



Lect. FURKAN BALCI

Personal Information

Office Phone: [+90 312 202 3946](tel:+903122023946)

Email: furkanbalci@gazi.edu.tr

Web: <https://avesis.gazi.edu.tr/furkanbalci>

International Researcher IDs

ScholarID: Sj89eYsAAAAJ

ORCID: 0000-0002-3160-1517

Publons / Web Of Science ResearcherID: ABD-8353-2021

ScopusID: 58117015100

Yoksis Researcher ID: 328672



Education Information

2023 - Continues	Postgraduate, Hoca Ahmet Yesevi Türk Kazak Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Kazakhstan
2023 - Continues	Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Turkey
2016 - 2022	Associate Degree, Anadolu University, Open Education Faculty, Department Of Foreign Trade, Turkey
2018 - 2020	Postgraduate, Nuh Naci Yazgan University, Institute Of Science, Elektrik-Elektronik Mühendisliği (YI) (Tezli), Turkey
2015 - 2018	Undergraduate, Erciyes University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey

Dissertations

2020	Uzun kısa süreli bellek algoritması kullanılarak eeg tabanlı kimliklendirme sistemi tasarımı, Nuh Naci Yazgan University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), Postgraduate
------	--

Research Areas

Computer Sciences, Biomedical Engineering, Electrical and Electronics Engineering, Engineering and Technology

Academic Titles / Tasks

2020 - Continues	Lecturer, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği
------------------	--

Courses

2021 - 2022	Elektronik Lab-II, Undergraduate
2021 - 2022	Haberleşme Sistemleri Lab-II, Undergraduate

2021 - 2022	Haberleşme Sistemleri Lab, Undergraduate
2021 - 2022	Sayısal Tasarım Lab, Undergraduate
2020 - 2021	Elektronik Lab-I, Undergraduate
2020 - 2021	Devre Analizi Lab-I, Undergraduate

Taught Courses And Trainings

2022 - 2022	Balcı F., Python Programlama - 66. Dönem
2021 - 2022	Balcı F., Python Programlama - 65.Dönem
2021 - 2021	Balcı F., Python Programlama - 64. Dönem

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Hybrid Elmann BiLSTM Based Brain Tumor Classification on Augmented Data with Combination of Variational Auto-encoders and Generative Adversarial Network**
Balcı F.
TRAITEMENT DU SIGNAL, vol.41, no.2, pp.1-10, 2024 (SCI-Expanded)
- II. **Detection of melanoma with hybrid learning method by removing hair from dermoscopic images using image processing techniques and wavelet transform**
SUIÇMEZ Ç., KAHRAMAN H. T., Suicmez A., YILMAZ C., BALCI F.
BIOMEDICAL SIGNAL PROCESSING AND CONTROL, vol.84, 2023 (SCI-Expanded)
- III. **DM-EEGID: EEG-Based Biometric Authentication System Using Hybrid Attention-Based LSTM and MLP Algorithm**
BALCI F.
TRAITEMENT DU SIGNAL, vol.40, no.1, pp.65-79, 2023 (SCI-Expanded)

Articles Published in Other Journals

- I. **Faster R-CNN structure for computer vision- based road pavement distress detection**
Balcı F., Yilmaz S.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, no.2, pp.701-710, 2023 (ESCI)
- II. **Improving the Prediction Accuracy in Deep Learning-based Cryptocurrency Price Prediction**
Balcı F.
Academic Platform journal of engineering and smart systems (Online), vol.11, no.2, pp.1-16, 2023 (Peer-Reviewed Journal)
- III. **A Hybrid Attention-based LSTM-XGBoost Model for Detection of ECG-based Atrial Fibrillation**
Balcı F.
Gazi University Journal of Science Part A: Engineering and Innovation, vol.8, pp.1-12, 2022 (Peer-Reviewed Journal)
- IV. **LSTM ile EEG Tabanlı Kimliklendirme Sistemi Tasarımı**
Balcı F., Oralhan Z.
Avrupa Bilim ve Teknoloji Dergisi, vol.1, pp.135-141, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Performance of Machine Learning-Based Network Slicing Methods In 5G and Beyond Communication**
Balcı F.
2 nd International Karatekin Science and Technology Conference, Çankırı, Turkey, 21 - 22 December 2023, pp.4-9
- II. **A Novel Attention-based LSTM-XGBoost Network for Classification of Atrial Fibrillation Signals**

Balcı F.

International Conference on Artificial Intelligence and Applied Mathematics in Engineering (ICAIAME 2022), Baku, Azerbaijan, 20 - 22 May 2022, pp.1-3

III. Dispersion Entropy-based Fuzzy Classification for Motor Imagery Electroencephalogram

Balcı F.

International Conference on Artificial Intelligence and Applied Mathematics in Engineering (ICAIAME 2022), Baku, Azerbaijan, 20 - 22 May 2022, pp.1-3

IV. Classification Of Neurodegenerative Diseases With Hybrid Deep Learning And Machine Learning Method For Detection Using Gait Rhythm Signal

Demirel A. N., Demir E., Alpağut B., Balcı F.

International Conference on Artificial Intelligence and Applied Mathematics in Engineering (ICAIAME 2022), Baku, Azerbaijan, 21 - 22 May 2022, pp.1-3

V. EEG Based Identification System Design via LSTM

BALCI F., ORALHAN Z.

Human-Computer Interaction, Optimization and Robotic Applications, Ankara, Turkey, 26 - 27 July 2020

Supported Projects

2022 - 2023	Lidar Ve Yapay Zekâ Tabanlı Düşman Tespitiyle Manyetik Fırlatıcının Hedeflendirilmesi, TUBITAK Project
2022 - 2023	Optimizasyon Algoritmaları Tabanlı Elektromanyetik Fırlatıcı Atış Sapması Optimizasyonu, TUBITAK Project
2022 - 2023	Otonom Sürüş İçin Derin Öğrenme-Makine Öğrenmesi Tabanlı Lidar Ve Görüntü Verileriyle Nesne Tespit Sisteminin Tasarlanması, TUBITAK Project
2022 - 2023	Yapay Zeka Tabanlı El Sırtı Damar Görüntüleriyle Biyometrik Kişi Tanımlama Sistemi, TUBITAK Project
2022 - 2023	Elektroensefalografi (EEG) İşaretiyle Yapay Zeka Tabanlı Kişi Kimlik Tespiti, TUBITAK Project

Activities in Scientific Journals

2021 - 2021	Gazi Üniversitesi Fen Bilimleri Dergisi Part: C Tasarım ve Teknoloji, Technical Redactor
-------------	--

Scientific Refereeing

March 2023	International Journal of Automotive Science and Technology, Other Indexed Journal
June 2022	Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, Other Indexed Journal

Metrics

Publication: 12

Citation (WoS): 6

Citation (Scopus): 7

H-Index (WoS): 2

H-Index (Scopus): 1

Scholarships

2020 - Continues	2211 - Yurt İçi Lisansüstü Burs Programı, TUBITAK
------------------	---