

Asst. Prof. FATMA KÜÇÜK

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: HGE-7126-2022

ScopusID: 57203171214

Yoksis Researcher ID: 191658

Biography

I received my PhD in Computer Engineering from Ankara Yıldırım Beyazıt University and obtained an MSc degree in Software Engineering from the University of Hertfordshire, UK. I got a scholarship from the Ministry of Education in 2008, which covers graduate education abroad. I was ranked 115th in Türkiye, and 1st in Gebze in the university entrance exam in 2002.

I am currently working as an assistant professor in the Software Engineering Department at AYBU. Previously, I worked as a research assistant in the Computer Engineering Department at the same university. I was appointed as head of the Department of Software Engineering from 2021 through 2024.

My research interests are primarily focused on hyperspectral image processing, target detection, and anomaly detection in hyperspectral images. I have contributed to several publications in the form of articles and conference papers.

Education Information

Doctorate, Ankara Yıldırım Beyazıt University, Mühendislik ve Doğa Bilimleri Fakültesi, Bilgisayar Mühendisliği, Turkey
2013 - 2020

Postgraduate, University of Hertfordshire, Software Engineering, United Kingdom 2010 - 2011

Research Areas

Computer Sciences

Academic Titles / Tasks

Assistant Professor, Ankara Yıldırım Beyazıt University, Mühendislik ve Doğa Bilimleri Fakültesi, Yazılım Mühendisliği,
2021 - Continues

Research Assistant, Ankara Yıldırım Beyazıt University, Mühendislik ve Doğa Bilimleri Fakültesi, Bilgisayar Mühendisliği,
2012 - 2021

Academic and Administrative Experience

Head of Department, Ankara Yıldırım Beyazıt University, Mühendislik ve Doğa Bilimleri Fakültesi, Yazılım Mühendisliği,
2021 - 2024

Courses

Computer Programming II, Undergraduate, 2023 - 2024
ENGINEERING APPLICATION ON SITE, Undergraduate, 2023 - 2024
Introduction to Software Engineering, Undergraduate, 2023 - 2024
Probability and Statistics, Undergraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Hybrid anomaly detection method for hyperspectral images**
KÜÇÜK F.
Signal, Image and Video Processing, vol.17, no.6, pp.2755-2761, 2023 (SCI-Expanded)
- II. **Sparse and low-rank matrix decomposition-based method for hyperspectral anomaly detection**
Kucuk F., Töreyn B. U., Celebi F. V.
Journal of Applied Remote Sensing, vol.13, no.1, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. **HYPERSPECTRAL ANOMALY DETECTION WITH AN IMPROVED APPROACH: INTEGRATION OF GO DECOMPOSITION ALGORITHM AND LAPLACIAN MATRIX MODIFIER**
KÜÇÜK F.
Journal of scientific reports-A (Online), vol.2024, no.56, pp.36-44, 2024 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Anomaly detection in hyperspectral data with matrix decomposition**
KÜÇÜK F., TÖREYİN B. U., ÇELEBİ F. V.
2018 26th Signal Processing and Communications Applications Conference (SIU), Izmir, Turkey, 2 - 05 May 2018

Metrics

Publication: 4
Citation (Scopus): 8
H-Index (Scopus): 1

Scholarships

YLSY, Ministry of Education, 2008 - 2011

Non Academic Experience

University, ANKARA YILDIRIM BEYAZIT ÜNİVERSİTESİ, BİLGİSAYAR MÜHENDİSLİĞİ