

## Asst. Prof. SİNEM BOZKURT KESER

### Personal Information

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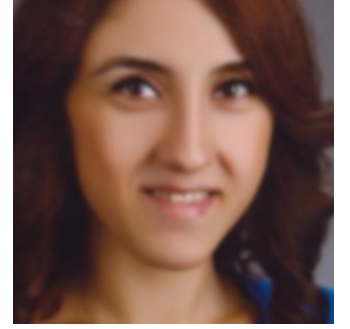
### International Researcher IDs

ORCID: 0000-0002-8013-6922

Publons / Web Of Science ResearcherID: ILP-3156-2023

ScopusID: 55382617200

Yoksis Researcher ID: 142358



### Education Information

Doctorate, Anadolu University, Faculty Of Engineering, Department Of Computer Engineering, Turkey 2013 - 2018

Postgraduate, Anadolu University, Faculty Of Engineering, Department Of Computer Engineering, Turkey 2010 - 2013

Undergraduate Double Major, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 2007 - 2010

Undergraduate, Eskisehir Osmangazi University, Fen Fakültesi, Matematik Ve Bilgisayar Bilimleri Bölümü, Turkey 2005 - 2009

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, RF BASED INDOOR POSITIONING SYSTEM, Anadolu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2017

Postgraduate, Trafik ağlarında çok ölçütlü rota planlaması, Anadolu University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2013

### Research Areas

algorithms, Database and Data Structures, Artificial Intelligence, Computer Learning and Pattern Recognition

### Academic Titles / Tasks

Assistant Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ BÖLÜMÜ, 2019 - Continues

Research Assistant, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ BÖLÜMÜ, 2010 - 2019

## Courses

Biçimsel Diller ve Otomata, Undergraduate, 2017 - 2018

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A gradient boosting-based mortality prediction model for COVID-19 patients**  
Keser S., KESKİN K.  
Neural Computing and Applications, vol.35, no.33, pp.23997-24013, 2023 (SCI-Expanded)
- II. **HELA: A novel hybrid ensemble learning algorithm for predicting academic performance of students**  
Keser S., Aghalarova S.  
EDUCATION AND INFORMATION TECHNOLOGIES, vol.27, no.4, pp.4521-4552, 2022 (SSCI)
- III. **Energy efficient routing and task scheduling for autonomous transfer vehicles in intra logistics**  
SARIÇİÇEK İ., Keser S., Cibi A., Ozdemir T., YAZICI A.  
Kuwait Journal of Science, vol.49, no.1, 2022 (SCI-Expanded)
- IV. **Response surface methodology to tune artificial neural network hyper-parameters**  
Bozkurt Keser S., Buruk Şahin Y.  
Expert Systems, vol.38, no.8, 2021 (SCI-Expanded)
- V. **Grid Search Optimised Artificial Neural Network for Open Stope Stability Prediction**  
ERDOĞAN ERTEN G., BOZKURT KESER S., YAVUZ M.  
International Journal of Mining, Reclamation and Environment, vol.35, pp.600-617, 2021 (SCI-Expanded)
- VI. **A Multi-Criteria Decision Strategy to Select a Machine Learning Method for Indoor Positioning System**  
YAZICI A., BOZKURT KESER S., GÜNAL S., Yayan U.  
INTERNATIONAL JOURNAL ON ARTIFICIAL INTELLIGENCE TOOLS, vol.27, no.5, 2018 (SCI-Expanded)
- VII. **An F-Score-Weighted Indoor Positioning Algorithm Integrating WiFi and Magnetic Field Fingerprints**  
BOZKURT KESER S., YAZICI A., GÜNAL S.  
MOBILE INFORMATION SYSTEMS, vol.2018, 2018 (SCI-Expanded)

## Articles Published in Other Journals

- I. **A SMART DATA-DRIVEN DIAGNOSIS FRAMEWORK FOR LOWER BACK PAIN ANOMALY DETECTION**  
BOZKURT KESER S., OKYAY S., ADAR N.  
CIT Review Journal, pp.37-42, 2024 (Peer-Reviewed Journal)
- II. **Yazılım Hata Tahmininde Farklı Alt Örneklem ve Üst Örneklem Yöntemlerinin Kıyaslanması**  
ŞEN KAYA Ö., BOZKURT KESER S.  
Bilgisayar Bilimleri ve Mühendisliği Dergisi, vol.16, no.2, pp.147-160, 2023 (Peer-Reviewed Journal)
- III. **Prediction of Survival of Heart Failure Patients: An Application of Classification-Based Machine Learning Algorithms**  
BOZKURT KESER S., KESKİN K.  
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.23, no.2, pp.362-369, 2023 (Peer-Reviewed Journal)
- IV. **Early stage diabetes prediction using decision tree-based ensemble learning model**  
SEN KAYA Ö., BOZKURT KESER S., KESKİN K.  
International Advanced Researches and Engineering Journal, vol.7, no.1, pp.62-71, 2023 (Peer-Reviewed Journal)
- V. **A Novel Article Recommendation System Empowered by the Hybrid Combinations of Content-Based State-of-the-Art Methods**  
KUŞ İ., BOZKURT KESER S., OKYAY S.  
International Journal of Applied Mathematics Electronics and Computers, vol.11, no.1, pp.1-12, 2023 (Peer-

Reviewed Journal)

- VI. **Explication of the Remote Education Through Department Statistics: ESOGU-CENG Case Study**  
CEYHAN M., KARTAL Y., BOZKURT KESER S., OKYAY S., ADAR N.  
International Journal of Multidisciplinary Studies and Innovative Technologies, vol.6, no.1, pp.71-76, 2022 (Peer-Reviewed Journal)
- VII. **Breast Cancer Diagnosis with Weighted Vote Based Ensemble Classification Algorithm**  
BOZKURT KESER S., KESKİN K.  
Mühendislik bilimleri ve araştırmaları dergisi (Online), vol.4, no.2, pp.112-120, 2022 (Peer-Reviewed Journal)
- VIII. **Application of AutoML Technique for Predicting Academic Performance of Students Öğrencilerin Akademik Performanslarının Tahmin Edilmesi için AutoML Tekniğinin Uygulanması**  
Aghalarova S., Keser S.  
El-Cezeri Journal of Science and Engineering, vol.9, no.2, pp.394-412, 2022 (Scopus)
- IX. **A comparison of machine learning algorithms for forecasting solar irradiance in Eskişehir, Turkey**  
Ayko O., BOZKURT KESER S.  
International Journal of Applied Mathematics Electronics and Computers, vol.9, no.4, pp.103-109, 2021 (Peer-Reviewed Journal)
- X. **Saldırı Tespit Sistemlerinde Topluluk Öğrenme Yöntemlerinin Kıyaslanması**  
KUŞ İ., BOZKURT KESER S., YOLAÇAN E. N.  
European Journal of Science and Technology, no.31, pp.725-734, 2021 (Peer-Reviewed Journal)
- XI. **Genetik Algoritma ile Eş Zamanlı Topla-Dağıt Araç Rotalama: İstanbul Anadolu Yakası için Bir Uygulama**  
BOZKURT KESER S., TOPRAK A., CİĞER F. E., DEMİRÖZ M., SARIÇİÇEK İ.  
Journal of the Institute of Science and Technology, vol.11, no.3, pp.1686-1699, 2021 (Peer-Reviewed Journal)
- XII. **Önerilen Yapay Sinir Ağı Algoritması ile Ortaokul Öğrencilerin Akademik Performansının Tahmini**  
AGHALAROVA S., BOZKURT KESER S.  
Veri Bilimi, vol.4, no.2, pp.19-32, 2021 (Peer-Reviewed Journal)
- XIII. **The Development of a Novel Content-Based Academic Paper Recommendation System**  
Öz V. K., Deniz E., Bozkurt Keser S., Kartal Y., Okyay S.  
Eskişehir Türk Dünyası Uygulama ve Araştırma Merkezi Bilişim Dergisi, vol.2, no.2, pp.6-11, 2021 (Peer-Reviewed Journal)
- XIV. **Meme Kanseri Tümörlerinin Derin Öğrenme Algoritmaları ile Sınıflandırılması**  
ÖZGÜR S. N., BOZKURT KESER S.  
Türk Doğa ve Fen Dergisi, vol.10, 2021 (Peer-Reviewed Journal)
- XV. **İçerik tabanlı bilimsel yayın öneri sisteminde benzerlik ölçümlerinin incelenmesi**  
DENİZ E., ÖZ V. K., BOZKURT KESER S., OKYAY S., KARTAL Y.  
DÜMF Mühendislik Dergisi, vol.12, no.12, pp.221-228, 2021 (Peer-Reviewed Journal)
- XVI. **İÇ LOJİSTİKTE OTONOM ROBOTLAR İÇİN GÖREV PLANLAMASI**  
BOZKURT KESER S., SARIÇİÇEK İ., YAZICI A.  
Eskişehir Osmangazi Üniversitesi Mühendislik ve Mimarlık Fakültesi Dergisi, vol.28, no.2, pp.94-106, 2020 (Peer-Reviewed Journal)
- XVII. **A MULTI CRITERIA HEURISTIC ALGORITHM FOR PERSONALIZED ROUTE PLANNING**  
BOZKURT KESER S., YAZICI A., GÜNAL S.  
Anadolu University Journal of Science and Technology-A Applied Sciences and Engineering, vol.17, no.2, pp.299-313, 2016 (Peer-Reviewed Journal)
- XVIII. **A priori verification and validation study of RfKON database**  
BOZKURT KESER S., Yayan U., YAZICI A., GÜNAL S.  
International Journal of Computer Science: Theory and Application, vol.5, pp.20-27, 2016 (Peer-Reviewed Journal)
- XIX. **A Hybrid Algorithm for Automated Guided Vehicle Routing Problem**  
BOZKURT KESER S., SÖYLEYİCİ C.  
International Journal of Intelligent Systems and Applications in Engineering, vol.4, pp.158-161, 2016 (Peer-Reviewed Journal)

## Books & Book Chapters

### I. İç ortam Konumlandırma Sistemleri ve Konum Tabanlı Uygulamalar

YAZICI A., BOZKURT KESER S., YAYAN U.

in: Yapay Zeka ve Büyük Veri: Endüstri 4.0 ve Yapay Zeka, Sağiroğlu Şeref, Demirezen Mustafa Umut, Yazıcı Ahmet, Editor, Nobel Yayınevi, pp.183-214, 2021

## Refereed Congress / Symposium Publications in Proceedings

### I. Adaptive Large Neighborhood Search Approach for Electric Vehicle Routing Problem

Ünal Y., Sarıççek İ., Bozkurt Keser S., Yazıcı A.

25.Otomatik Kontrol Ulusal Konferansı (TOK 2024), Konya, Turkey, 12 - 14 September 2024, pp.63-68

### II. Energy Efficient Path Analysis From the Perspective of Electric Vehicle Routing

Polat A. A., Bozkurt Keser S., Sarıççek İ., Yazıcı A.

25.Otomatik Kontrol Ulusal Konferansı (TOK 2024), Konya, Turkey, 12 - 14 September 2024, pp.88-93

### III. Makine Öğrenmesi Algoritmaları ile Yazılım Hata Tahmini

ŞEN Ö., BOZKURT KESER S.

3 th International Congress of Engineering and Natural Sciences Studies, 24 - 25 May 2023

### IV. Doğal Dil İşleme Tekniklerinin Kullanımı ile Yeni Bir İçerik Tabanlı Akademik Makale Öneri Sistemi

KUŞ İ., BOZKURT KESER S.

Uluslararası Bilişim Kongresi 2023(IIC2023), Turkey, 20 March 2023

### V. Explication of the Remote Education Through Department Statistics: ESOGU-CENG Case Study

Ceyhan M., Kartal Y., Bozkurt Keser S., Okyay S., Adar N.

ISAS2022 - 5th International Symposium on Innovative Approaches in Smart Technologies, Eskişehir, Turkey, 27 May 2022

### VI. Comparison of Classification Algorithms On Early Stage Diabetes Risk Prediction Dataset By Using Orange Data Mining Software

BOZKURT KESER S.

V. INTERNATIONAL SCIENTIFIC AND VOCATIONAL STUDIES CONGRESS - (BILMES EN 2020), 12 - 15 December 2020

### VII. Prediction Of Secondary School Student Academic Performance Using Data Mining Algorithms

BOZKURT KESER S.

V. INTERNATIONAL SCIENTIFIC AND VOCATIONAL STUDIES CONGRESS - (BILMES EN 2020), 12 - 15 December 2020

### VIII. A Two-Phase Indoor Positioning Algorithm using the Data of Wi-Fi and Magnetic Field

YAZICI A., BOZKURT KESER S., bolat u.

III International Conference on Engineering and Natural Sciences (ICENS-2017), Budapest, Hungary, 3 - 07 May 2017, pp.33

### IX. Performance Comparison of Back Propagation Neural Network and Extreme Learning Machine for Indoor Positioning System

BOZKURT KESER S., YAZICI A., GÜNAL S.

III International Conference on Engineering and Natural Sciences (ICENS-2017), Budapest, Hungary, 3 - 07 May 2017, pp.363

### X. A comparison of tree-based algorithms for a hybrid indoor positioning dataset

BOZKURT KESER S., YAZICI A., GÜNAL S.

3rd International Conference on Engineering and Natural Sciences (ICENS 2017), Budapest, Hungary, 3 - 07 May 2017, pp.5

### XI. Integration of Classification Algorithms for Indoor Positioning System

YAZICI A., BOZKURT KESER S., GÜNAL S.

2017 International Conference on Computer Science and Engineering (UBMK), Antalya, Turkey, 5 - 08 October

2017, pp.267-270

- XII. **A Hybrid Fingerprint Based Indoor Positioning with Extreme Learning Machine**  
BOZKURT KESER S., YAZICI A., GÜNAL S.  
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XIII. **A HYBRID APPROACH FOR INDOOR POSITIONING**  
BOZKURT KESER S., YAYAN U., YAZICI A.  
3rd International Conference on Advanced Technology & Sciences (ICAT'16), Konya, Turkey, 1 - 03 September 2016, pp.224-227
- XIV. **A HYBRID ALGORITHM FOR AUTOMATED GUIDED VEHICLE ROUTING PROBLEM**  
SÖYLEYİCİ C., BOZKURT KESER S., YAZICI A.  
3rd International Conference on Advanced Technology & Sciences (ICAT'16), Konya, Turkey, 1 - 03 September 2016, pp.166-169
- XV. **A Case Study of Optimal Decision Tree Construction for RFKON Database**  
BOZKURT KESER S., YAYAN U.  
International Symposium on Innovations in Intelligent Systems and Applications (INISTA), Sinaia, Romania, 2 - 05 August 2016
- XVI. **Dijkstra Algoritması ile Enerji Verimli Tren İşletimi**  
KESKİN K., KARAMANCIOĞLU A., BOZKURT KESER S.  
Otomatik Kontrol Türk Milli Komitesi Ulusal Toplantısı (TOK2015), Denizli, Turkey, 10 - 12 September 2015, pp.999-1004
- XVII. **A Survey on RF Mapping for Indoor Positioning**  
BOZKURT KESER S., YAZICI A., GÜNAL S., YAYAN U.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.2066-2069
- XVIII. **A Comparative Study on Machine Learning Algorithms for Indoor Positioning**  
BOZKURT KESER S., ELİBOL SEÇİL G., GÜNAL S., YAYAN U.  
International Symposium on Innovations in Intelligent Systems and Applications (INISTA 2015), Madrid, Spain, 2 - 04 September 2015, pp.47-54
- XIX. **A Novel Multi-Sensor and Multi-Topological Database for Indoor Positioning on Fingerprint Techniques**  
BOZKURT KESER S., YAZICI A., GÜNAL S., YAYAN U., İNAN F.  
International Symposium on Innovations in Intelligent Systems and Applications (INISTA 2015), Madrid, Spain, 2 - 04 September 2015, pp.55-61
- XX. **Classifier Selection for RF Based Indoor Positioning**  
BOZKURT KESER S., GÜNAL S., YAYAN U., BAYAR V.  
23rd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.791-794
- XXI. **Trafik Sinyal Kontrol Probleminin Sezgisel Algoritma ile Çözülmesi**  
KESKİN K., YAZICI A., BOZKURT KESER S., BİLGİÇ Ş., KARACASU M.  
Otomatik Kontrol Türk Milli Komitesi Ulusal Toplantısı (TOK2012), Niğde, Turkey, 11 - 13 October 2012, pp.779-783
- XXII. **A multicriteria route planning approach considering driver preferences**  
BOZKURT KESER S., YAZICI A., KESKİN K.  
2012 IEEE International Conference on Vehicular Electronics and Safety (ICVES 2012), Istanbul, Turkey, 24 - 27 July 2012, pp.324-328

## Supported Projects

Yazıcı A., Sarıççek İ., Yayan U., Karacasu M., Akalın K. B., Bozkurt Keser S., Horizon Europe Project, OPEVA - Optimization of Electric Vehicle Autonomy, 2023 - 2025

BOZKURT KESER S., SARIÇİÇEK İ., ÖZ V., DENİZ E., Project Supported by Higher Education Institutions, İçerik-tabanlı Yeni Bir Akademik Makale Öneri Sistemi, 2021 - 2024

## **Metrics**

Publication: 52

Citation (WoS): 122

Citation (Scopus): 183

H-Index (WoS): 5

H-Index (Scopus): 6

## **Non Academic Experience**

ASUS