Asst. Prof. BEHİCE MELTEM KAYHAN TÜRKMEN



Personal Information

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International Researcher IDs
ScholarID: onqUWs8AAAAJ
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Publons / Web Of Science ResearcherID: IWL-9473-2023
ScopusID: 57198896341
Yoksis Researcher ID: 187876

Education

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği Ana Bilim Dalı, Turkey 2015 - 2022
Postgraduate, Karadeniz Technical University, Mühendislik Fakültesi, Endüstri Mühendisliği, Turkey 2012 - 2015
Undergraduate, Anadolu University, Mühendislik - Mimarlık Fakültesi, Endüstri Mühendisliği Bölümü, Turkey 2006 - 2011

Foreign Languages

English

Dissertations

Doctorate, Reinforcement learning based solution approaches to static and dynamic machine scheduling problems, Dokuz Eylul University, Fen Bilimleri Enstitüsü, 2022
Postgraduate, Bulanık çıkarım tabanlı bir model yardımıyla tedarikçi güvenilirliğinin analizi, Karadeniz Technical University, Mühendislik Fakültesi, 2015

Research Areas

Avesis Research Areas: Engineering and Technology
WoS Research Areas: Engineering
Scopus Research Areas: Management Science and Operations Research

Academic Positions

Assistant Professor, Manisa Celal Bayar University, İŞLETME FAKÜLTESİ, İŞLETME, 2025 - Present
Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2024 - 2025

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, 2023 - 2024
Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 2016 - 2023
Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, 2013 - 2015

Courses

Postgraduate
Production Management, Postgraduate, 2026 - 2027, 2025 - 2026
Quantitative Techniques, Postgraduate, 2025 - 2026
Undergraduate
Production and Operations Management, Undergraduate, 2026 - 2027, 2025 - 2026
Quantitative Methods, Undergraduate, 2025 - 2026, 2024 - 2025
Innovation Management, Undergraduate, 2025 - 2026
Decision Theory, Undergraduate, 2026 - 2027, 2025 - 2026
BİTİRME TASARIM PROJESİ, Undergraduate, 2023-2024
İŞ ETÜDÜ, Undergraduate, 2023-2024
YALIN ÜRETİM SİSTEMLERİ, Undergraduate, 2023-2024
MÜHENDİSLİK TASARIMI, Undergraduate, 2023-2024
BENZETİM, Undergraduate, 2023-2024

Articles

I. **A fuzzy optimization-oriented decision support model to examine key industry 4.0 strategies for building resilience against disruptions in a healthcare supply chain**
Kayhan B. M., YENİ F. B., ÖZÇELİK G., AYYILDIZ E.
ANNALS OF OPERATIONS RESEARCH, vol.361, no.3, pp.1619-1660, 2026 (SCI-Expanded, Scopus)

II. **Solving assembly line balancing problems with reinforcement learning**
BAYKASOĞLU A., ŞENOL M. E., KAYHAN B. M.
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.163, 2026 (SCI-Expanded, Scopus)

III. **Adaptive Time-Based Clustering for Optimizing Bus Fleet Management: A Case Study on İzmir's Public Transportation System**
DUDAKLI N., KAYHAN B. M., KUVVETLİ Ü.
Journal of Transportation and Logistics, vol.10, no.1, pp.362-387, 2025 (TRDizin)

IV. **Achieving tractable and reliable agriculture supply chain operations through Industry 4.0 tools to support Lean Six Sigma application**
YENİ F. B., GÜRSOY YILMAZ B., Kayhan B. M., ÖZÇELİK G., YILMAZ Ö. F.
International Journal of Industrial Engineering and Operations Management, vol.7, no.2, pp.117-149, 2025 (Scopus)

V. **Sustainable charger location and capacity strategies supporting green transformation process at gas stations for solving range anxiety: A real case study**
ÖZÇELİK G., Kayhan B. M., Kırali B., Güner R., Aydoğdu A. E., Sağır A.
RESEARCH IN TRANSPORTATION BUSINESS AND MANAGEMENT, vol.56, 2024 (SSCI, Scopus)

VI. **Reinforcement learning applications to machine scheduling problems: a comprehensive literature review**
Kayhan B. M., YILDIZ G.
JOURNAL OF INTELLIGENT MANUFACTURING, vol.34, no.3, pp.905-929, 2023 (SCI-Expanded, Scopus)

VII. **Determining and Prioritizing Main Factors of Supplier Reliability in Construction Industry**
KAYHAN B. M., ÇEBİ S., Kahraman C.
JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, vol.32, no.1-2, pp.111-134, 2019 (SCI-Expanded,

SSCI, Scopus)

VIII. **Bulanık Çıkarım Tabanlı Bir Model Yardımıyla Tedarikçi Güvenilirliğinin Analizi**
KAYHAN B. M., ÇEBİ S.
Gümüşhane Üniversitesi Sosyal Bilimler Enstitüsü Elektronik Dergisi, vol.5, no.11, pp.120-134, 2014 (TRDizin)

Books

I. **Sustainable Urban Logistics Evaluation in Smart Cities: A Multi-Criteria Group Decision-Making Approach Using the Hesitant Fuzzy Linguistic ARAS Method**
YENİ F. B., KAYHAN TÜRKMEN B. M., Yılmaz B. G.
in: Fuzzy Sets and Triangular Norms: Aggregation in Decision-Aided Intelligent Systems, CRC Press, pp.57-78, 2026

II. **ULUSLARARASI YÜK TAŞIMACILIĞI VE SÜRDÜRÜLEBİLİRLİK AÇISINDAN DEĞERLENDİRİLMESİ**
DUDAKLI N., KAYHAN B. M.
in: Sürdürülebilirlik Odaklı İş Modelleri: İşletmeler İçin Çevresel ve Ekonomik Stratejiler, Akpınar Enes; Şenol Mümin Emre, Editor, Eğitim Yayınevi, İstanbul, pp.111-124, 2023

Papers Presented at Peer-Reviewed Scientific Conferences

I. **İzmir'in Toplu Taşıma Sistemi: Otobüs Filosunun Optimizasyonu İçin Veri Madenciliği**
DUDAKLI N., KUVVETLİ Ü., KAYHAN B. M.
Yöneylem Araştırması ve Endüstri Mühendisliği 43. Ulusal Kongresi, Trabzon, Turkey, 2 - 04 October 2024, (Summary Text)

II. **Analyzing the factors that prevent people from using mobile banking via Fuzzy Analytic Hierarchy Process (FAHP)**
KAYHAN B. M., FELEKOĞLU B.
1st International Conference on Scientific and Academic Research, 10 December 2022, (Full Text)

III. **Forecasting Energy Performance of Buildings with Artificial Neural Networks**
KAYHAN B. M., ÖZMEHMET TAŞAN S.
1st International Conference on Scientific and Academic Research, 10 December 2022, (Full Text)

IV. **The Application of the Q-Learning Algorithm to Unrelated Parallel Machine Scheduling Problem**
KAYHAN B. M., YILDIZ G.
2nd International Conference on Applied Engineering and Natural Sciences, 10 March 2022, (Summary Text)

V. **Real Time Prediction of Customer Waiting Times Using an Articial Neural Network**
KAYHAN B. M., YILDIZ G.
Joint EURO/ALIO International Conference 2018 on Applied Combinatorial Optimization, 25 - 27 July 2018, (Summary Text)

VI. **Analyzing the Main Factors Affecting the Decision of Mobile Banking Adoption: Perspective of Non-Users**
KAYHAN B. M., FELEKOĞLU B.
2nd International Conference on Economics Business Management and Social Sciences, 10 - 14 May 2017, (Summary Text)

VII. **Analysis of the suplier reliability with a model based on fuzzy inference system**
KAYHAN B. M., ÇEBİ S.
2nd International Conference On Economics Busisness Management and Social Sciences, 11 - 12 May 2017, (Summary Text)

VIII. **Simulation Modeling of the Service System of a Dental Hospital**
KAYHAN B. M., YALÇINKAYA Ö., YILDIZ G.
LM-SCM 2016 XIV. International Logistics and Supply Chain Congress, 1 - 02 December 2016, (Full Text)

IX. **Bir üniversite diş hastanesi hizmet sisteminin simülasyon ile modellenmesi ve analizi**

KAYHAN B. M., YALÇINKAYA Ö., YILDIZ G.
Yöneylem Araştırması ve Endüstri Mühendisliği 36. Ulusal Kongresi Bildiri Özetleri Kitabı, Turkey, 13 - 15 July 2016, (Summary Text)

X. **A Study on Under Graduate Students' Internet Usage and Habits**
DURUCU M., ÇEBİ S., KAYHAN B. M.
Fourth International Conference on Industrial Engineering and Operations Management, Balvi, Latvia, 07 January 2014, (Summary Text)

XI. **Determining and prioritizing main factors of supplier reliability**
Kayhan B. M., ÇEBİ S.
Decision Making and Soft Computing - 11th International Fuzzy Logic and Intelligent Technologies in Nuclear Science Conference, FLINS 2014, Joao Pessoa, Paraiba, Brazil, 17 - 20 August 2014, pp.24-29, (Full Text)

XII. **DETERMINING AND PRIORITIZING MAIN FACTORS OF SUPPLIER RELIABILITY**
KAYHAN B. M., ÇEBİ S.
11th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science (FLINS), Joao Pessoa, Brazil, 17 - 20 August 2014, pp.24-29, (Full Text)

XIII. **Gençlerin İnternet Kullanım Alışkanlıkları ve Kullanılabilirlik Üzerine Bir Çalışma: Kütüphane Web Sayfalarının Kullanılabilirliği**
ÇEBİ S., DURUCU M., KAYHAN B. M.
19. Ulusal Ergonomi Kongresi, 27 September 2013, pp.525-534, (Full Text)

Metrics

Publication: 24
Citation (WoS): 176
Citation (Scopus): 195
H-Index (WoS): 3
H-Index (Scopus): 4

Non Academic Experience

SANKO HOLDİNG A.Ş., FİNANS UZMAN YARDIMCISI