



SEMIH ÖNÜT
PROF.

Email : onut@yildiz.edu.tr

Address : Yıldız Teknik
Üniversitesi, Makine Fakültesi
Endüstri Müh.Böl., 34349
Besiktas, İstanbul

International Researcher IDs

ScholarID: iSIP8FYAAAAI

ORCID: 0000-0002-9503-
1314

Publons / Web Of Science
ResearcherID: AAB-5930-
2020
ScopusID: 13608838700

Yoksis Researcher ID: 174

Education

Doctorate 1993 - 1996	Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Industry Engineering, Turkey
Postgraduate 1991 - 1993	University Of Strathclyde, Faculty Of Engineering, Design, Manufacture And Engineering Management, United Kingdom
Undergraduate 1981 - 1984	Yildiz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey

Academic Titles / Tasks

Professor 2015 - Continues	Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Industry Engineering
Associate Professor 2009 - 2015	Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Industry Engineering
Assistant Professor 1997 - 2010	Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Industry Engineering

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Energy-efficient scheduling for a flexible job shop problem considering rework processes and new job arrival**
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2. **A MULTI-OBJECTIVE MODEL FOR TIME-COST-QUALITY-RISK TRADE-OFF PROBLEMS IN PROJECT MANAGEMENT**
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3. **Detection of Outliers and Extreme Events of Ground Level Particulate Matter Using DBSCAN Algorithm with Local Parameters**
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4. **An Integrated Methodology for Supplier Selection under the Presence of Vagueness: A Case in Banking Sector, Turkey**
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5. **A Strategic Planning Methodology for the Multimodal Transportation Systems: A Case Study from Turkey**
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JOURNAL OF APPLIED MATHEMATICS, 2014 (SCI-Expanded)
6. **A comparative analysis of meta-heuristic approaches for facility layout design problem: a case study for an elevator manufacturer**
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7. **An integration methodology based on fuzzy inference systems and neural approaches for multi-stage supply-chains**
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8. **A MULTI-OBJECTIVE ENERGY RESOURCE ALLOCATION MODEL FOR TURKISH MANUFACTURING INDUSTRY USING LINEAR PHYSICAL PROGRAMMING**
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9. **Selecting container port via a fuzzy ANP-based approach: A case study in the Marmara Region, Turkey**
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TRANSPORT POLICY, vol.18, pp.182-193, 2011 (SSCI)
10. **A two-stage stochastic and robust programming approach to strategic planning of a reverse supply network: The case of paper recycling**
Kara S., ÖNÜT S.
EXPERT SYSTEMS WITH APPLICATIONS, vol.37, no.9, pp.6129-6137, 2010 (SCI-Expanded)
11. **A stochastic optimization approach for paper recycling reverse logistics network design under uncertainty**
Kara S., ÖNÜT S.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.7, no.4, pp.717-730, 2010 (SCI-Expanded)
12. **A combined fuzzy MCDM approach for selecting shopping center site: An example from Istanbul,**

Turkey

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13. **A theoretical model design for ERP software selection process under the constraints of cost and quality: A fuzzy approach**

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14. **Selecting the suitable material handling equipment in the presence of vagueness**

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15. **A decision support system for demand forecasting with artificial neural networks and neuro-fuzzy models: A comparative analysis**

EFENDİGİL T., ÖNÜT S., Kahraman C.

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16. **A holonic approach based integration methodology for transportation and warehousing functions of the supply network**

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17. **Long term supplier selection using a combined fuzzy MCDM approach: A case study for a telecommunication company**

Önüt S., Kara S., Isik E.

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18. **An Aggregate Production Planning Strategy Selection Methodology based on Linear Physical Programming**

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INTERNATIONAL JOURNAL OF INDUSTRIAL ENGINEERING-THEORY APPLICATIONS AND PRACTICE, vol.16, no.2, pp.135-146, 2009 (SCI-Expanded)

19. **Analytic network process approach for locating undesirable facilities: An example from Istanbul, Turkey**

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JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.88, no.4, pp.970-983, 2008 (SCI-Expanded)

20. **A fuzzy analytic network process based approach to transportation-mode selection between Turkey and Germany: A case study**

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21. **Modeling and optimization of general cargo port operations through fuzzy minimal spanning tree and fuzzy dynamic programming approaches**

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22. **A hybrid fuzzy MCDM approach to machine tool selection**

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23. **Multiple criteria evaluation of current energy resources for Turkish manufacturing industry**

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24. **A particle swarm optimization algorithm for the multiple-level warehouse layout design problem**

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25. **A holistic approach for selecting a third-party reverse logistics provider in the presence of**

vagueness

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28. Analysis of energy use and efficiency in Turkish manufacturing sector SMEs
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2. A Supplier Selection Model For Project Portfolios
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3. Hastane Yeri Seçimine Bir Analitik Ağ Süreci Yaklaşımı
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6. Esnek Üretim Sistemlerinin Tasarımı İçin Gerekli Olan Veri Tabanlarının Oluşturulması ve Sistem Yazılımının Tasarımı
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8. İnsan Kaynakları Yönetiminin Çalışma Ortamındaki Kaliteye ve Verimliliğe Olan Etkisi
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Yıldız Teknik Üniversitesi Dergisi, vol.1, no.2, pp.25-34, 1998 (Peer-Reviewed Journal)
9. Bilgisayar Destekli Mühendislik Sistemlerinin Yapısal Analizi
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10. Using simulation for shop floor control
ÖNÜT S., GUNAY F. G., DEMİREL T., ERDEM H. I.
Yugoslav Journal of Operations Research, vol.4, no.2, pp.195-203, 1994 (Scopus)

11. **Designing of an artificial intelligence based simulation system**
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Advances in Modelling & Analysis C: Systems Analysis, Control & Design, vol.42, pp.53-63, 1994 (Scopus)

Books

1. **Kapasite ve Kısıt Yönetimi**
ÖNÜT S.
in: Üretim Yönetimi: Süreçlilik ve Tedarik Zinciri Yönetimi, Tuzkaya, U., Editor, Palme Yayın Dağıtım, Ankara, pp.297-324, 2017
2. **Application of Fuzzy Analytic Network Process and Fuzzy TOPSIS to the Undesirable Location Selection Problem**
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in: Web-based Green Products Life Cycle Management Systems: Reverse Supply Chain Utilization, H.-F. Wang, Editor, İğİ Global, New York, pp.208-231, 2009
3. **Customer Relationship Management in Banking Sector and A Model Design for Banking Performance Enhancement**
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in: Unifying Themes in Complex Systems IV, A.A. Minai and Y. Bar-Yam , Editor, Springer-Verlag , Berlin, pp.370-378, 2008

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1. **Sağlık Sektöründe Churn Analizi Uygulamaları İçin Bir Literatür Araştırması**
Gümüş İ., Aslan M. E., Önüt S.
43. Yöneylem Araştırması ve Endüstri Mühendisliği (YA/EM) Ulusal Kongresi', Trabzon, Turkey, 2 - 04 October 2024, pp.151
2. **Çok Amaçlı Esnek Atölye Tipi Çizelgeleme Problemleri İçin Sürdürülebilir Üretim**
Albayrak E., Önüt S.
43. Yöneylem Araştırması ve Endüstri Mühendisliği (YA/EM) Ulusal Kongresi', Trabzon, Turkey, 02 October 2024, pp.63
3. **Endüstriyel Atık Toplama Problemlerinin İncelenmesi**
Bakır M., Önüt S.
10th International Congress on Engineering, Architecture and Design, İstanbul, Turkey, 24 - 26 December 2022, pp.1760-1761
4. **BİR İMALAT FİRMASININ ÜRETİM DEPARTMANINDAKİ SÜREÇ İYİLEŞTİRME ÇALIŞMASI**
Akın M., Önüt S.
3rd International Congress on Engineering Sciences and Multidisciplinary Approaches, İstanbul, Turkey, 10 - 11 February 2022, vol.1, pp.659-667
5. **MARKET BASKET ANALYSIS FOR JOB REQUIREMENTS**
ASLAN M. E., ÖNÜT S., KOYUN YILMAZ Ş.
13th Balkan Conference on Operational Research, Belgrad, Serbia And Montenegro, 25 May 2018, pp.1
6. **EDUCATING INDUSTRIAL ENGINEERING STUDENTS TO MEET MARKET NEEDS: WHICH ELECTIVE COURSES TO OPEN?**
Aslan M. E., Önüt S., Koyun Yilmaz Ş.
13th Balkan Conference on Operational Research, Belgrade, Serbia, 25 May 2018, pp.1
7. **An Approach for Trade-off Problems in Project Management**
Şener AVŞAR M. M., ÖNÜT S.
7th International Conference on Business Administration, Çanakkale, Turkey, 03 May 2018, pp.10-15

8. **Prediction of Particulate Matter Concentrations: A Literature Review**
ASLAN M. E., ÖNÜT S.
The 6th Student Conference on Operational Research, Nottingham, United Kingdom, 06 April 2018, pp.1
9. **Two-echelon capacitated vehicle routing problem: A case study in a textile company**
Önüt S., Kamber M. R., Dumanli A.
Proceedings of the World Congress on Mechanical, Chemical, and Material Engineering, MCM 2015, Barcelona, Spain, 20 - 21 July 2015
10. **A heterogeneous fleet vehicle routing model for solving the LPG distribution problem: A case study**
Önüt S., Kamber M. R., Altay G.
2nd International Conference on Mathematical Modeling in Physical Sciences (IC-MSQUARE), Prague, Czech Republic, 1 - 05 September 2013, vol.490
11. **A Case Study In Vehicle Routing Problem For A Company In LPG Sector**
ÖNÜT S.
43rd Annual Conference of the Italian Operational Research Society, 01 September 2012, vol.1, pp.10
12. **Reverse logistics network design with unknown parameters**
Soner Kara S., Önüt S.
23rd European Conference on Operational Research, Bonn, Germany, 5 - 08 July 2009, pp.1-5
13. **Multi-echelon Logistics Network Design with Fuzzy Bi-level Programming**
Tuzkaya U. R., Önüt S.
23th European Conference on Operational Research, Bonn, Germany, 05-08 July, Bonn, Germany, 05 July 2009, pp.1-5
14. **Multi Objective Distribution Network Design: A Case Study for a Ceramics Manufacturer**
Tanyaş M., Tuzkaya U. R., Önüt S.
6th International Logistics and Supply Chain Congress, İstanbul, Turkey, 06-07 November, İstanbul, Turkey, 06 November 2008
15. **Performance Analysis of Hospital Pharmacies in Terms of Cost, Logistics and Functionality**
Tuzkaya U. R., Önüt S., Sevim M.
6th International Logistics and Supply Chain Congress, İstanbul, Turkey, 06-07 November, İstanbul, Turkey, 06 November 2008, pp.21-28
16. **Reverse Logistics Network design with Two stage Stochastic Programming A recycling network case study**
Soner Kara S., Önüt S.
International Workshop on Operations Research, Madrid, Spain, 1 - 04 September 2008
17. **Analitik Ağ Süreci Yardımıyla Alışveriş Merkezi Seçimi**
Önüt S., Tuzkaya U. R., Kalip A.
2. Ulusal Sistem Mühendisliği Kongresi, İstanbul, 6-8 Şubat, İstanbul, Turkey, 06 February 2008, pp.301-305
18. **Tedarik Zincirinde Talep Tahmini İçin Sinirsiz Bulanık Ağ Yaklaşımına Dayalı Bir Çözüm Yöntemi**
Efendigi T., Önüt S.
2. Ulusal Sistem Mühendisliği Kongresi, İstanbul, 6-8 Şubat, İstanbul, Turkey, 06 February 2008
19. **Stratejik Performans Değerlendirme İçin Bulanık Analitik Hiyerarşi Prosesi Ve Kurumsal Karne Metoduna Dayalı Bir Yaklaşım: Türkiye de Bir Boya Fabrikasında Uygulama**
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20. **Eczacılık Sektöründe Geri Dönen Ürünlerin Toplanmasına Yönelik Depo Yeri Seçimi: Bir AHP-ELECTRE Uygulaması**
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2. Ulusal Sistem Mühendisliği Kongresi, İstanbul, 6-8 Şubat, İstanbul, Turkey, 06 February 2008
21. **Bulanık ortamda çok kriterli depo yeri seçimi Bir AHP Bulanık TOPSIS uygulaması**
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23. **Multi Objective Optimization of a Production-Distribution Structure in a Fuzzy Environment**
Efendigil T., Önüt S.
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24. **A Structural Forecasting Approach to Returned Products for Remanufacturing Process via Neuro-Fuzzy Approach**
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25. **A Bi-Level Programming Model for Multi-Objective Transportation Network Design Problem**
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29. **Transportation Mode Selection Using ANP**
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34. **TOPSIS ve AHP Yardımıyla Tedarikçi Seçimi: Tekstil Sektöründe Bir Uygulama**
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- 40. Performance Measuring and Evaluating of Turkish Food&Beverage Companies Using Data Envelopment Analysis**
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- 41. A Fuzzy-AHP and GP Approach for Facility Location Selection**
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- 45. A Descriptive Analysis on The Implementation of Balanced Scorecard in An Automobile Firm**
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- 48. Comparison of Simulated Annealing and Optimal Algorithms for Facility Layout Problems and an Application**

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49. **A model design for selecting Advanced Manufacturing Technologies using Analytical Hierarchy Process**
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50. **Supplier selection and evaluation using Data Envelopment Analysis**
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51. **Determining the effects of total productive maintenance system on production system using a Kaizen approach implementation**
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53. **Küçük ve Orta Büyüklükteki İşletmelerde Faaliyete Dayalı Maliyetlendirme Yönteminin Uygulanabilirliğine Yönerek Kavramsal Bir Model Tasarımı**
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54. **An Efficient Appointment System Design for Outpatient Clinic Using Computer Simulation**
Erdem İ., Demirel T., Önüt S.
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72. **Bilgisayarla Bütünleşik Üretim Sistemine MRP Sisteminin Uygulanması ve Üretim Temin Süresinin**

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Academic and Administrative Experience

Bölüm Akademik Teşvik		
2019 - Continues	Değerlendirme Komisyonu Üyesi	Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Industry Engineering
2017 - 2020	Academic Performance D. Board Member	Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Industry Engineering
2011 - 2016	Vice Dean	Yıldız Teknik Üniversitesi, Faculty of Mechanical Engineering
2010 - 2015	Fakülte Yönetim Kurulu Üyesi	Yıldız Teknik Üniversitesi, Faculty of Mechanical Engineering
1997 - 2007	Deputy Head of Department	Yıldız Teknik Üniversitesi, Department of Industry Engineering, Industry Engineering

Supervised Theses

Önüt S., ENERJİ VERİMLİLİĞİ ODAKLI ESNEK ATÖLYE TİPİ ÇİZELGELEME PROBLEMİ, Doctorate, E.ALBAYRAK(Student), 2025

Önüt S., Gıda sektörü için talep tahmin analizi, Postgraduate, G.ÖZDEMİR(Student), 2024

Önüt S., Endüstriyel atık toplama operasyonlarında araç rotalama problemleri için bir sezgisel algoritma geliştirilmesi, Postgraduate, M.BAKIR(Student), 2023

Önüt S., Üretim Sektöründeki bir Firmada Değer Akış Haritalandırma ve Oranlarla İşgücü verimlilik Modeli ile Süreç İyileştirme Uygulaması, Postgraduate, M.AKIN(Student), 2022

Önüt S., Detection and Analysis of Outliers and Extreme Events of Ground Level Particulate Matter Time Series, Doctorate, M.EZGİ(Student), 2022

Önüt S., Proje Hızlandırma için Çok Amaçlı Bir Model Önerisi, Doctorate, M.Mine(Student), 2018

Önüt S., Proje Yönetiminde Tedarikçi Seçimi İçin Bir Model Önerisi, Doctorate, S.TOSUN(Student), 2014

ÖNÜT S., İmalat sektöründe Yapay Sinir Ağları Uygulaması, Postgraduate, E.SEVİNÇTEKİN(Student), 2014

ÖNÜT S., Portföy Yöneticilerinin Performanslarının Değerlendirilmesinde bulanık Çok Ölülü Karar Verme Tekniklerinin Kullanılması, Postgraduate, G.ÖZCAN(Student), 2011

ÖNÜT S., Gemi İnşa Sektöründe Faaliyet Gösteren Bir İşletmede PERT ve Bulanık PERT Uygulaması, Postgraduate, E.KOCABIYIK(Student), 2010

Önüt S., Tesis yeri seçimi probleminde AAS kullanılması ve karar sisteminin AHS ile doğrulanması, Postgraduate, H.GÜLTEN(Student), 2009

ÖNÜT S., Perakende Sektöründe Kategori Bazlı Talep tahmin ve Sipariş Sistemi Uygulaması, Postgraduate, D.GÖKÇEL(Student), 2009

Önüt S., Müşteri odaklı sistemler için yapay sinir ağı ve bulanık çıkarım tabanlı bir karar destek sistemi yaklaşımı, Doctorate, T.EFENDİĞİL(Student), 2008

Önüt S., Ters Lojistik Sistemlerinin Stokastik Modelleme ile Tasarımı ve Kağıt Sektöründeki uygulaması, Doctorate, S.Soner(Student), 2008

Önüt S., Liman Lojistik Hizmetlerinin Modellenmesi ve Optimizasyonu, Doctorate, C.ÖLÇER(Student), 2007

Önüt S., Çok Modlu Taşımacılık Sistemlerinin Stratejik Planlamasında Kritik Faktörlerin Modellenmesine Yönelik Bir Çözüm Yaklaşımı, Doctorate, U.TUZKAYA(Student), 2007

ÖNÜT S., Değer Akışı Haritalandırma ve CONWIP Sistemine Yönelik Bir Tasarım, Postgraduate, Ş.ÖZGÜRLER(Student), 2007

ÖNÜT S., Uçak Seçim Kriterlerinin Değerlendirilmesinde AHP ve Bulanık AHP Uygulaması, Postgraduate, S.YILMAZ(Student), 2006

ÖNÜT S., Sıralı Akiş Tipi Çizelgeleme Problemlerinde Genetik Algoritma Uygulaması, Postgraduate, T.KÖREZ(Student), 2005

ÖNÜT S., Antalya Yöresinde Bulunan Otellerin Etkinliğinin Analitik Hiyerarşi Prosesi ve Veri Zarflama Analizi Teknikleri Kullanılarak Ölçümü, Postgraduate, S.SONER(Student), 2004

Önüt S., Kurumsal kaynak planlaması yazılım paketlerini kullanan işletmelerin memnuniyetlerini ölçmeye yönelik bir model tasarımı, Postgraduate, T.FIRDOLAŞ(Student), 2003

ÖNÜT S., Toplu Üretim Planlaması ve Bakım Faaliyet Kararlarının Entegrasyonuna Yönelik Bir Model Tasarımı ve Uygulaması, Postgraduate, S.TAŞKIN(Student), 2003

Önüt S., Tedarik zincirlerinin yeniden yapılandırılması ve perakende sektöründe uygulama, Postgraduate, A.FATİH(Student), 2002

ÖNÜT S., Bütünleşik Üretim Sistemlerinde Bakım Yönetim Sistemlerinin İncelenmesi ve Üretim Sektöründe Bir İşletmeye Uygulanması, Postgraduate, H.ERDOĞAN(Student), 2002

Önüt S., Süreçlerle yönetimin irdelenmesi ve hizmet sektöründe uygulama, Postgraduate, B.ANIL(Student), 2002

ÖNÜT S., Süreçlerle Yönetimin İrdelenmesi ve Hizmet Sektöründe Bir Uygulama, Postgraduate, B.Anıl(Student), 2002

ÖNÜT S., Tedarik Zincirlerilerinin Yeniden Yapılandırılması ve Perakende Sektöründe Uygulama, Postgraduate, F.BAYRAKTAR(Student), 2002

Önüt S., Endüstriyel işletmelerde işletme kaynakları planlaması (ERP) sisteminin tasarımı, analiz ve uygulanması, Postgraduate, E.KUBAL(Student), 2001

ÖNÜT S., Proje Yönetimi ve Planlaması, Postgraduate, Y.DENİZ(Student), 2000

ÖNÜT S., Lojistik Yönetiminde Finansal Analiz ve Planlama, Postgraduate, E.BOZDEMİR(Student), 2000

Önüt S., Toplam kalite yönetimi ve bankacılık sektöründe uygulaması, Postgraduate, O.OĞUR(Student), 2000

Önüt S., Lojistik yönetiminde dağıtım kanalları yoluyla sağlanacak müşteri memnuniyetinin, işletmenin pazar payına etkisi ve ısitma sektöründeki bir uygulaması, Postgraduate, T.MENEMENCİOĞLU(Student), 1999

Peer Reviews in Scientific Publications

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- Energy, Energy use in the Greek manufacturing sector: A methodological framework based on physical indicators with Aggregation and Decomposition Analysis, SCI Journal, February 2008
- Computers & Industrial Engineering, Designing capacitated collection networks for reverse logistics, SCI Journal, February 2008
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Scientific Project Refereeing

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TUBITAK Project, 1000 - Üniversitelerin Araştırma ve Geliştirme Potansiyelinin Arttırılmasına Yönelik Destek Programı, November 2012
Project Supported by Other Official Institutions, April 2012

Metrics

Publication: 116
Citation (WoS): 2239
Citation (Scopus): 2793
H-Index (WoS): 19
H-Index (Scopus): 20

Research Areas

Modelling and Analysis of Production Systems, Decision Support Systems, Supply Chain and Logistics Management