

## Asst. Prof. SEVAL ENE YALÇIN

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAG-8949-2021

ScopusID: 48461146800

Yoksis Researcher ID: 156683

### Education Information

Doctorate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Endüstri Mühendisliği (Dr), Turkey 2010 - 2015

Postgraduate, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Endüstri Mühendisliği (YI) (Tezli), Turkey 2007 - 2010

Undergraduate, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, Endüstri Mühendisliği Bölümü, Turkey 2003 - 2007

### Dissertations

Doctorate, Reverse Supply Chain Network Design in the Automotive Industry, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ, 2015

Postgraduate, Storage Assignment and Order Picking Optimization in the Automotive Industry, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ, 2010

### Research Areas

Multiobjective Optimization, Linear Programming, Global Optimization, Heuristic Methods, Integer and Mixed Integer Programming, Facility Location and Design, Modelling and Analysis of Production Systems , Service Systems Modeling and Analysis, Supply Chain and Logistics Management

### Academic Titles / Tasks

Assistant Professor, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ, 2021 - Continues  
Research Assistant, Bursa Uludağ University, MÜHENDİSLİK FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ, 2008 - 2021

### Courses

Graduation Project, Undergraduate, 2021 - 2022

Industrial Engineering Project, Undergraduate, 2022 - 2023

Industrial Engineering Seminar , Undergraduate, 2022 - 2023

Industrial Process Design, Undergraduate, 2021 - 2022  
Heuristic Algorithms, Postgraduate, 2022 - 2023  
Supply Chain Design, Undergraduate, 2017 - 2018  
Computer Integrated Manufacturing, Undergraduate, 2017 - 2018  
Sürdürülebilirlik ve Kaynak Verimliliği, Undergraduate, 2017 - 2018  
Tesis Planlaması, Undergraduate, 2017 - 2018

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

- I. **Grey modelling based forecasting system for return flow of end-of-life vehicles**  
ENE YALÇIN S., ÖZTÜRK N.  
TECHNOLOGICAL FORECASTING AND SOCIAL CHANGE, vol.115, pp.155-166, 2017 (SSCI)
- II. **A genetic algorithm for minimizing energy consumption in warehouses**  
ENE YALÇIN S., KÜÇÜKOĞLU İ., AKSOY A., ÖZTÜRK N.  
ENERGY, vol.114, pp.973-980, 2016 (SCI-Expanded)
- III. **A hybrid metaheuristic algorithm for the green vehicle routing problem with a heterogeneous fleet**  
ENE YALÇIN S., KÜÇÜKOĞLU İ., AKSOY A., ÖZTÜRK N.  
INTERNATIONAL JOURNAL OF VEHICLE DESIGN, vol.71, pp.75-102, 2016 (SCI-Expanded)
- IV. **Network modeling for reverse flows of end-of-life vehicles**  
ENE YALÇIN S., ÖZTÜRK N.  
WASTE MANAGEMENT, vol.38, pp.284-296, 2015 (SCI-Expanded)
- V. **A memory structure adapted simulated annealing algorithm for a green vehicle routing problem**  
KÜÇÜKOĞLU İ., ENE YALÇIN S., AKSOY A., ÖZTÜRK N.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.22, no.5, pp.3279-3297, 2015 (SCI-Expanded)
- VI. **Storage location assignment and order picking optimization in the automotive industry**  
ENE YALÇIN S., ÖZTÜRK N.  
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.60, pp.787-797, 2012 (SCI-Expanded)

## Articles Published in Other Journals

- I. **ÇELİK BORU İMALATINDA HAZIRLIK SÜRELERİNE YÖNELİK YALIN ÜRETİM VE SMED ÇALIŞMASI**  
ENE YALÇIN S., AKIN S., ELMAS B., EREN M., GÜNDÜZ T.  
Journal of Industrial Engineering, vol.31, no.1, pp.87-104, 2020 (Peer-Reviewed Journal)
- II. **MONTAJ HATTI PARÇA BESLEME SÜREÇLERİNİN PLANLANMASI İÇİN KURAL TABANLI SİSTEM TASARIMI**  
Ene Yalçın S., Henden B., Başaran İ., Pamuk B., Öztürk N.  
Uludağ University Journal of The Faculty of Engineering, vol.23, no.4, pp.71-82, 2018 (Peer-Reviewed Journal)
- III. **Elektrikli kamyonlar için açık uçlu rotalama optimizasyonu**  
AKSOY A., ENE YALÇIN S., KÜÇÜKOĞLU İ., ÖZTÜRK N.  
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.23, no.4, pp.1-10, 2018 (Peer-Reviewed Journal)
- IV. **Multi-objective green supply chain network optimization**  
Ene S., Öztürk N.  
Global Journal of Business, Economics and Management, vol.7, no.1, pp.15-24, 2017 (Peer-Reviewed Journal)
- V. **Managing return flow of end-of-life products for product recovery operations**  
Ene S., Öztürk N.  
Global Journal of Business, Economics and Management, vol.7, no.1, pp.169-177, 2017 (Peer-Reviewed Journal)
- VI. **Yeşil Tedarik Zinciri Yönetiminde Ağ Optimizasyonu Problemine Meta-Sezgisel Yaklaşım**  
Ene Yalçın S., Öztürk N.

CBU Journal of Science, vol.12, no.3, pp.449-457, 2016 (Peer-Reviewed Journal)

**VII. Open Loop Reverse Supply Chain Network Design**

Ene S., Öztürk N.

PROCEDIA SOCIAL AND BEHAVIORAL SCIENCES, vol.109, no.1, pp.1110-1115, 2014 (Peer-Reviewed Journal)

**VIII. Integrated Emission and Fuel Consumption Calculation Model for Green Supply Chain Management**

Aksoy A., Küçüköğlü İ., Ene S., Öztürk N.

PROCEDIA SOCIAL AND BEHAVIORAL SCIENCES, vol.109, no.1, pp.1106-1109, 2014 (Peer-Reviewed Journal)

**IX. A mathematical model for two dimensional loading problem in cross docking network design**

KÜÇÜKOĞLU İ., AKSOY A., ENE S., ÖZTÜRK N.

MATHEMATICAL AND COMPUTATIONAL APPLICATIONS, vol.18, no.3, pp.273-282, 2013 (Peer-Reviewed Journal)

**X. A Green Capacitated Vehicle Routing Problem with Fuel Consumption Optimization Model**

Küçüköğlü İ., Ene S., Aksoy A., Öztürk N.

International Journal of Computational Engineering Research, vol.3, no.7, pp.16-23, 2013 (Peer-Reviewed Journal)

## Books & Book Chapters

**I. A Two-Stage Model for Network Design of Closed-Loop Supply Chains Under Uncertain Environment**

ENE YALÇIN S., ÖZTÜRK N.

in: Theoretical Investigations and Applied Studies in Engineering, Özseven Turgut, Yaşar Ebubekir, Editor, EKİN Publishing House, Bursa, pp.231-248, 2019

## Refereed Congress / Symposium Publications in Proceedings

**I. An Overview of Artificial Intelligence Techniques in Supply Chain Management: AI-Driven Strategies for Risk Management**

JAMAL NASER L., ENE YALÇIN S.

International Conference on Engineering, Natural Sciences, and Technological Developments, Balıkesir, Turkey, 19 July 2024

**II. A Forecasting System for Carbon Dioxide Emissions**

ENE YALÇIN S.

3rd International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 20 - 23 July 2022, pp.504

**III. A Decision Support System for Supply Chain Coordination Problem**

CANLIOĞLU D., HAMZAÇELEBİOĞLU D., GÜNGÖRMEZ O., İNKAYA T., ENE YALÇIN S.

International Symposium on Intelligent Manufacturing and Service Systems, Sakarya, Turkey, 9 - 11 September 2019, pp.613-621

**IV. Otomotiv Endüstrisinde Yedek Parça Planlama Sistematiğinin Kurulmasına Yönelik Bir Uygulama**

Yeşilkütük N., Türk A., Çök H., ENE YALÇIN S., ORBAK A. Y.

Yöneylem Araştırması ve Endüstri Mühendisliği 38. Ulusal Kongresi, Eskişehir, Turkey, 26 - 29 June 2018, pp.88-89

**V. Lean Part Flow in Magnet Production Lines**

Akçay M. G., Arda S., Tekin Y., ENE YALÇIN S., GÜNDÜZ T.

Global Joint Conference on Industrial Engineering and Its Application Areas, Nevşehir, Turkey, 21 - 22 June 2018, pp.19

**VI. Elektrikli Kamyonların Rota Optimizasyonunda Kullanılacak Bir Matematiksel Model**

Aksoy A., Ene Yalçın S., Küçüköğlü İ., Öztürk N.

ULTZK 2018: 7. Ulusal Lojistik ve Tedarik Zinciri Kongresi, Bursa, Turkey, 3 - 05 May 2018, pp.1-6

**VII. Montaj Hatları İçin Parça Besleme Süreçlerinin Planlanması**

Ene Yalçın S., Henden B., Başaran İ., Pamuk B., Öztürk N.

7. Ulusal Lojistik ve Tedarik Zinciri Kongresi, Bursa, Turkey, 3 - 05 May 2018, pp.510-516

- VIII. **Otomotiv Endüstrisinde Montaj Hattı için Hat Besleme Yöntemlerini Belirleyen Bir Sistem Tasarımı**  
Henden B., Başaran İ., Pamuk B., Ene S., Öztürk N., Kabakçı B., Hekimoğlu Ç.  
37. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi, İstanbul, Turkey, 5 - 07 July 2017, pp.68
- IX. **Supplier Selection and Order Allocation in Reverse Logistics Systems**  
Ene S., Öztürk N.  
ISEAIA 2016, 4th International Symposium on Engineering, Artificial Intelligence and Applications, Girne, Cyprus (Kktc), 2 - 04 November 2016
- X. **A Heuristic Algorithm for Parallel Machine Scheduling Problem**  
ENE S., AKSOY A., Özsavaş G., Kayıran M., İlter Ö.  
The Fourth International Symposium on Engineering, Artificial Intelligence and Applications, Girne, Cyprus (Kktc), 2 - 04 November 2016, pp.37
- XI. **Forecasting for Electric Energy Demand of Turkey by Artificial Neural Networks**  
USTA Ö., ENE S., KÜÇÜKOĞLU İ., AKSOY A., ÖZTÜRK N.  
ISEAIA 2016: Fourth International Symposium on Engineering, Artificial Intelligence Applications, Girne, Cyprus (Kktc), 2 - 04 November 2016
- XII. **Network design for closed loop supply chains using multi objective optimization model**  
Ene S., Öztürk N.  
GJCIE 2016, Global Joint Conference on Industrial Engineering and Its Application Areas, İstanbul, Turkey, 14 - 15 July 2016
- XIII. **A Particle Swarm Optimization Algorithm for Integrated Forward Reverse Supply Chain Network Decisions**  
Ene S., Öztürk N.  
GJCIE 2016, Global Joint Conference on Industrial Engineering and Its Application Areas, İstanbul, Turkey, 14 - 15 July 2016
- XIV. **Managing return flow of end of life products for product recovery operations**  
Ene S., Öztürk N.  
WCBEM 2016, 5th World Conference on Business, Economics and Management, Antalya, Turkey, 12 - 14 May 2016
- XV. **Multi objective green supply chain network optimization**  
Ene S., Öztürk N.  
WCBEM 2016, 5th World Conference on Business, Economics and Management, Antalya, Turkey, 12 - 14 May 2016
- XVI. **A Genetic Algorithm Approach for Green Supply Chain Network Optimization**  
Ene S., Öztürk N.  
ISEAIA 2015, 3rd International Symposium on Engineering, Artificial Intelligence and Applications, Girne, Cyprus (Kktc), 4 - 06 November 2015
- XVII. **Reverse Supply Chain Network Design Using Particle Swarm Optimization Algorithm**  
Ene S., Öztürk N.  
ISEAIA 2015, 3rd International Symposium on Engineering, Artificial Intelligence and Applications, Girne, Cyprus (Kktc), 4 - 06 November 2015
- XVIII. **Sourcing Decision and Order Allocations with Fuzzy Demand**  
Aksoy A., Ene S., Küçükoğlu İ., Öztürk N.  
ISEAIA 2015: Third International Symposium on Engineering, Artificial Intelligence and Applications, Girne, Cyprus (Kktc), 4 - 06 November 2015, pp.31
- XIX. **A Multi Objective Optimization Model for Reverse Supply Chain Network Design**  
Ene S., Öztürk N.  
LM-SCM 2015, XIII. International Logistics and Supply Chain Congress, İzmir, Turkey, 22 - 23 October 2015
- XX. **Kapalı Döngü Tedarik Zincirinin Genetik Algoritma ile Modellenmesi**  
Ene S., Öztürk N.  
Yöneylem Araştırması ve Endüstri Mühendisliği 35. Ulusal Kongresi, Ankara, Turkey, 9 - 11 September 2015, pp.26
- XXI. **Particle Swarm Optimization for Modelling Collection Network of End-of-Life Products**  
Ene Yalçın S., Öztürk N.  
LM-SCM 2014, XII. International Logistics and Supply Chain Congress, İstanbul, Turkey, 30 - 31 October 2014

- XXII. **A Genetic Algorithm Using Priority Based Encoding For Product Recovery**  
Ene S., Öztürk N.  
IMSS'14-CIE'44 Joint International Symposium, İstanbul, Turkey, 14 - 16 October 2014, pp.270-280
- XXIII. **A Genetic Algorithm Using Priority Based Encoding for Product Recovery Network Design**  
Ene Yalçın S., Öztürk N.  
CIE'44 IMSS'14, 44th International Conference on Computers Industrial Engineering- 9th International Symposium on Intelligent Manufacturing and Service Systems, İstanbul, Turkey, 14 - 16 October 2014
- XXIV. **Time Series Forecasting with Grey Modelling**  
Ene Yalçın S., Öztürk N.  
International Congress in Honour of Professor Ravi P. Agarwal, Bursa, Turkey, 23 - 26 June 2014
- XXV. **Ürün Geri Kazanım İşlemlerinin Optimizasyonu**  
Ene S., Öztürk N.  
34. Ulusal Yöneylem Arastirmasi ve Endüstri Mühendisliği Kongresi, Bursa, Turkey, 25 - 27 June 2014, pp.3
- XXVI. **Heterojen Filolu Yeşil Araç Rotalama Optimizasyonu**  
Ene Yalçın S., Küçükoğlu İ., Aksoy A., Öztürk N.  
OTEKON 2014: 7. Otomotiv Teknolojileri Kongresi, Bursa, Turkey, 26 - 27 May 2014
- XXVII. **Ömrünü Tamamlamış Araçlar için Toplama Ağının Tasarımı**  
Ene S., Öztürk N.  
OTEKON'14, 7. Otomotiv Teknolojileri Kongresi, Bursa, Turkey, 26 - 27 May 2014, pp.1-6
- XXVIII. **Integrated emission and fuel consumption calculation model for green supply chain management**  
AKSOY A., KÜÇÜKOĞLU İ., ENE YALÇIN S., ÖZTÜRK N.  
2nd World Conference on Business, Economics and Management (BEM), Antalya, Turkey, 25 - 28 April 2013, vol.109, pp.1106-1109
- XXIX. **Open loop reverse supply chain network design**  
ENE YALÇIN S., ÖZTÜRK N.  
2nd World Conference on Business, Economics and Management (BEM), Antalya, Turkey, 25 - 28 April 2013, vol.109, pp.1110-1115
- XXX. **Yeşil Lojistik Prensiplerine Dayalı Araç Rotalama Optimizasyonu**  
Öztürk N., Aksoy A., Ene Yalçın S., Küçükoğlu İ.  
Uludağ Üniversitesi Ar-Ge Günleri, Bursa, Turkey, 12 - 14 November 2013
- XXXI. **Bütünleşik Satın Alma ve Sipariş Atama Optimizasyonu**  
Aksoy A., Ene Yalçın S., Küçükoğlu İ., Öztürk N.  
Uludağ Üniversitesi Ar-Ge Günleri, Bursa, Turkey, 12 - 14 November 2013
- XXXII. **A Tabu Search Algorthim for Green Capacitated Vehicle Routing Problem**  
Küçükoğlu İ., Ene Yalçın S., Aksoy A., Öztürk N.  
ISEAIA 2013: First International Symposium on Engineering, Artificial Inteligence Applications, Girne, Cyprus (Kktc), 6 - 08 November 2013
- XXXIII. **Green Vehicle Routing Problem with Time Windows**  
AKSOY A., ENE YALÇIN S., KÜÇÜKOĞLU İ., ÖZTÜRK N.  
26 th European Conference on Operational Research, ROMA, Italy, 1 - 04 July 2013
- XXXIV. **Closed-Loop Logistics Network Design**  
Ene Yalçın S., Öztürk N.  
EURO 2013 - 26th European Conference on Operational Research, Rome, Italy, 1 - 04 July 2013
- XXXV. **Cross Docking Network Design with Two Dimesional Loading Constraints**  
Küçükoğlu İ., Aksoy A., Ene Yalçın S., Öztürk N.  
International IIE Conference, İstanbul, Turkey, 26 - 28 June 2013
- XXXVI. **Tersine Lojistikte Çok Ürünlü Ağ Tasarımı**  
Ene S., Öztürk N.  
ULTZK 2013, II. Ulusal Lojistik ve Tedarik Zinciri Kongresi, Aksaray, Turkey, 16 - 18 May 2013, pp.631-638
- XXXVII. **Yeşil Lojistik Prensiplerine Dayalı Lojistik Faaliyetlerin Optimizasyonu İçin Karar Destek Sistemi Tasarımı**

Öztürk N., Aksoy A., Ene Yalçın S., Küçüköğlü İ.

Uludağ Üniversitesi Bilgilendirme ve AR-GE Günleri, Bursa, Turkey, 13 - 15 November 2012

**XXXVIII. Otomotiv Endüstrisinde Üretim Taleplerini Toplama Optimizasyonu**

Ene S., Öztürk N.

YA/EM'2010 Yöneylem Araştırması ve Endüstri Mühendisliği 30. Ulusal Kongresi, İstanbul, Turkey, 30 June - 02 July 2010, pp.335

**XXXIX. Otomotiv Endüstrisinde Depo Atama ve Üretim Taleplerini Toplama Optimizasyonu**

Ene S., Öztürk N., Demirci F.

OTEKON'2010 5. Otomotiv Teknolojileri Kongresi, Bursa, Turkey, 7 - 08 June 2010, pp.693-700

**XL. Storage assignment optimization for automotive assembly supply warehouses**

Ene Yalçın S., Öztürk N., Demirci F.

33rd FISITA World Automotive Congress, Budapest, Hungary, 30 May - 04 June 2010

**XLI. Depo İç Lojistik Hareketlerinin Optimizasyonu**

Ene S., Öztürk N.

YA/EM'2009 Yöneylem Araştırması ve Endüstri Mühendisliği 29. Ulusal Kongresi, Ankara, Turkey, 22 - 24 June 2009, pp.49

**XLII. Tersine lojistikte bir yapay zeka yaklaşımı**

Ene S., Aksoy A., Öztürk N.

ÜAS'2008 VIII. Ulusal Üretim Araştırmaları Sempozyumu, İstanbul, Turkey, 24 - 25 October 2008, pp.397-402

## Supported Projects

KÜÇÜKOĞLU İ., ENE YALÇIN S., AKSOY A., Project Supported by Higher Education Institutions, Çok kaynaklı satın alma stratejileri ve sipariş atama modeli, 2013 - 2016

AKSOY A., ENE YALÇIN S., KÜÇÜKOĞLU İ., Project Supported by Higher Education Institutions, Yeşil Lojistik Prensiplerine Dayalı Lojistik Faaliyetlerinin Optimizasyonu için Karar Destek Sistemi Tasarımı, 2012 - 2015

## Metrics

Publication: 61

Citation (WoS): 291

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