MEHMET ALİ ILGIN
ASSOC. PROF.



Email : mehmetali.ilgin@cbu.edu.tr
Office Phone : +90 236 201 2210
International Researcher IDs
ScholarID: wq82SNgAAAAJ
ORCID: 0000-0003-1765-2470
Publons / Web Of Science ResearcherID: A-9766-2008
ScopusID: 20433690700
Yoksis Researcher ID: 20988

Education

Doctorate 2007 - 2011	Northeastern University, College of Engineering, Mechanical and Industrial Engineering, United States Of America
Postgraduate 2003 - 2006	Dokuz Eylul University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği Ana Bilim Dalı, Turkey
Undergraduate 1998 - 2003	Dokuz Eylul University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, Turkey

Foreign Languages

English

Dissertations

Doctorate, Kanban-Controlled Disassembly Line with Sensor Embedded Products, Northeastern University, 2011
Postgraduate, Joint optimization of spare parts inventory and maintenance policies using hybrid genetic algorithms, Dokuz Eylul University, Fen Bilimleri Enstitüsü, 2006

Academic Positions

Associate Professor 2019 - Present	Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ
Assistant Professor 2012 - 2019	Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ
Research Assistant 2003 - 2012	Dokuz Eylul University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü

Funded Projects

1. ILGIN M. A., ŞENOL M. E., Project Supported by Higher Education Institutions, BAP Infrastructure, Sıra-Bağımlı Hazırlık Sürelerini Dikkate Alan Demontaj Hattı Dengeleme Problemi için Pekiştirmeli Öğrenme Tabanlı Adaptif Hiper-Sezgisel Bir Yaklaşım Geliştirilmesi, 2026 - Present
2. Ilgın M. A., Kalaycı C. B., Güngör A., Özceylan E., TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Sürdürülebilir Kısmi Demontaj Hattı Dengeleme Problemi Için Yeni Modeller Ve Çözüm Yaklaşımları, 2024 - 2027
3. UZUN ARAZ Ö., ARI D., ILGIN M. A., TAŞOĞLU G., Project Supported by Higher Education Institutions, BAP Infrastructure, Akıllı Bir Malzeme Elleçleme Sisteminin Çevreye Duyarlı ve Gerçek Zamanlı Tasarımı, 2022 - 2025
4. Ilgın M. A., Akpınar M. E., Project Supported by Other Private Institutions, Otomotiv Yan Sanayinde Faaliyet Gösteren Bir Firmada Üretim İstasyonlarının Ergonomik Uygunluğunun Arttırılması, 2018 - 2018
5. ILGIN M. A., AKPINAR M. E., Project Supported by Other Private Institutions, Otomotiv Yan Sanayinde Faaliyet Gösteren Bir Firmada ÜretimOperasyonlarının 5S Tekniği ile İyileştirilmesi, 2017 - 2017
6. ILGIN M. A., AKPINAR M. E., Project Supported by Other Private Institutions, Krom Kaplama Sektöründe Faaliyet Gösteren Bir Firmada Düşük Hacimli Üretim Faaliyetleri için Kalite Kontrol Sisteminin Geliştirilmesi, 2017 - 2017
7. Ilgın M. A., TUBITAK Project, 1505 - University-Industry Cooperation Support Program, Denetim Kontrol Yönetimi ve Otonom Bakım Aracı, 2014 - 2014

Scholarships

YÖK YURTDIŞI DOKTORA BURSU, YOK, 2006 - 2010

Articles

1. **An Integrated Fuzzy Approach for Alternative-Fuel Bus Selection in Sustainable Public Transportation**
   Danisman E., ILGIN M. A.
   EMJ - Engineering Management Journal, 2026 (SCI-Expanded, SSCI, Scopus)
2. **Evaluating The Digital Transformation Processes of Businesses with Multi-criteria Decision-Making Methods**
   Akpınar H., Nişancı Z. N., Ilgın M. A.
   Yönetim ve Ekonomi: Celal Bayar Üniversitesi İktisadi ve İdari Bilimler Fakültesi Dergisi, vol.31, no.4, pp.789-803, 2024 (TRDizin)
3. **Talebe Dayalı Malzeme İhtiyaç Planlaması: Karşılaştırmalı Analiz ve Parametre Optimizasyonu**
   Uzun Araz Ö., Ilgın M. A., Eski Ö., Araz C., Seymen Güzel A., Dalyan R.
   Endüstri Mühendisliği, vol.35, no.2, pp.167-188, 2024 (TRDizin)
4. **Selection of Genetic Algorithm Parameters for Optimization of Storm-Sewer Networks Using Taguchi Method**
   ILGIN M. A., ÇETİN T., YURDUSEV M. A.
   Karaelmas Fen ve Mühendislik Dergisi, vol.14, no.1, pp.1-10, 2024 (TRDizin)
5. **Advances in partial disassembly line balancing: A state-of-the-art review**
   Güler E., Kalayci C. B., Ilgın M. A., Özceylan E., Güngör A.
   Computers and Industrial Engineering, vol.188, 2024 (SCI-Expanded, Scopus)
6. **A simulation-based genetic algorithm approach for the simultaneous consideration of reverse logistics network design and disassembly line balancing with sequencing**
   Taşoğlu G., Ilgın M. A.
   Computers and Industrial Engineering, vol.187, 2024 (SCI-Expanded, Scopus)
7. **Fuzzy demand-driven material requirements planning: a comprehensive analysis of fuzzy logic implementation in DDMRP**
   UZUN ARAZ Ö., ILGIN M. A., ESKİ Ö., Araz C.

International Journal of Production Research, vol.62, no.21, pp.7793-7811, 2024 (SCI-Expanded, Scopus)

8. **A Clustering-based Approach for Maintenance Prioritization of Medical Devices in a New Hospital**
   Güçdemir H., Ilgın M. A.
   Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.28, no.3, pp.993-1001, 2023 (TRDizin)
9. **A part grouping-based approach for disassembly sequencing**
   Güçdemir H., Ilgin M. A.
   Journal of Engineering Research (Kuwait), vol.11, no.1, 2023 (SCI-Expanded, Scopus)
10. **Mixed integer programming approaches to partial disassembly line balancing and sequencing problem**
    Edis E. B., Sancar Edis R., Ilgin M. A.
    COMPUTERS & OPERATIONS RESEARCH, vol.138, 2022 (SCI-Expanded, Scopus)
11. **Integrating Linear Physical Programming and Fuzzy Programming for the Management of Third Party Reverse Logistics Providers**
    Ilgin M. A.
    Journal of Environmental Informatics, vol.39, no.1, pp.11-21, 2022 (SCI-Expanded, Scopus)
12. **Location Selection for a Covid-19 Field Hospital Using Fuzzy Choquet Integral Method**
    AKPINAR M. E., ILGIN M. A.
    Gümüşhane Üniversitesi Sosyal Bilimler Enstitüsü Elektronik Dergisi, vol.12, no.3, pp.1095-1109, 2021 (TRDizin)
13. **Disassembly Line Balancing by Using Simulation Optimization**
    AKPINAR M. E., ILGIN M. A., AKTAŞ H.
    Alphanumeric Journal, vol.9, pp.63-84, 2021 (TRDizin)
14. **Türk İmalat Sanayinin Endüstri 4.0'a Geçiş Sürecini Olumsuz Etkileyen Faktörlerin Kalite Evi ve Çok Kriterli Karar Verme Teknikleri ile Analizi**
    ILGIN M. A., URKAN B., KURTUL E.
    Avrupa Bilim ve Teknoloji Dergisi, vol.0, no.21, pp.591-599, 2021 (TRDizin)
15. **Yenilenebilir Enerji Kaynaklarının Türkiye'de Yaygın Kullanımını Engelleyen Faktörlerin Çok Kriterli Karar Verme Teknikleri ve Kalite Evi ile Analiz Edilmesi**
    ILGIN M. A., ALKAN E.
    Uluslararası Mühendislik Araştırma ve Geliştirme Dergisi, vol.12, no.1, pp.1-12, 2020 (TRDizin)
16. **Sewing Machine Selection Using Linear Physical Programming**
    Ilgın M. A.
    Tekstil ve Konfeksiyon, vol.29, no.4, pp.300-304, 2020 (SCI-Expanded, Scopus)
17. **Disassembly line balancing with sequencing decisions: A mixed integer linear programming model and extensions**
    Edis E. B., Ilgin M. A., Edis R.
    JOURNAL OF CLEANER PRODUCTION, vol.238, 2019 (SCI-Expanded, Scopus)
18. **Aircraft Selection Using Linear Physical Programming**
    ILGIN M. A.
    Havacılık ve Uzay Teknolojileri Dergisi, vol.12, no.2, pp.121-128, 2019 (TRDizin)
19. **A DEMATEL-Based Disassembly Line Balancing Heuristic**
    Ilgin M. A.
    Journal of Manufacturing Science and Engineering, Transactions of the ASME, vol.141, no.2, 2019 (SCI-Expanded, Scopus)
20. **A spare parts criticality evaluation method based on fuzzy ahp and taguchi loss functions Metoda oceny krytyczności części zapasowych oparta o rozmyty proces hierarchii analitycznej ahp i funkcję strat taguchi**
    Ilgın M. A.
    Eksploatacja i Niezawodnosc, vol.21, no.1, pp.145-152, 2019 (SCI-Expanded, Scopus)
21. **A green supplier evaluation system based on a new multi-criteria sorting method: VIKORSORT**
    Demir L., Akpınar M. E., Araz C., Ilgın M. A.
    Expert Systems with Applications, vol.114, pp.479-487, 2018 (SCI-Expanded, Scopus)

22. **Evaluation of Maintenance Policies Using Taguchi Loss Functions and Analytical Hierarchy Process**
ILGIN M. A., Hasanoğlu S.
Avrupa Bilim ve Teknoloji Dergisi, vol.0, no.14, pp.198-203, 2018 (TRDizin)
23. **Bir Elektronik Firmasının Montaj Hatlarının Ergonomik Analizi**
ALKAN E., ILGIN M. A.
ENGINEERING SCIENCES, vol.7, no.1, pp.149-158, 2018 (TRDizin)
24. **An integrated methodology for the used product selection problem faced by third-party reverse logistics providers**
Ilgin M. A.
International Journal of Sustainable Engineering, vol.10, no.6, pp.399-410, 2017 (Scopus)
25. **Disassembly line balancing using linear physical programming**
Ilgin M. A., Akçay H., Araz C.
International Journal of Production Research, vol.55, no.20, pp.6108-6119, 2017 (SCI-Expanded, Scopus)
26. **Integrating Linear Physical Programming and Fuzzy Logic for Robot Selection**
ILGIN M. A.
International Journal of Robotics Applications and Technologies, vol.5, no.2, pp.1-17, 2017 (Peer-Reviewed Journal)
27. **Simultaneous Determination of Disassembly Sequence and Disassembly-to-Order Decisions Using Simulation Optimization**
Ilgin M. A., Taşoğlu G.
Journal of Manufacturing Science and Engineering, Transactions of the ASME, vol.138, no.10, 2016 (SCI-Expanded, Scopus)
28. **İstatistiksel Süreç Kontrolü Prensiplerini Kullanarak Bir Kestirimci Bakım Bilgi Sisteminin Geliştirilmesi**
ILGIN M. A., SÖYLER D., SÖZEN K.
INTERNATIONAL JOURNAL OF INFORMATICS TECHNOLOGIES, vol.9, no.2, pp.55-61, 2016 (TRDizin)
29. **Personel seçim problemi için doğrusal fiziki programlama yaklaşımı**
ILGIN M. A., DEĞİRMENCİ E., DEMİRTEPE S.
İstanbul Ticaret Üniversitesi Fen Bilimleri Dergisi, vol.14, no.28, pp.15-28, 2015 (Peer-Reviewed Journal)
30. **Use of MCDM techniques in environmentally conscious manufacturing and product recovery: State of the art**
Ilgin M. A., Gupta S. M., Battaïa O.
Journal of Manufacturing Systems, vol.37, pp.746-758, 2015 (SCI-Expanded, Scopus)
31. **An approach to quantify the financial benefit of embedding sensors into products for end-of-life management: A case study**
Ilgin M. A., Ondemir O., Gupta S. M.
Production Planning and Control, vol.25, no.1, pp.26-43, 2014 (SCI-Expanded, Scopus)
32. **Green Supply Chain Management: Product Life Cycle Approach**
Ilgın M. A.
JOURNAL OF CLEANER PRODUCTION, vol.56, pp.199, 2013 (SCI-Expanded, Scopus)
33. **Optimal end-of-life management in closed-loop supply chains using RFID and sensors**
Ondemir O., Ilgin M. A., Gupta S. M.
IEEE Transactions on Industrial Informatics, vol.8, no.3, pp.719-728, 2012 (SCI-Expanded, Scopus)
34. **Physical programming: A review of the state of the art**
Ilgin M. A., Gupta S. M.
Studies in Informatics and Control, vol.21, no.4, pp.359-366, 2012 (SCI-Expanded, Scopus)
35. **Coping with disassembly yield uncertainty in remanufacturing using sensor embedded products**
Ilgin M. A., Gupta S. M., Nakashima K.
Journal of Remanufacturing, vol.1, no.1, 2011 (Scopus)
36. **The disassembly line: balancing and modeling, by S.M. McGovern and S.M. Gupta**
Ilgın M. A.

PRODUCTION PLANNING AND CONTROL, vol.22, no.7, pp.723-724, 2011 (SCI-Expanded, Scopus)

37. **Recovery of sensor embedded washing machines using a multi-kanban controlled disassembly line**
Ilgin M. A., Gupta S. M.
Robotics and Computer-Integrated Manufacturing, vol.27, no.2, pp.318-334, 2011 (SCI-Expanded, Scopus)
38. **Evaluating the impact of sensor-embedded products on the performance of an air conditioner disassembly line**
Ilgin M. A., Gupta S. M.
International Journal of Advanced Manufacturing Technology, vol.53, no.9-12, pp.1199-1216, 2011 (SCI-Expanded, Scopus)
39. **Performance improvement potential of sensor embedded products in environmental supply chains**
Ilgin M. A., Gupta S. M.
Resources, Conservation and Recycling, vol.55, no.6, pp.580-592, 2011 (SCI-Expanded, Scopus)
40. **Comparison of economic benefits of sensor embedded products and conventional products in a multi-product disassembly line**
Ilgin M. A., Gupta S. M.
Computers and Industrial Engineering, vol.59, no.4, pp.748-763, 2010 (SCI-Expanded, Scopus)
41. **Environment conscious manufacturing edited by S.M. Gupta and A.J.D. Lambert**
Ilgın M. A.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.48, no.14, pp.4325-4326, 2010 (SCI-Expanded, Scopus)
42. **Environmentally conscious manufacturing and product recovery (ECMPRO): A review of the state of the art**
Ilgin M. A., Gupta S. M.
Journal of Environmental Management, vol.91, no.3, pp.563-591, 2010 (SCI-Expanded, Scopus)
43. **Joint optimization of spare parts inventory and maintenance policies using genetic algorithms**
Ilgin M. A., Tunali S.
International Journal of Advanced Manufacturing Technology, vol.34, no.5-6, pp.594-604, 2007 (SCI-Expanded, Scopus)

Books

1. **Maintenance Contractor Evaluation Using Intuitionistic Fuzzy Multi Criteria Decision Making Techniques**
Ilgın M. A.
in: Optimization and Strategic Decision Models in Industrial Engineering, EROĞLU YUNUS, Editor, Vizetek Yayıncılık, Ankara, pp.170-192, 2026
2. **DEMATEL-Based Analysis of the Factors Hindering the Effective Use of Industry 4.0 Technologies in Reverse Logistics**
Ilgın M. A.
in: Sustainable Production and Logistics: Modeling and Analysis, Ozceylan Eren,Gupta Surendra M., Editor, Crc Press-Taylor & Francis Group, Florida, pp.197-209, 2021
3. **An Integrated Design for Remanufacturing Approach**
Ilgın M. A.
in: Responsible Manufacturing: Issues Pertaining to Sustainability, Alqahtani Ammar Y.,Kongar Elif,Pochampally Kishore,Gupta Surendra M., Editor, Crc Press-Taylor & Francis Group, Florida, pp.27-51, 2019
4. **Multiple Criteria Decision Making Applications in Environmentally Conscious Manufacturing and Product Recovery**
Gupta S., Ilgın M. A.
Crc Press-Taylor & Francis Group, Florida, 2018
5. **Reverse Logistics**

Ilgın M. A., Gupta S.
in: Reverse Supply Chains Issues and Analysis, Surendra M. Gupta, Editor, Crc Press-Taylor & Francis Group, Florida, pp.1-60, 2013

6. **Remanufacturing Modeling and Analysis**
   Ilgın M. A., Gupta S.
   Crc Press-Taylor & Francis Group, Florida, 2012

Papers Presented at Peer-Reviewed Scientific Conferences

1. **Kısmi Demontaj Hattı Dengeleme Problemi için Çok Amaçlı Evrimsel Optimizasyon Yaklaşımı**
   Güler E., Kalaycı C. B., Ilgın M. A.
   45. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi, İstanbul, Turkey, 29 June - 01 July 2026, pp.125, (Summary Text)
2. **Elektronik Ürünlerin Yaşam Sonu Seçeneklerinin Benzetim Tabanlı Bir Yaklaşım ile Değerlendirilmesi**
   Taşoğlu G., Ilgın M. A.
   6. Ulusal Üniversite-Sanayi İşbirliği, Ar-Ge ve İnovasyon Kongresi, Manisa, Turkey, 17 - 18 December 2024, pp.107, (Summary Text)
3. **Bir Satış Firmasında Envanter Yönetiminin Talebe Dayalı Malzeme İhtiyaç Planlama Yaklaşımı ile İyileştirilmesi**
   Uzun Araz Ö., Ilgın M. A., Eski Ö., Araz C., Seymen A.
   12.Ulusal Lojistik ve Tedarik Zinciri Kongresi, Mersin, Turkey, 16 - 17 November 2023, pp.30-31, (Summary Text)
4. **Bir Depolama Sisteminde Sipariş Toplama Sürecinin Simülasyon ile Analizi**
   Uzun Araz Ö., Arı D., Taşoğlu G., Ilgın M. A.
   5. Ulusal Üniversite-Sanayi İşbirliği, Ar-Ge ve İnovasyon Kongresi, Manisa, Turkey, 13 - 14 December 2023, pp.61, (Summary Text)
5. **Evaluation of Third-party Reverse Logistics Providers Using Fuzzy Axiomatic Design**
   Ilgın M. A.
   12th International Conference on Industrial Engineering and Operations Management, İstanbul, Turkey, 7 - 10 March 2022, pp.320-324, (Full Text)
6. **A Metaheuristic Based Disassembly Planning Model for an Electrical Device**
   Akpınar M. E., Ilgın M. A., Aktaş H.
   International Marmara Sciences Congress (Spring) 2020, Kocaeli, Turkey, 19 - 20 June 2020, pp.84, (Summary Text)
7. **Evaluation of the Suppliers of an Automotive Company Using Analytic Hierarchy Process and Promethee**
   Durak R., Ilgın M. A.
   17th International Logistics and Supply Chain Congress, İstanbul, Turkey, 17 - 18 October 2019, pp.217-221, (Full Text)
8. **Hata Türü ve Etkileri Analizi ile Çok Kriterli Karar Verme Yöntemlerinin Risk Analizi için Entegre Edilmesi**
   Ilgın M. A., Akpınar M. E.
   17. Uluslararası Katılımlı İşletmecilik Kongresi, İzmir, Turkey, 26 - 28 April 2018, pp.1848-1851, (Full Text)
9. **Multi-Criteria Sorting of Third-Party Reverse Logistics Providers**
   Ilgın M. A., Akpınar M. E.
   16th International Logistics and Supply Chain Congress, Denizli, Turkey, 18 - 20 October 2018, pp.38-41, (Full Text)
10. **Evaluation of Customers of a Company Using Multi Criteria Decision Making**
    Ilgın M. A., Akpınar M. E., Bulut S.
    International Conference on Applied Mathematics in Engineering, Balıkesir, Turkey, 27 - 29 June 2018, pp.98, (Summary Text)

11. **Implementation of 5S Systematic in a Hard Chrome Plating Company**
Akpınar M. E., Ilgın M. A., Bulut S.
International Conference on Applied Mathematics in Engineering, Balıkesir, Turkey, 27 - 29 June 2018, pp.99, (Summary Text)
12. **Evaluation of Product Recovery Facilities Using Multi Criteria Decision Making**
Akpınar M. E., Ilgın M. A.
International Conference on Applied Mathematics in Engineering, Balıkesir, Turkey, 27 - 29 June 2018, pp.97, (Summary Text)
13. **A Multi-Criteria Decision Making Methodology for After-Sale Spare Parts Inventory Classification**
Akpınar M. E., Ilgın M. A.
International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 - 12 May 2017, pp.48, (Summary Text)
14. **Development of short run quality control charts for a hard-chrome plating company**
Ilgın M. A., Akpınar M. E.
International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 - 12 May 2017, pp.113, (Summary Text)
15. **Bir Firmada Toplam Verimli Bakım Faaliyetlerini Olumsuz Yönde Etkileyen Faktörlerin DEMATEL, AAS ve Kalite Evi ile Analizi**
Kılınççı O., Ilgın M. A.
Uluslararası Katılımlı 16. Üretim Araştırmaları Sempozyumu, İstanbul, Turkey, 12 - 14 October 2016, pp.777-782, (Full Text)
16. **Elektrik Panoları Üreten Global Bir Firmada Montaj Hatlarının Ergonomik Değerlendirmesi**
Alkan E., Ilgın M. A.
22. Ulusal Ergonomi Kongresi, Denizli, Turkey, 6 - 08 October 2016, pp.26-27, (Summary Text)
17. **A Sustainability evaluation system based on a new multicriteria sorting method VikorSort**
ARAZ C., AKPINAR M. E., DEMİR L., ILGIN M. A.
20th Conference of the Environmental and Sustainability Management Accounting Network (EMAN), Lüneburg, Germany, 22 - 23 September 2016, pp.30-32, (Full Text)
18. **Elektronik Ticaret Sitelerinin Başarısına Etki Eden Faktörlerin Çok Kriterli Karar Verme Yöntemleri Ve Kalite Evi İle Analizi**
ÇİT B., ILGIN M. A., YILDIRIM S.
Yöneylem Araştırması ve Endüstri Mühendisliği (YAEM) 36. Ulusal Kongresi, İzmir, Turkey, 13 - 15 July 2016, pp.186, (Summary Text)
19. **Çevresel Faktörleri Dikkate Alan Vikor Tabanlı Bir Tedarikçi Sınıflandırma Yöntemi**
AKPINAR M. E., DEMİR L., ILGIN M. A., ARAZ C.
Yöneylem Araştırması ve Endüstri Mühendisliği (YAEM) 36. Ulusal Kongresi, İzmir, Turkey, 13 - 15 July 2016, pp.187, (Summary Text)
20. **Bulanık Hedef Programlama İle Demontaj Hattı Dengeleme**
ILGIN M. A., AKÇAY H., ARAZ C.
Yöneylem Araştırması ve Endüstri Mühendisliği (YAEM) 35. Ulusal Kongresi, Ankara, Turkey, 9 - 11 September 2015, pp.119, (Summary Text)
21. **Bir Toz Boya Fabrikasının Verimliliğinin Temotoka Analizi Kullanılarak İyileştirilmesi**
HASANOĞLU S., ILGIN M. A.
14. Üretim Araştırmaları Sempozyumu, İstanbul, Turkey, 3 - 05 September 2014, pp.135-142, (Full Text)
22. **Integrating multi criteria analysis and clustering techniques for the segmentation of after-sale spare part inventory**
Güçdemir H., Ilgin M. A.
Joint International Symposium on "The Social Impacts of Developments in Information, Manufacturing and Service Systems" 44th International Conference on Computers and Industrial Engineering, CIE 2014 and 9th International Symposium on Intelligent Manufacturing and Service Systems, IMSS 2014, İstanbul, Turkey, 14 - 16 October 2014, pp.30-39, (Full Text)

23. **Use of sensor embedded products for end of life processing**
Ilgin M. A., Gupta S. M.
2010 43rd Winter Simulation Conference, WSC'10, Baltimore, MD, United States Of America, 5 - 08 December 2010, pp.1584-1591, (Full Text)
24. **Design of Experiments to Evaluate the Impact of Sensor Embedded Products on EOL Processing**
ILGIN M. A., GUPTA S., NAKASHIMA K.
Proceedings of the Ninth International Conference on EcoBalance, Tokyo, Japan, 9 - 12 November 2010, pp.1-4, (Full Text)
25. **An Evaluation of the Effect of Sensor Embedded Products in Product Disassembly with Precedence Relationships**
Ilgın M. A., Gupta S.
Proceedings of the 2010 Northeast Decision Sciences Institute Conference, Virginia, United States Of America, 26 - 28 March 2010, pp.409-414, (Full Text)
26. **Disassembly of Sensor Embedded Products with Component Discriminating Demand**
Ilgın M. A., Gupta S.
Proceedings of the 2010 Northeast Decision Sciences Institute Conference, Virginia, United States Of America, 26 - 28 March 2010, pp.427-432, (Full Text)
27. **Analysis of a Kanban Controlled Disassembly Line with Sensor Embedded Products**
ILGIN M. A., GUPTA S.
Proceedings of the 2009 Northeast Decision Sciences Institute Conference, Uncasville, United States Of America, 1 - 03 April 2009, pp.555-560, (Full Text)
28. **The Effect of Disassembly Process on Spare Parts Inventory Management in Post Product Life Cycle**
ILGIN M. A., GUPTA S.
Proceedings of the 2009 Northeast Decision Sciences Institute Conference, Uncasville, United States Of America, 1 - 03 April 2009, pp.561-566, (Full Text)
29. **Joint optimization of transportation and spare parts inventory policies in a reverse logistics network using OptQuest**
Ilgin M. A., Gupta S. M.
2008 ASME International Mechanical Engineering Congress and Exposition, IMECE 2008, Boston, MA, United States Of America, 31 October - 06 November 2008, vol.8, pp.877-885, (Full Text)
30. **Using Simulation Optimization for Parts Recovery and Spare Parts Inventory Management in Post Product Life Cycle**
ILGIN M. A., GUPTA S.
Proceedings of the 2008 Northeast Decision Sciences Institute Conference, New York, United States Of America, 28 - 30 March 2008, pp.543-545, (Full Text)
31. **Optimization of Spare Parts Inventory Policies of An Automotive Company Using OptQuest**
ILGIN M. A., TUNALI S.
Proceedings of AMSE International Conference on Modeling and Simulation, Konya, Turkey, 28 - 30 August 2006, pp.27-31, (Full Text)

Academic and Administrative Experience

2021 - Present	**Head of Department**	Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ
2021 - Present	**Faculty Board Member**	Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ
2021 - 2024	**Head of Department**	Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ

2019 - 2021	**Deputy Head of Department**	Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Endüstri Mühendisliği
2014 - 2015	**Faculty Board Member**	Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ
2014 - 2015	**Head of Department**	Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ
2012 - 2014	**Assistant Manager of Research and Application Center**	Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ
2012 - 2014	**Deputy Head of Department**	Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ
2012 - 2014	**Farabi Program Department Coordinator**	Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ
2012 - 2014	**Erasmus Program Department Coordinator**	Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, ENDÜSTRİ MÜHENDİSLİĞİ

Courses

Doctorate

Yeniden İmalat Sistemlerinin Modellenmesi ve Analizi, Doctorate, 2024 - 2025, 2023 - 2024

Postgraduate

Çok Kriterli Karar Verme, Postgraduate, 2025 - 2026, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Tedarik Zinciri Yönetimi, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Undergraduate

Endüstri Sistemleri Tasarımı 2, Undergraduate, 2025 - 2026, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022

Disiplinlerarası Mühendislik Çalışmaları, Undergraduate, 2026 - 2027, 2025 - 2026, 2024 - 2025

Uygulamalı Mühendislik Ekonomisi, Undergraduate, 2025 - 2026, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Endüstriyel Sistem Tasarımı I, Undergraduate, 2026 - 2027, 2025 - 2026, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022

Sosyal Sorumluluk Projesi, Undergraduate, 2026 - 2027, 2025 - 2026, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022

Supply Chain Management, Undergraduate, 2026 - 2027, 2025 - 2026, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

İşletmede Mesleki Eğitim, Undergraduate, 2025 - 2026, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022

Çok Kriterli Karar Verme, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014

İş Yeri Uygulama Eğitimi, Undergraduate, 2020 - 2021, 2019 - 2020

Kalite Planlama ve Kontrol, Undergraduate, 2020-2021, 2019-2020, 2018-2019

Mühendislik Ekonomisi, Undergraduate, 2019-2020, 2018-2019, 2017-2018, 2016-2017, 2015-2016, 2014-2015, 2013-2014, 2012-2013

Kalite Planlama ve Konrol, Undergraduate, 2017-2018, 2016-2017

Endüstri Sistemleri Tasarımı 1, Undergraduate, 2017-2018, 2016-2017, 2015-2016, 2014-2015

Envanter Yönetimi, Undergraduate, 2016-2017, 2013-2014, 2012-2013
Tedarik Zinciri Yönetimi, Undergraduate, 2015-2016, 2014-2015, 2013-2014
Modeling and Simulation, Undergraduate, 2014-2015
Temel Bilgisayar Bilimleri, Undergraduate, 2012-2013
Mühendisler İçin İstatistik, Undergraduate, 2012-2013

Supervised Theses

Kalaycı C. B., Ilgın M. A., Sürdürülebilirlik odaklı kısmi demontaj hat dengelemede çok amaçlı optimizasyon ve metasezgisel çözümler, Doctorate, E.GÜLER(Student), 2026
Ilgın M. A., Üçüncü Parti Tersine Lojistik Sağlayıcı Firmaların Çok Kriterli Bir Yaklaşımla Sınıflandırılması, Postgraduate, A.RANA(Student), 2025
Nişancı Z. N., Ilgın M. A., İşletmelerin dijital dönüşüm düzeyleriyle yöneticilerin dijital okuryazarlık ve dijital liderlik seviyelerinin çok kriterli karar verme yöntemleri ile değerlendirilmesi, Doctorate, H.AKPINAR(Student), 2025
ILGIN M. A., Çok kriterli sınıflandırma ve kalite evi ile bağlantı elemanları sektöründe sürdürülebilir ve stratejik tedarikçi yönetimi, Postgraduate, A.SEYMEN(Student), 2024
ILGIN M. A., Hızlı tüketim ürünleri üreten bir firmada taşıma simülasyonu ile ikincil ambalaj özelliklerinin iyileştirilmesi, Postgraduate, I.ŞEN(Student), 2023
ILGIN M. A., AKTAŞ H., Simülasyon optimizasyonu ile demontaj hattı dengeleme, Doctorate, M.ENES(Student), 2021

Activities in Scientific Journals

Celal Bayar Üniversitesi Fen Bilimleri Dergisi, Editor, 2023 - Present

Peer Reviews in Scientific Publications

PRODUCTION PLANNING AND CONTROL, Journal Indexed in SCI-E, February 2025
Journal of Industrial Information Integration, Journal Indexed in SCI-E, August 2024
ADVANCED ENGINEERING INFORMATICS, Journal Indexed in SCI-E, January 2024
APPLIED SOFT COMPUTING JOURNAL, Journal Indexed in SCI-E, January 2024
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, Journal Indexed in SCI-E, December 2023
COMPUTERS & INDUSTRIAL ENGINEERING, Journal Indexed in SCI-E, May 2023
JOURNAL OF ENGINEERING RESEARCH, Journal Indexed in SCI-E, May 2023
EXPERT SYSTEMS WITH APPLICATIONS, Journal Indexed in SCI-E, January 2023
JOURNAL OF MANUFACTURING SCIENCE AND ENGINEERING, TRANSACTIONS OF THE ASME, Journal Indexed in SCI-E, October 2022
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, Journal Indexed in SCI-E, September 2022
COMPUTERS & OPERATIONS RESEARCH, Journal Indexed in SCI-E, December 2021
INTERNATIONAL JOURNAL OF INFORMATION TECHNOLOGY & DECISION MAKING, SCI Journal, September 2021
IEEE TRANSACTIONS ON AUTOMATION SCIENCE & ENGINEERING, Journal Indexed in SCI-E, March 2021
ROBOTICS AND COMPUTER-INTEGRATED MANUFACTURING, Journal Indexed in SCI-E, December 2020
JOURNAL OF CLEANER PRODUCTION, Journal Indexed in SCI-E, November 2020
COMPUTERS & INDUSTRIAL ENGINEERING, Journal Indexed in SCI-E, June 2020
JOURNAL OF RETAILING AND CONSUMER SERVICES, Journal Indexed in SCI-E, May 2020
AEJ - ALEXANDRIA ENGINEERING JOURNAL, Journal Indexed in SCI-E, February 2020
IEEE TRANSACTIONS ON AUTOMATION SCIENCE & ENGINEERING, Journal Indexed in SCI-E, October 2019
JOURNAL OF MANUFACTURING SYSTEMS, Journal Indexed in SCI-E, October 2019
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, Journal Indexed in SCI-E, September 2019

COMPUTERS & OPERATIONS RESEARCH, Journal Indexed in SCI-E, August 2019
COMPUTERS & INDUSTRIAL ENGINEERING, Journal Indexed in SCI-E, August 2019
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, Journal Indexed in SCI-E, March 2018
ASSEMBLY AUTOMATION, Journal Indexed in SCI-E, March 2018
JOURNAL OF INTELLIGENT MANUFACTURING, Journal Indexed in SCI-E, February 2018
International Journal of Industrial Engineering: Theory, Applications and Practice, Journal Indexed in SCI-E, January 2018
FLEXIBLE SERVICES AND MANUFACTURING JOURNAL, Journal Indexed in SCI-E, January 2018
JOURNAL OF MANUFACTURING SCIENCE AND ENGINEERING, TRANSACTIONS OF THE ASME, Journal Indexed in SCI-E, August 2017
JOURNAL OF THE OPERATIONAL RESEARCH SOCIETY, Journal Indexed in SCI-E, June 2017
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, Journal Indexed in SCI-E, April 2017
JOURNAL OF CLEANER PRODUCTION, Journal Indexed in SCI-E, March 2017
JOURNAL OF MANUFACTURING SYSTEMS, Journal Indexed in SCI-E, January 2017
ANNALS OF OPERATIONS RESEARCH, Journal Indexed in SCI-E, July 2016
COMPUTERS IN INDUSTRY, Journal Indexed in SCI-E, May 2016
COMPUTERS & INDUSTRIAL ENGINEERING, Journal Indexed in SCI-E, February 2016
RESOURCES, CONSERVATION AND RECYCLING, Journal Indexed in SCI-E, February 2016
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, Journal Indexed in SCI-E, January 2016
STRUCTURAL ENGINEERING AND MECHANICS, Journal Indexed in SCI-E, December 2015
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, Journal Indexed in SCI-E, November 2015
JOURNAL OF INTELLIGENT MANUFACTURING, Journal Indexed in SCI-E, September 2015
COMPUTERS & INDUSTRIAL ENGINEERING, Journal Indexed in SCI-E, March 2015
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ENGINEERING OPTIMIZATION, Journal Indexed in SCI-E, March 2014
APPLIED MATHEMATICAL MODELLING, Journal Indexed in SCI-E, March 2014
IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, Journal Indexed in SCI-E, January 2014
COMPUTATIONAL AND APPLIED MATHEMATICS, Journal Indexed in SCI-E, January 2014
QUALITY AND RELIABILITY ENGINEERING INTERNATIONAL, Journal Indexed in SCI-E, December 2013
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, Journal Indexed in SCI-E, July 2013
ASSEMBLY AUTOMATION, Journal Indexed in SCI-E, April 2013
ASIA-PACIFIC JOURNAL OF OPERATIONAL RESEARCH, Journal Indexed in SCI-E, February 2013
JOURNAL OF CLEANER PRODUCTION, Journal Indexed in SCI-E, February 2013
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, Journal Indexed in SCI-E, November 2012
JOURNAL OF ENVIRONMENTAL PLANNING & MANAGEMENT, Journal Indexed in SSCI, June 2012
COMPUTERS & INDUSTRIAL ENGINEERING, Journal Indexed in SCI-E, June 2012
TECHNOLOGICAL AND ECONOMIC DEVELOPMENT OF ECONOMY, Journal Indexed in SSCI, March 2012
ENVIRONMENTAL SCIENCE & TECHNOLOGY, Journal Indexed in SCI-E, March 2012
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INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, Journal Indexed in SCI-E, October 2011
PRODUCTION PLANNING AND CONTROL, Journal Indexed in SCI-E, August 2011
IEEE TRANSACTIONS ON AUTOMATION SCIENCE & ENGINEERING, Journal Indexed in SCI-E, June 2011
INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH, Journal Indexed in SCI-E, March 2011
ENVIRONMENTAL SCIENCE & TECHNOLOGY, Journal Indexed in SCI-E, August 2010
OMEGA, Journal Indexed in SCI-E, April 2010
JOURNAL OF CLEANER PRODUCTION, Journal Indexed in SCI-E, January 2010
SIMULATION MODELLING PRACTICE AND THEORY, Journal Indexed in SCI-E, October 2009

Metrics

Publication: 80
Citation (WoS): 1456
Citation (Scopus): 2008
H-Index (WoS): 17
H-Index (Scopus): 18

Research Areas

Avesis Research Areas: Industrial Engineering, Simulation, Production Planning and Control, Decision Theory, Supply Chain and Logistics Management
WoS Research Areas: Engineering Industrial, Engineering Computing & Technology (Eng), Engineering Manufacturing
Scopus Research Areas: Industrial and Manufacturing Engineering