

İBRAHİM YILMAZ

ASSOC. PROF.

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International Researcher IDs

ScholarID: 8dsWTeYAAAAJ

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Learning Knowledge

Doctorate 2014 - 2019	State University of New York at Binghamton, THE WATSON SCHOOL OF ENGINEERING, United States Of America
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Postgraduate 2010 - 2012	Gazi University, Graduate School Of Natural And Applied Sciences, Turkey
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Undergraduate 2005 - 2010	Gazi University, Faculty of Engineering, Turkey
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Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Distributed decision algorithms for fair resource allocations in collaborative networks, State University of New York at Binghamton, 2018

Academic Titles / Tasks

Assistant Professor 2019 - Continues	Ankara Yıldırım Beyazıt University, Mühendislik ve Doğa Bilimleri Fakültesi, Endüstri Mühendisliği
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Lecturer 2019 - 2019	Ankara Yıldırım Beyazıt University, Mühendislik ve Doğa Bilimleri Fakültesi, Endüstri Mühendisliği
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Awards

1. Yılmaz İ., Arıöz Y., Yıldızbaşı A., Öztürk C., BEST STUDENT PAPER "Big-Data Driven in COVID-19 Pandemic Management System: Evaluation of Barriers with Spherical Fuzzy AHP Approach", Intelligen And Fuzzy Systems-Infus2021, March 2021

2. Eraslan E., Yılmaz İ., Yıldızbaşı A., Keleş A., Demircan A., Irmak M., Alkaş B., En iyi araştırma birincisi, Sağlık Akademisyenleri Derneği, December 2020
3. Yılmaz İ., Serhan D., Wang H., Lu H., Computer and Information Systems Division-Mobile App Competition, Institute Of Industrial And Systems Engineering, May 2017

Scholarships

YLSY, Ministry of Education, 2011 - 2018

Binghamton University Foundation Travel Grant, University, 2015 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Systematic literature review based on the descriptive, bibliometric, and content analysis of renewable energy supply chain for a circular economy**
Ariöz Y., Yıldızbaşı A., Özceylan E., Yılmaz İ.
Journal of Renewable and Sustainable Energy, vol.16, no.2, 2024 (SCI-Expanded)
2. **Bibliometric Analysis on the Distributed Decision, Decentralized Decision, and Fuzzy Logic**
Çağlayan N., Abbasi S., YILMAZ İ., ERDEBİLLİ B.
Discrete Dynamics in Nature and Society, vol.2024, 2024 (SCI-Expanded)
3. **An Interval-Valued Pythagorean Fuzzy AHP and COPRAS Hybrid Methods for the Supplier Selection Problem**
ERDEBİLLİ B., YILMAZ İ., Aksoy T., Hacıoğlu U., YÜKSEL S., DİNÇER H.
International Journal of Computational Intelligence Systems, vol.16, no.1, 2023 (SCI-Expanded)
4. **A machine learning-integrated multi-criteria decision-making approach based on consensus for selection of energy storage locations**
YILMAZ İ., ADEM A., Dağdeviren M.
Journal of Energy Storage, vol.69, 2023 (SCI-Expanded)
5. **A Hybrid DEA-Fuzzy COPRAS Approach to the Evaluation of Renewable Energy: A Case of Wind Farms in Turkey**
YILMAZ İ.
Sustainability (Switzerland), vol.15, no.14, 2023 (SCI-Expanded)
6. **Q-ROF Fuzzy TOPSIS and VIKOR Methods for the Selection of Sustainable Private Health Insurance Policies**
ERDEBİLLİ B., Gecer E., YILMAZ İ., Aksoy T., Hacıoğlu U., DİNÇER H., YÜKSEL S.
Sustainability (Switzerland), vol.15, no.12, 2023 (SCI-Expanded)
7. **Celiac disease multi-purpose diet plan through integrated goal programming and Interval Type 2 Fuzzy TOPSIS method**
YILMAZ İ., Polat L.
Expert Systems with Applications, vol.218, 2023 (SCI-Expanded)
8. **A Fuzzy DEMATEL framework for maintenance performance improvement: A case of Moroccan Chemical Industry**
Yılmaz İ., Erdebilli B., Naji M. A., Mousrij A.
JOURNAL OF ENGINEERING RESEARCH, vol.11, pp.1-8, 2023 (SCI-Expanded)
9. **A framework for evaluating electrical vehicle charging station location decisions in a spherical fuzzy environment: a case of shopping malls**
YILMAZ İ., Özceylan E., Mrugalska B.
Annals of Operations Research, 2023 (SCI-Expanded)
10. **A Sustainable Supply Chain Integrated with Automated Inspection, Flexible Eco-Production, and Smart Transportation**

Dey B. K., Yılmaz İ., Seok H.

Processes, vol.10, no.9, 2022 (SCI-Expanded)

11. **Dynamic-distributed decisions and sharing protocol for fair resource sharing in collaborative network**
YILMAZ İ., Yoon S. W.
International Journal of Production Economics, vol.226, 2020 (SCI-Expanded)
12. **Evaluation of retail industry performance ability through integrated intuitionistic fuzzy TOPSIS and data envelopment analysis approach**
Rouyendegh B. D., YILDIZBAŞI A., YILMAZ İ.
Soft Computing, vol.24, no.16, pp.12255-12266, 2020 (SCI-Expanded)
13. **A framework and algorithm for fair demand and capacity sharing in collaborative networks**
Yılmaz İ., Yoon S. W., Seok H.
International Journal of Production Economics, vol.193, pp.137-147, 2017 (SCI-Expanded)

Articles Published in Other Journals

1. **An integrated multiple-criteria decision-making and data envelopment analysis framework for efficiency assessment in sustainable healthcare systems**
Erdebilli B., Sicakyuz C., Yılmaz İ.
Healthcare Analytics, vol.5, no.24, pp.100327, 2024 (Scopus)
2. **UZMAN VE PRATİSYEN DOKTORLARIN ZİHİNSEL İŞ YÜKLERİNİN NASA-TLX YÖNTEMİ İLE KARŞILAŞTIRILMASI2282**
TOSUN S., YILMAZ İ.
INTERNATIONAL JOURNAL OF ARCHITECTURE AND ENGINEERING, vol.3, no.2, pp.87-92, 2023 (Peer-Reviewed Journal)
3. **CARMEN-Q YÖNTEMİ İLE UZMAN VE PRATİSYEN HEKİMLERİN ZİHİNSEL İŞ YÜKLERİNİN ÖLÇÜLMESİ VE FARKLILIKLARININ DEĞERLENDİRİLMESİ**
TOSUN S., YILMAZ İ.
Ergonomi (Online), vol.6, no.2, pp.132-144, 2023 (Peer-Reviewed Journal)
4. **HAVACILIK SEKTÖRÜNDE YER HİZMETLERİ İŞ SAĞLIĞI VE GÜVENLİĞİ EĞİTİMLERİNDE SANAL GERÇEKLIK TEKNOLOJİSİNİN KULLANILMASI ÜZERİNE BİR ARAŞTIRMA**
Polat M. M., YILMAZ İ.
Ergonomi (Online), vol.6, no.2, pp.117-131, 2023 (Peer-Reviewed Journal)
5. **Hastanelerde Yangınla Mücadelede Acil Durum Yönetimine İlişkin Kritik Başarı Faktörlerinin Belirlenmesi**
TOSUN S., YILMAZ İ.
Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, vol.9, no.2, pp.760-771, 2022 (Peer-Reviewed Journal)
6. **Bir Otomobil Bakım Servisinde Müşteri Randevu Planlaması İçin Model Önerisi**
YILMAZ İ.
JOURNAL OF TURKISH OPERATIONS MANAGEMENT, vol.6, no.2, pp.1410-1423, 2022 (Peer-Reviewed Journal)
7. **A Distributed Adaptive Coordination Protocol to Enhance Manual Order Picking Operations**
Dauod H., YILMAZ İ., Yoon S. W.
Procedia Manufacturing, vol.17, pp.1023-1030, 2018 (Scopus)

Books & Book Chapters

1. **Analyzing the Solar Energy System Investment in Turkey**
ERDEBİLLİ B., YILMAZ İ., Can R. N.
in: Handbook of Smart Energy Systems, Michel Fathi, Enrico Zio, Panos M. Pardalos, Editor, Springer, Cham, Texas,

- pp.2653-2684, 2023
2. **Qualitative Analysis Method for Evaluation of Risk and Failures in Wind Power Plants: A Case Study of Turkey**
YILMAZ İ., ÇALIŞKAN E.
in: Advances in Reliability, Failure and Risk Analysis, Harish Garg, Editor, Springer, pp.285-302, 2023
 3. **Analyzing the Solar Energy System Investment in Turkey**
Can R. N., YILMAZ İ., ERDEBİLLİ B.
in: Handbook of Smart Energy Systems, Fathi, M., Zio, E., Pardalos, P.M., Editor, Springer, Cham, pp.1-32, 2022
 4. **COVID-19 Pandemi Sürecinde Tıbbi Atık İşleme Tesislerinde Talep ve Kapasite Paylaşım Kararları**
BÜLTER A. E., YILMAZ İ., ÇERÇİOĞLU H.
in: Current Debates on Natural and Engineering Sciences, Güler Cengiz, Karacagil Zeynel, Editor, Bilgin Kültür Sanat Yayınlar, Ankara, pp.124-134, 2022
 5. **Evaluating Industry 4.0 Barriers by Intuitionistic Fuzzy VIKOR Method**
YILMAZ İ.
in: Multiple Criteria Decision Making with Fuzzy Sets, Erdebilli, B., Weber, GW., Editor, Springer, Charm, pp.167-178, 2022
 6. **BULANIK ÇOK KRİTERLİ KARAR VERME YÖNTEMLERİ - MS Excel ® ve Software Çözümlü Uygulamalar**
YILDIZBAŞI A., YILMAZ İ., ERDEBİLLİ B.
Nobel, 2021
 7. **COVID-19 Salgını Sürecinde Uzaktan Eğitim Platformlarının Tek Değerli Nötrosifik TODIM Metodu ile Değerlendirilmesi**
YILMAZ İ.
in: BULANIK ÇOK KRİTERLİ KARAR VERME YÖNTEMLERİ - MS Excel ® ve Software Çözümlü Uygulamalar, Kabak Mehmet, Erdebilli Babek, Editor, NOBEL, Ankara, pp.314-329, 2021
 8. **Augmented Reality in Supply Chain Management**
DEMİR S., YILMAZ İ., PAKSOY T.
in: Logistics 4.0 Digital Transformation of Supply Chain Management, Paksoy Turan, Koçhan Çiğdem, Ali Sadia Samar, Editor, CRC Press, Florida, pp.136-146, 2020

Refereed Congress / Symposium Publications in Proceedings

1. **UZMAN VE PRATİSYEN DOKTORLARIN ZİHİNSEL İŞ YÜKLERİNİN NASA-TLX YÖNTEMİ İLE KARŞILAŞTIRILMASI**
TOSUN S., YILMAZ İ.
Ases International Bandırma Scientific Studies Conference October 27-29, 2023, Balıkesir, Türkiye, Balıkesir, Turkey, 27 - 29 October 2023
2. **A Study on Measuring the Mental Workload of Instructors and Evaluating Significant Differences**
TOSUN S., YILMAZ İ.
International Conference on Science, Engineering Management and Information Technology 2023 (Semit 2023), 14 - 15 September 2023
3. **An Approach to Fuzzy Distributed Multi-Objective Linear Programming for Optimizing Distribution Decisions in Relief Logistic Operations**
YILMAZ İ.
International Conference on Science, Engineering Management and Information Technology 2023 (Semit 2023), 14 - 15 September 2023
4. **A new multi-period resource allocation model for healthcare suppliers**
Karamuk M. O., YILMAZ İ.
6th International Conference on Engineering Sciences (ICES 2023), Ankara, Turkey, 03 February 2023
5. **A new framework to increase rest area efficiency for long haul truck drivers**

Ertan F., YILMAZ İ.

6th International Conference on Engineering Sciences (ICES 2023), Ankara, Turkey, 03 February 2023

6. **Ağaçşileri Endüstrisinde Faaliyet Gösteren İşletmelerde Kişisel Koruyucu Donanım Tercihlerinin Öncelik Sırasının Zelirlenmesinde MACBETH Yöntemi Uygulanması**
YILMAZ İ., YILMAZ K.
27. Ulusal Ergonomi Kongresi, İzmir, Turkey, 25 March 2022, pp.14
7. **Evaluation of Electrical Vehicles Charging Stations Location Decisions for Shopping Malls in Ankara**
YILMAZ İ., Başsoy A., Çakır M. K., Çetin B.
International Conference on Science, Engineering Management and Information Technology 2022 (Semit 2022), Ankara, Turkey, 02 February 2022
8. **Efficiency assessment of wind farms across Marmara region: A novel hybrid fuzzy DEA-Fuzzy MCDM**
YILMAZ İ.
International Conference on Science, Engineering Management and Information Technology 2022 (Semit 2022), Ankara, Turkey, 02 February 2022
9. **A Novel Framework for Blood Bank Inventory Management**
YILMAZ İ., Doğanç S., Çelikten Z.
International Conference on Science, Engineering Management and Information Technology 2022 (Semit 2022), Ankara, Turkey, 02 February 2022
10. **Covid-19 Vaccination Scheduling Using Feature Selection by Machine Learning Approach**
YILMAZ İ., Türkkkan Y., Değerli Y.
International Conference on Science, Engineering Management and Information Technology 2022 (Semit 2022), Ankara, Turkey, 02 February 2022
11. **Key Challenges of Lithium-Ion Battery Recycling Process in Circular Economy Environment: Pythagorean Fuzzy AHP Approach**
YILDIZBAŞI A., ÖZTÜRK C., YILMAZ İ., ARIÖZ Y.
International Conference on Intelligent and Fuzzy Systems, INFUS 2021, İstanbul, Turkey, 24 - 26 August 2021, vol.308, pp.561-568
12. **Big Data-Driven in COVID-19 Pandemic Management System: Evaluation of Barriers with Spherical Fuzzy AHP Approach**
ARIÖZ Y., YILMAZ İ., YILDIZBAŞI A., ÖZTÜRK C.
International Conference on Intelligent and Fuzzy Systems, INFUS 2021, İstanbul, Turkey, 24 - 26 August 2021, vol.308, pp.811-818
13. **Vaccine Selection Using Interval-Valued Intuitionistic Fuzzy VIKOR: A Case Study of Covid-19 Pandemic**
ÖZTÜRK C., YILDIZBAŞI A., YILMAZ İ., ARIÖZ Y.
International Conference on Intelligent and Fuzzy Systems, INFUS 2021, İstanbul, Turkey, 24 - 26 August 2021, vol.308, pp.101-108
14. **Hospital Type Location Allocation Decisions by Using Pythagorean Fuzzy Sets Composition: A Case Study of COVID-19**
YILMAZ İ., ARIÖZ Y., ÖZTÜRK C., YILDIZBAŞI A.
International Conference on Intelligent and Fuzzy Systems, INFUS 2021, İstanbul, Turkey, 24 - 26 August 2021, vol.308, pp.589-597
15. **Demand and Capacity Sharing Decisions in Medical Waste Disposal Facilities during the COVID-19 Pandemic Period**
BÜLTER A. E., YILMAZ İ., ÇERÇİOĞLU H.
International Congress of Engineering and Natural Sciences Studies, Ankara, Turkey, 7 - 09 March 2021
16. **ACİL SERVİS ÇALIŞANLARININ İŞ SAĞLIĞI VE GÜVENLİĞİ BİLİNCİNİN DEĞERLENDİRİLMESİ; BİR ÜNİVERSİTE HASTANESİ**
Alkaş B., Irmak M., YILMAZ İ., YILDIZBAŞI A., ERASLAN E., KELEŞ A., DEMİRCAN A.
2. Uluslararası Sağlık Kuruluşlarında İş Sağlığı ve Güvenliği Kongresi 2020, 17 December 2020
17. **Collaborative Perishable Inventory Management through Coordination Protocols under Stochastic**

Parameters

YILMAZ İ., ÇERÇİOĞLU H., ÇALIŞKAN E.

5th International Conference on Engineering Sciences, Ankara, Turkey, 19 September 2019, vol.1, pp.59

18. **Stratified Fuzzy MCDM Method**

ÇAĞLAYAN N., ERDEBİLLİ B., YILMAZ İ.

5th International Conference on Engineering Sciences, Ankara, Turkey, 19 September 2019, vol.1, pp.108

19. **Real-Time Pricing Protocol for Demand-side Management in Smart-Grid Network**

YILMAZ İ., DEMİR S.

5th International Conference on Engineering Sciences, Ankara, Turkey, 19 September 2019, vol.1, pp.51

20. **Elektrik Akımı Kaynaklı Yangın Sebeplerinin İstatistiksel Analizi**

ERASLAN E., YILMAZ İ., Ceran N.

25.Ulusal Ergonomi Kongresi, Samsun, Turkey, 18 - 20 October 2019, pp.28

21. **A Game Theoretic Solution Approach for Turkey's S-400 Air Defense System Purchase**

GÜNDOĞAN M., ERASLAN E., ERDEBİLLİ B., DEMİR S., YILMAZ İ.

International Congress of Engineering Sciences, Ankara, Turkey, 19 September 2019

22. **Fairness-Efficiency Tradeoffs in Collaborative Network Resource Allocation**

YILMAZ İ., YOON S. W.

IIE ANNUAL CONFERENCE & EXPO 2016, 21 - 24 May 2016

23. **An Extended Contract Net Protocol for Distributed Decision Mechanism in Collaborative Networks**

YILMAZ İ., YOON S. W.

The 6th Annual World Conference of the Society for Industrial and Systems Engineering, Herndon, United States Of America, 19 October 2017

24. **A Dynamic Negotiation Mechanism for Collaboration Price in Collaborative Network through Price Elasticity**

YILMAZ İ., YOON S. W.

Proceedings of the 2017 Industrial and Systems Engineering Conference, Pittsburg, United States Of America, 22 March 2017, vol.1, pp.1631-1636

25. **Collaborative Perishable Inventory Management Using Demand and Capacity Sharing Coordination Protocols**

Dauod H., YILMAZ İ., YOON S. W.

Proceedings of the 2017 Industrial and Systems Engineering Conference, Pittsburg, United States Of America, 24 May 2017, pp.494-499

26. **Perishable inventory network modeling through integrated coordination mechanism**

Khader N., Yilmaz I., Yoon S., Seok H.

Proceedings of the 2016 Industrial and Systems Engineering Research Conference, ISERC 2016, California, United States Of America, 18 May 2016, pp.1933-1938

Academic and Administrative Experience

2020 - Continues	Erasmus Program Institutional Coordinator	Ankara Yildirim Beyazit University, Fen Bilimleri Enstitüsü, -
2019 - Continues	Deputy Head of Department	Ankara Yildirim Beyazit University, Mühendislik ve Doğa Bilimleri Fakültesi, Endüstri Mühendisliği
2021 - 2022	Chairperson of University Quality Commission	Ankara Yildirim Beyazit University, Rektörlük Merkezi, -

2020 - 2022	Member of University Quality Commission	Ankara Yildirim Beyazit University
2019 - 2022	Quality Coordinator	Ankara Yildirim Beyazit University, Mühendislik ve Doğa Bilimleri Fakültesi
2019 - 2022	Internship Coordinator	Ankara Yildirim Beyazit University, Mühendislik ve Doğa Bilimleri Fakültesi, Endüstri Mühendisliği

Courses

Operations Research III, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021
Engineering Statistics, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Project Management, Undergraduate, 2021 - 2022, 2020 - 2021
Optimization Tools and Techniques, Undergraduate, 2022 - 2023
Engineering Economics, Undergraduate, 2019 - 2020
Production Planning and Control, Undergraduate, 2019 - 2020

Scientific Refereeing

INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, SCI Journal, February 2022
EXPERT SYSTEMS WITH APPLICATIONS, SCI Journal, July 2020
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, SCI Journal, March 2020
INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS, SCI Journal, March 2019

Metrics

Publication: 54
Citation (WoS): 1
Citation (Scopus): 79
H-Index (WoS): 1
H-Index (Scopus): 6

Research Areas

Industrial Engineering , Stochastic Modeling, Optimization Theory and Methods, Inventory Systems, Decision Theory, Multi Criteria Decision Making, Network Design, Engineering and Technology

Non Academic Experience

Anadolu Ajansı
BOTAŞ
Kalyon PV
TCDD TAŞIMACILIK
Tarım Kredi Kooperatifi Yem Fabrikaları