

Asst. Prof. BURCU YILMAZ KAYA

Personal Information

Office Phone: [+90 312 582 3803](tel:+903125823803)

Fax Phone: [+90 312 230 8434](tel:+903122308434)

Email: burcuyilmaz@gazi.edu.tr

Web: <https://abs.gazi.edu.tr/burcuyilmaz>

Address: Eti Mah. Yükseliş Sok. Gazi Üniversitesi Mühendislik Fakültesi Endüstri Mühendisliği Bölümü 8. Kat Oda No:803 0657
Maltepe Çankaya Ankara

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), Turkey 2010 - 2018

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (YI) (Tezli), Turkey 2008 - 2010

Undergraduate, Istanbul Commerce University, Faculty Of Engineering And Design, Department Of Industrial Engineering, Turkey 2003 - 2007

Dissertations

Doctorate, Ekip çizelgeleme probleminde insani faktör etkilerinin incelenmesi ve bir karar destek sistemi önerisi, Gazi University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), 2018

Postgraduate, Ekipman Seçimi Problemi için bulanık PROMETHEE ve 0-1 Hedef Programlama Yöntemlerinin Bütünleşik Kullanımı, Gazi University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (YI) (Tezli), 2010

Research Areas

Industrial Engineering , Ergonomics and Occupational Safety, Multi Criteria Decision Making, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Gazi University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2020 - Continues

Research Assistant PhD, Gazi University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2018 - 2020

Research Assistant, Gazi University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2009 - 2018

Courses

Ergonomics, Undergraduate, 2021 - 2022

Human Resources Management, Undergraduate, 2019 - 2020, 2020 - 2021, 2021 - 2022

Product Design and Development, Undergraduate, 2020 - 2021

Human Resources Management, Undergraduate, 2019 - 2020, 2020 - 2021, 2021 - 2022

Product Design and Development, Undergraduate, 2020 - 2021

Articles Published in Journals That Entered SCI, SSCI and AHCI indexes

- I. **A DSS-Based Novel Approach Proposition Employing Decision Techniques for System Design**
Kaya B., ADEM A., Dagdeviren M.
INTERNATIONAL JOURNAL OF INFORMATION TECHNOLOGY & DECISION MAKING, vol.19, no.2, pp.413-445, 2020
(Journal Indexed in SCI)
- II. **Selecting Occupational Safety Equipment by MCDM Approach Considering Universal Design Principles**
YILMAZ KAYA B., Dagdeviren M.
HUMAN FACTORS AND ERGONOMICS IN MANUFACTURING & SERVICE INDUSTRIES, vol.26, no.2, pp.224-242, 2016 (Journal Indexed in SCI)
- III. **A combined approach for equipment selection: F-PROMETHEE method and zero-one goal programming**
Yilmaz B., Dagdeviren M.
EXPERT SYSTEMS WITH APPLICATIONS, vol.38, no.9, pp.11641-11650, 2011 (Journal Indexed in SCI)
- IV. **COMPARATIVE ANALYSIS OF PROMETHEE AND FUZZY PROMETHEE METHODS IN EQUIPMENT SELECTION PROBLEM**
Yilmaz B., Dagdeviren M.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.25, no.4, pp.811-826, 2010 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **An Ergonomic Investigation of Working Environment with Kano Model and Universal Design Principles**
ADEM A., YILMAZ KAYA B., Dagdeviren M.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.32, no.2, pp.582-593, 2019 (Journal Indexed in ESCI)
- II. **A Human Resources Management Application for Hospitality Management in Turkey**
YILMAZ KAYA B., DAĞDEVİREN M.
International Journal of Business and Management Studies, vol.10, no.2, pp.39-50, 2018 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Technology Analysis for Logistics 4.0 Applications: Criteria Affecting UAV Performances**
Adem A., Yılmaz Kaya B., Dağdeviren M.
in: Intelligent and Fuzzy Techniques in Aviation 4.0. Studies in Systems, Decision and Control, Cengiz Kahraman, Serhat Aydın, Editor, Springer, London/Berlin, London, pp.497-520, 2022
- II. **PROMETHEE Yöntemi ve IoT Temelli Akıllı Saat Alternatiflerinin Değerlendirilmesinde Uygulanması**
YILMAZ KAYA B., DAĞDEVİREN M.
in: Çok Kriterli Karar Verme Yöntemleri: Ms Excel Çözümlü Uygulamalar, Prof. Dr. Mehmet Kabak; Doç. Dr. Yetkin Çınar, Editor, NOBEL AKADEMİK YAYINCILIK EĞİTİM DANIŞMANLIK TİC. LTD. ŞTİ., Ankara, pp.101-121, 2020

Refereed Congress / Symposium Publications in Proceedings

- I. **A MATHEMATICAL APPROACH PROPOSAL TO ANALYZE SUSTAINABLE DEVELOPMENT PERFORMANCE**
Yılmaz Kaya B., Ok Y.
XLVIII International Symposium on Operational Research, Belgrade, Serbia, 20 - 23 September 2021, pp.65-70
- II. **CLUSTERING ANALYSIS OF TURKEY AND EU COUNTRIES ON THE AXIS OF GREEN GROWTH HEADLINE INDICATORS**

Ok Y., Yılmaz Kaya B.

XLVIII International Symposium on Operational Research, Belgrade, Serbia, 20 - 23 September 2021, pp.483-488

- III. **Multi-criteria Approach to Usability Research for Digital Platforms in Fuzzy Environment**
Yılmaz Kaya B., Adem A., Dağdeviren M.
Intelligent and Fuzzy Systems Conference, İstanbul, Turkey, 24 - 26 August 2021, pp.417-425
- IV. **Fuzzy Multi-criteria Analysis of Factors Affecting the Digitalization Success of Public Services**
Adem A., Yılmaz Kaya B., Dağdeviren M.
Intelligent and Fuzzy Systems Conference , İstanbul, Turkey, 24 - 26 August 2021, pp.316-324
- V. **EVALUATION OF THE EFFECTS OF HUMAN FACTORS ON THE INTERNET OF THINGS (IOT)**
ADAR T., YILMAZ KAYA B., KILIÇ DELİCE E.
5th International Conference on Engineering Sciences (ICES 2019), Ankara, Turkey, 19 September 2019, pp.221-224
- VI. **Kullanılabilirlik Çalışmalarında Yeni Bir Tasarım Aracı: Ergonomik Fonksiyon Yayılımı**
YILMAZ KAYA B., DAĞDEVİREN M.
25. Ulusal Ergonomi Kongresi, Samsun, Turkey, 18 - 20 October 2019, pp.59
- VII. **Ergonomide Sürdürülebilirlik Araştırmaları ve Yeşil Ergonomi Kavramı**
YILMAZ KAYA B., DAĞDEVİREN M.
25. Ulusal Ergonomi Kongresi, Samsun, Turkey, 18 - 20 October 2019
- VIII. **Guiding Analysis to Accomplish the Challenges for Implementation of Industry 4.0**
YILMAZ KAYA B., DAĞDEVİREN M.
10th International Symposium on Intelligent Manufacturing and Service Systems, Sakarya, Turkey, 9 - 11 September 2019, pp.738-746
- IX. **Strategy Selection for Smoothing the Transition Period of Industry 4.0 Applications Implementation**
YILMAZ KAYA B., DAĞDEVİREN M.
10th International Symposium on Intelligent Manufacturing and Service Systems, Sakarya, Turkey, 9 - 11 September 2019, pp.728-737
- X. **İş Sağlığı ve Güvenliği Risk Yönetimi İçin Bütünleşik Bir Risk Değerlendirme Yaklaşımı Önerisi**
YILMAZ KAYA B., DAĞDEVİREN M.
24. Ulusal Ergonomi Kongresi, Erzurum, Turkey, 28 - 30 September 2018, pp.107
- XI. **A Human Centered Multi-Criteria Decision Making Approach Proposition for Priorization of Ergonomic Factors in Terms of Working Productivity**
YILMAZ KAYA B., ADEM A., DAĞDEVİREN M.
12th International NCM Conferences: New Challenges in Industrial Engineering and Operations Management, Ankara, Turkey, 11 - 12 September 2018, pp.128
- XII. **An Integrated Model Proposal for the Selection of Lean Manufacturing Techniques**
ADEM A., YILMAZ KAYA B., DAĞDEVİREN M.
12th International NCM Conferences: New Challenges in Industrial Engineering and Operations Management, Ankara, Turkey, 11 - 12 September 2018, pp.129
- XIII. **A Human Resources Management Application For Hospitality Management In Turkey**
YILMAZ KAYA B., DAĞDEVİREN M.
INTERNATIONAL CONFERENCE ON TOURISM, TRAVEL, LEISURE AND HOSPITALITY 2017, İzmir, Turkey, 20 - 21 October 2017, pp.17
- XIV. **A Fuzzy Marketing Strategy Benchmarking Analysis in Service Sector**
YILMAZ KAYA B., DAĞDEVİREN M.
The 5th International Fuzzy Systems Symposium 2017, Ankara, Turkey, 14 - 15 October 2017, pp.101
- XV. **An Economy Class Service Systems Analysis Based on Fuzzy Methodologies**
YILMAZ KAYA B., DAĞDEVİREN M.
The 5th International Fuzzy Systems Symposium 2017, Ankara, Turkey, 14 - 15 October 2017, pp.38
- XVI. **Havacılık İşletmeciliğinde Operasyon Optimizasyonu ve Bir Uygulama**
YILMAZ KAYA B., DAĞDEVİREN M.
The 3rd International Aviation Management Conference, Ankara, Turkey, 19 April 2016, pp.178-191

- XVII. **Determining Service Attributes of Airline Transportation Industry with Fuzzy QFD Method An Application in Turkey**
KILIÇ DELİCE E., YILMAZ KAYA B., DAĞDEVİREN M.
The 4th International Fuzzy Systems Symposium, İstanbul, Turkey, 5 - 06 November 2015
- XVIII. **Çalışma Ortamı Kalitesinin Ergonomik Faktörler Temelinde Kano Model ile İncelenmesi**
ADEM A., YILMAZ KAYA B., DAĞDEVİREN M.
21. Ulusal Ergonomi Kongresi, Isparta, Turkey, 2 - 04 October 2015
- XIX. **Alternatif Makine Çizelgelerinin Ergonomik Değerlendirilmesi İçin Bir Model Önerisi**
YILMAZ KAYA B., ADEM A., DAĞDEVİREN M.
21. Ulusal Ergonomi Kongresi, Isparta, Turkey, 2 - 04 October 2015
- XX. **Investigation of the Effect of Humanitarian Factors for Crew Rostering Problem**
YILMAZ KAYA B., DAĞDEVİREN M.
Joint International Symposium on "The Social Impacts of Developments in Information, Manufacturing and Service Systems" 44th INTERNATIONAL CONFERENCE on COMPUTERS & INDUSTRIAL ENGINEERING and 9th INTERNATIONAL SYMPOSIUM on INTELLIGENT MANUFACTURING and SERVICE SYSTEMS, İstanbul, Turkey, 14 - 16 October 2014
- XXI. **BİR ÜRETİM HATTINDA İŞ SAĞLIĞI VE GÜVENLİĞİ RİSKLERİ İÇİN ÇOK KRİTERLİ ANALİZ**
YILMAZ KAYA B., DAĞDEVİREN M.
20. Ulusal Ergonomi Kongresi, Ankara, Turkey, 26 - 28 September 2014
- XXII. **A Sample Application of Web Based Examination System for Distance and Formal Education**
YILMAZ KAYA B., KAYA G., DAĞDEVİREN M.
4th World Conference on Learning, Teaching and Educational Leadership (WCLTA), Barcelona, Spain, 27 - 29 October 2013, vol.141, pp.1357-1362
- XXIII. **A Fuzzy Model for the Selection of Job Safety Equipment on the Base of Universal Design Principles**
YILMAZ KAYA B., DAĞDEVİREN M.
The 3rd International Fuzzy Systems Symposium, İstanbul, Turkey, 24 - 25 October 2013
- XXIV. **A DECISION SUPPORT SYSTEM FOR TIMETABLING IN EDUCATION A WEB BASED EXAM SCHEDULING APPLICATION**
YILMAZ KAYA B., DAĞDEVİREN M.
Euro INFORMS 26th European Conference on Operational Research, Roma, Italy, 1 - 04 July 2013
- XXV. **KULLANILABİLİRLİK ÇALIŞMALARI İÇİN BÜTÜNLEŞİK BİR YÖNTEM GRİ TEORİ VE PROMETHEE**
YILMAZ KAYA B., DAĞDEVİREN M.
18. ULUSAL ERGONOMİ KONGRESİ, Gaziantep, Turkey, 16 - 18 November 2012
- XXVI. **İŞ YÜKÜ TEMELLİ PERSONEL ÇİZELGELEME PROBLEMİ İÇİN BİR MODEL ÖNERİSİ**
YILMAZ KAYA B., DAĞDEVİREN M.
32. Yöneylem Araştırması ve Endüstri Mühendisliği Kongresi, İstanbul, Turkey, 20 - 22 June 2012
- XXVII. **İŞ ÖLÇÜMÜNDE STANDART VERİ SİSTEMLERİNİN KULLANILMASINA YÖNELİK BİR ENDÜSTRİ UYGULAMASI**
YILMAZ KAYA B., DAĞDEVİREN M.
17. Ulusal Ergonomi Kongresi, Eskişehir, Turkey, 14 - 16 October 2011
- XXVIII. **PROMETHEE İÇİN DECISION LAB YAZILIMI VE ÖRNEK BİR PROBLEM ÜZERİNDE UYGULANMASI**
YILMAZ KAYA B., DAĞDEVİREN M.
ENDÜSTRİ MÜHENDİSLİĞİ YAZILIMLARI VE UYGULAMALARI KONGRESİ, İzmir, Turkey, 30 September - 02 October 2011
- XXIX. **TEDARİK ZİNCİRİ YÖNETİMİNDE DEPO YERİ SEÇİMİ PROBLEMİNİN ÇÖZÜMÜ İÇİN TABU ARAMA ALGORİTMASI**
YILMAZ KAYA B., DAĞDEVİREN M.
31. YÖNEYLEM ARAŞTIRMASI ve ENDÜSTRİ MÜHENDİSLİĞİ KONGRESİ, Sakarya, Turkey, 5 - 07 July 2011
- XXX. **HIZLI TÜKETİM MALLARI DEPO YERİ SEÇİMİ PROBLEMİ İÇİN GENETİK ALGORİTMA İLE BİR ÇÖZÜM**
YILMAZ KAYA B., DAĞDEVİREN M.
11. ÜRETİM ARAŞTIRMALARI SEMPOZYUMU, İstanbul, Turkey, 23 - 24 June 2011

- XXXI. **ÜRÜN TASARIMI SÜRECİNDEKİ BELİRSİZLİKLER İÇİN YENİ BİR YAKLAŞIM F PROMETHEE VE KFY YÖNTEMLERİNİN BÜTÜNLEŞTİRİLMESİ**
YILMAZ KAYA B., DAĞDEVİREN M.
10. Ulusal Üretim Arastirmalari Sempozyumu, Girne, Cyprus (Kktc), 16 - 18 September 2010
- XXXII. **HATA AĞACI ANALİZİ RİSK BELİRLEME SÜRECİ İÇİN ALTERNATİF BİR HESAPLAMA YÖNTEMİ**
YILMAZ KAYA B., DAĞDEVİREN M.
30. Yöneylem Araştırması ve Endüstri Muhendisliđi Kogresi, İstanbul, Turkey, 30 June - 02 July 2010
- XXXIII. **EKİPMAN SEÇİMİ PROBLEMİNDE BULANIK PROMETHEE YÖNTEMİNİN KULLANILMASI**
YILMAZ KAYA B., DAĞDEVİREN M.
9. ÜRETİM ARAŞTIRMALARI SEMPOZYUMU, Eskişehir, Turkey, 15 - 17 October 2009

Scientific Refereeing

AVRUPA BİLİM VE TEKNOLOJİ DERGİSİ, National Scientific Refreed Journal, August 2019

ENDÜSTRİ MÜHENDİSLİĞİ, National Scientific Refreed Journal, July 2019

APPLIED SOFT COMPUTING, SCI Journal, October 2017

International Journal Of Production Research, SCI Journal, July 2017

hospital practice, Other Indexed Journal, July 2017

OMEGA-INTERNATIONAL JOURNAL OF MANAGEMENT SCIENCE, SCI Journal, April 2017

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, SCI Journal, August 2015

Applied Mathematical Modelling, Journal Indexed in SCI-E, July 2011

Citations

Total Citations (WOS):80

h-index (WOS):3