

## Asst. Prof. KEMAL KESKİN

### Personal Information

**Email:** kkeskin@ogu.edu.tr

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### International Researcher IDs

ScholarID: MISEUUUAAAAJ

ORCID: 0000-0002-3969-2396

Publons / Web Of Science ResearcherID: R-6015-2016

ScopusID: 55382604600

Yoksis Researcher ID: 18402

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Tren dinamiğinin enerji-optimal denetimi, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Elektrik-Elektronik Mühendisliği Bölümü, 2016

Postgraduate, Specification and Formal Verification of Fuzzy Information Processing for the Case of Edge Detection, Northeastern University, Electrical And Computer Engineering, 2009

### Research Areas

Electrical and Electronics Engineering

### Academic Titles / Tasks

Assistant Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, 2017 - Continues

Research Assistant, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, 2010 - 2017

### Academic and Administrative Experience

Head of Department, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, 2019 - Continues

### Courses

Linear Algebra, Undergraduate, 2020 - 2021

Introduction to Linear Transformations, Postgraduate, 2020 - 2021, 2018 - 2019, 2017 - 2018  
Fundamentals of Control Systems, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018  
Fundamentals of Control Systems, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018  
Introduction to Electrical Electronics Engineering, Undergraduate, 2017 - 2018  
Linear Algebra, Undergraduate, 2017 - 2018  
Optimizasyon ve Kontrol, Postgraduate, 2017 - 2018  
Circuit Analysis II, Undergraduate, 2018 - 2019, 2017 - 2018  
Engineering Graphics, Undergraduate, 2016 - 2017

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

- I. **Energy-Efficient Train Operation Optimization in Istanbul Metro Network Considering Variable Passenger Numbers**  
Yildiz A., ARIKAN O., KESKİN K.  
Transportation Research Record, vol.2678, no.7, pp.224-244, 2024 (SCI-Expanded)
- II. **Fuel constrained combined heat and power dispatch problem using marine predators algorithm**  
KESKİN K., URAZEL B.  
Electrical Engineering, vol.105, no.6, pp.4011-4023, 2023 (SCI-Expanded)
- III. **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)
- IV. **A new solution approach for non-convex combined heat and power economic dispatch problem considering power loss**  
URAZEL B., KESKİN K.  
Energy, vol.278, 2023 (SCI-Expanded)
- V. **Traction energy optimization considering comfort parameter: A case study in Istanbul metro line**  
Yildiz A., ARIKAN O., KESKİN K.  
Electric Power Systems Research, vol.218, 2023 (SCI-Expanded)
- VI. **Energy-Efficient Train Operation Using Nature-Inspired Algorithms**  
KESKİN K., KARAMANCIOĞLU A.  
JOURNAL OF ADVANCED TRANSPORTATION, pp.1-12, 2017 (SCI-Expanded)

## Articles Published in Other Journals

- I. **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)
- II. **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)
- III. **Modeling of an electrically driven train motion in a simulation environment and validation of the model on a real line**  
Yıldız A., KESKİN K.  
Akıllı Ulaşım Sistemleri ve Uygulamaları Dergisi (Online), vol.6, no.1, pp.62-74, 2023 (Peer-Reviewed Journal)
- IV. **SOC ESTIMATION FOR BATTERY OF ELECTRIC VEHICLES**  
Keskin B., SORA GUNAL E., urazel b., Keskin K.  
Nicel bilimler dergisi (Online), vol.4, no.2, pp.161-175, 2022 (Peer-Reviewed Journal)

- V. **Breast Cancer Diagnosis with Weighted Vote Based Ensemble Classification Algorithm**  
BOZKURT KESER S., KESKİN K.  
Mühendislik bilimleri ve arařtırmaları dergisi (Online), vol.4, no.2, pp.112-120, 2022 (Peer-Reviewed Journal)
- VI. **Position Control of Quadrotor using Firefly Algorithm**  
Keskin B., KESKİN K.  
El-Cezeri Journal of Science and Engineering, vol.9, no.2, pp.554-566, 2022 (Scopus)
- VII. **Traction Control and Total Driving Force Distribution Strategy for Electric Vehicles with Four in Wheel Motors based on PD-Fuzzy Control** **Çekiř Kontrolü ve Dört Tekerlek Motorlu Elektrikli Araçlar için PD-Bulanık Kontrollü Toplam Sürüş Kuvveti Dağıtım Stratejisi**  
Shamia I. R. H., KESKİN K.  
El-Cezeri Journal of Science and Engineering, vol.9, no.1, pp.65-85, 2022 (Scopus)
- VIII. **A Hybrid Solution Approach for Electric Vehicle Routing Problem with Soft Time-Windows**  
URAZEL B., KESKİN K.  
El-Cezeri Fen ve Mühendislik Dergisi, vol.8, no.2, pp.994-1006, 2021 (Scopus)
- IX. **Fuzzy control of dual storage system of an electric drive vehicle considering battery degradation**  
KESKİN K., URAZEL B.  
An International Journal of Optimization and Control: Theories Applications (IJOCTA), vol.11, no.1, pp.30-40, 2021 (ESCI)
- X. **Hybrid Control Of DC \u2013 DC Buck Boost Converter**  
SEZEN A., KESKİN K.  
Demiryolu Mühendisliđi, vol.0, no.14, pp.99-109, 2021 (Peer-Reviewed Journal)
- XI. **Electric Drive Vehicle Model and Simulation with MATLAB**  
URAZEL B., KESKİN K.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.10, no.4, pp.2461-2473, 2020 (Peer-Reviewed Journal)
- XII. **A Meta Heuristic Approach for Optimal Train Control**  
KESKİN K., KARAMANCIOĞLU A.  
Girne American University Journal of Social and Applied Sciences, vol.7, no.11, pp.51-56, 2015 (Peer-Reviewed Journal)

## **Books & Book Chapters**

- I. **Lineer Cebir: Teori ve Octave Uygulamaları**  
GÜLMEZOĞLU M. B., KESKİN K.  
Eskişehir Osmangazi Üniversitesi Basımevi, Eskişehir, 2021

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Performance Improvement of a Fixed-Wing UAV Using Model Predictive Control**  
Keskin K., Yıldız A. T.  
International Symposium on Unmanned Systems and The Defense Industry, Madrid, Spain, 30 May - 01 June 2022, pp.283-289
- II. **Validation of The Single Train Simulation Model With a Real-World Case Study**  
Yildiz A., ARIKAN O., KESKİN K.  
2022 IEEE International Conference on Electrical, Computer, and Energy Technologies, ICECET 2022, Prague, Czech Republic, 20 - 22 July 2022
- III. **PID Control Design of An Active Suspension System: Big Bang Big Crunch Approach**  
KESKİN K.  
ICENTE 2020, Konya, Turkey, 19 - 21 November 2020
- IV. **Energy Storage Devices for Plug-in Electric Vehicles**

KESKİN K.

ICENTE 2020, 19 - 21 November 2020

- V. **An integer programming model for an energy optimal train operation**  
KESKİN K., KARAMANCIOĞLU A.  
International Conference on Engineering Technologies, Konya, Turkey, 7 - 09 December 2017, vol.1, pp.288-291
- VI. **Train Motion Dynamic Model Choices**  
KESKİN K., KARAMANCIOĞLU A.  
International Symposium on Electrical Railway Transportation Systems, Eskişehir, Turkey, 27 - 28 October 2017, vol.1, pp.27-29
- VII. **Energy Optimal Quadrotor Stabilization Using PD control obtained by BB-BC Algorithm**  
AŞKIN B., KESKİN K., DINDİŞ G., KARAMANCIOĞLU A.  
", International Conference of Applied Sciences, Engineering and Mathematics, Struga-Ohrid, Macedonia, 5 - 07 May 2017, vol.1, pp.91
- VIII. **A Metaheuristic Approach for Optimal Train Control**  
KESKİN K., KARAMANCIOĞLU A.  
2nd International Symposium on Engineering, Artificial Intelligence and Applications, İstanbul, Turkey, 5 - 07 November 2014
- IX. **Application of Firefly Algorithm to Train Operation**  
KESKİN K., KARAMANCIOĞLU A.  
8th IEEE International Conference on Intelligent Systems (IS), Sofija, Bulgaria, 4 - 06 September 2016, pp.692-697
- X. **Energy Efficient Motion Control for a Light Rail Vehicle Using The Big Bang Big Crunch Algorithm**  
KESKİN K., KARAMANCIOĞLU A.  
14th IFAC Symposium on Control in Transportation Systems (CTS), İstanbul, Turkey, 18 - 20 May 2016, vol.49, pp.442-446
- XI. **The Usage of Conditioned BCG Signals for the Detection of Fundamental Cardiac Arrhythmia Diseases**  
ERGİN S., KESKİN K.  
2015 International Symposium on Innovations in Intelligent Systems and Applications, Madrid, Spain, 2 - 04 October 2015, pp.238-241
- XII. **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
- XIII. **Dijkstra Algoritması ile Enerji Verimli Tren İşletmesi**  
KESKİN K., KARAMANCIOĞLU A., BOZKURT KESER S.  
TOK 2015, Turkey, 10 - 12 September 2015
- XIV. **The usage of conditioned BCG signals for the detection of fundamental cardiac arrhythmia diseases**  
ERGİN S., KESKİN K.  
2015 International Symposium on Innovations in Intelligent Systems and Applications (INISTA), Madrid, Spain, 2 - 04 September 2015, pp.238-241
- XV. **Optimal Rail Vehicle Operation With Multiple Speed Constraints**  
KESKİN K., KARAMANCIOĞLU A.  
International Congress on Advanced Railway Engineering (IC-ARE'15), İstanbul, Turkey, 2 - 04 March 2015, pp.381-385
- XVI. **A Hybrid Optimization Algorithm for Energy Efficient Train Operation**  
KESKİN K., KARAMANCIOĞLU A.  
International Symposium on Innovations in Intelligent Systems and Applications (INISTA 2015), Madrid, Spain, 2 - 04 September 2015, pp.93-98
- XVII. **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-

**XVIII. 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**

KESKİN K., YILDIZ A. T., Project Supported by Higher Education Institutions, Model Öngörülü Kontrol Yöntemi ile Sabit Kanatlı İnsansız Hava Aracının Çok Amaçlı Yörünge Optimizasyonu, 2022 - 2022

Keskin K., Urazel B., Project Supported by Higher Education Institutions, Elektrikli Araç Dinamiğinin MATLAB Ortamında Gerçeklenmesi, 2020 - 2021

KESKİN K., KARAMANCIOĞLU A., Project Supported by Higher Education Institutions, Enerji Verimli Tren Kontrolü, 2015 - 2016

**Scientific Refereeing**

TUBITAK Project, 1501 - Industry R &amp; D Projects Support Program, Tübitak, Turkey, May 2022

**Scientific Consultations**

Metro İstanbul A.Ş., Scientific Consultancy, Eskişehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, Turkey, 2021 - 2022

**Metrics**

Publication: 38

Citation (WoS): 41

Citation (Scopus): 60

H-Index (WoS): 3

H-Index (Scopus): 4

**Congress and Symposium Activities**

ISUDEF 2022, Attendee, Madrid, Spain, 2022

**Non Academic Experience**

Optim Obermeyer Proje