannover, Germany, 5 - 07 September 2012, pp.555-560
- **Semi-dynamic modeling of tactical level land combat**  
Ozdemirel N., Kandiller L., Vardar C., Bayindir Z.  
15th European Simulation Multiconference (ESM 2001), PRAGUE, Czech Republic, 6 - 09 June 2001, pp.195-202

## Citations

Total Citations (WOS):373

h-index (WOS):10