

## Res. Asst. FATMA NUR ORTATAŞ

### Personal Information

**Office Phone:** [+90 354 242 1001](tel:+903542421001) Extension: 1919

**Email:** [f.nur.ortatas@bozok.edu.tr](mailto:f.nur.ortatas@bozok.edu.tr)

**Web:** <https://avesis.bozok.edu.tr/1914>

**Address:** [f.nur.ortatas@yobu.edu.tr](mailto:f.nur.ortatas@yobu.edu.tr) [f.nur.ortatas@bozok.edu.tr](mailto:f.nur.ortatas@bozok.edu.tr)

### International Researcher IDs

ORCID: 0000-0001-7897-9958

Yoksis Researcher ID: 356894

### Education Information

Doctorate, Tokat Gaziosmanpaşa University, Turkey 2023 - Continues

Postgraduate, Yozgat Bozok University, Lisansüstü Eğitim Enstitüsü, Elektrik-Elektronik Mühendisliği, Turkey 2020 - 2022

Undergraduate, Yozgat Bozok University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği, Turkey 2018 - 2020

Associate Degree, Ataturk University, Açıköğretim Fakültesi, İş Sağlığı Ve Güvenliği, Turkey 2017 - 2019

Undergraduate Minor, Erciyes University, Mühendislik Fakültesi, Turkey 2012 - 2014

Undergraduate, Erciyes University, Mühendislik Fakültesi, Biyomedikal Mühendisliği, Turkey 2009 - 2014

### Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Pattern Recognition and Image Processing, Software, Biomedical Image Processing

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

- Sugar beet farming goes high-tech: a method for automated weed detection using machine learning and deep learning in precision agriculture**  
ORTATAŞ F. N., Ozkaya U., ŞAHİN M. E., ULUTAŞ H.  
Neural Computing and Applications, vol.36, no.9, pp.4603-4622, 2024 (SCI-Expanded)

### Articles Published in Other Journals

- Solution of Real-Time Traffic Signs Detection Problem for Autonomous Vehicles by Using YOLOV4 And Haarcascade Algorithms**  
Ortataş F. N., Çetin E.  
International Journal of Automotive Science and Technology, vol.7, no.2, pp.125-140, 2023 (Scopus)
- Elektrikli ve Otonom Araçlar için Sürüş Kontrol Kartının Geliştirilmesi**  
Ortataş F. N., Çetin E., Aydoğan M., Yalçın E.  
Bozok Journal of Engineering and Architecture, vol.1, no.2, pp.1-7, 2023 (Peer-Reviewed Journal)
- Elektrikli ve Otonom Araçlarda Makine Öğrenmesi Kullanarak Trafik Levhaları Tanıma ve Simülasyon**

## Uygulamas1

ORTATAŞ F. N., ÇETİN E.

El-Cezeri Fen ve Mühendislik Dergisi, vol.8, no.3, pp.1081-1092, 2021 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

- I. **A New Approach to Determine the Milk Lines of Silage Corn Using Image Processing Techniques**  
Şahin M. E., Ulutaş H., Ortataş F. N.  
8. Uluslararası Bilgisayar Bilimleri ve Mühendisliği Konferansı (UBMK 2023), Burdur, Turkey, 13 - 15 September 2023
- II. **A Novel Method of Obstacle Detection Using Stereo Vision for Unmanned Systems**  
ORTATAŞ F. N., ŞAHİN M. E., ULUTAŞ H., Yakut U., Koç Y.  
2023 11th International Scientific Conference COMPUTER SCIENCE, Sofya, Bulgaria, 18 - 20 September 2023
- III. **Performance Evaluation of YOLOv5, YOLOv7, and YOLOv8 Models in Traffic Sign Detection**  
Ortataş F. N., Kaya M.  
2023 8th International Conference on Computer Science and Engineering (UBMK), Burdur, Turkey, 13 - 15 September 2023, pp.151-156
- IV. **REAL-TIME TRAFFIC SIGN DETECTION WITH YOLOV6 MODEL**  
Şahin M. E., Ortataş F. N.  
5. International Anatolian Scientific Research Congress, Hakkari, Turkey, 21 - 23 July 2023, pp.1001-1010
- V. **Autonomous Mapping and Spraying in Precision Agriculture using Unmanned Ground Vehicles**  
ORTATAŞ F. N., ULUTAŞ H., ŞAHİN M. E., Ciftci F.  
2023 Innovations in Intelligent Systems and Applications Conference, ASYU 2023, Sivas, Turkey, 11 - 13 October 2023
- VI. **Lane Tracking with Deep Learning: Mask RCNN and Faster RCNN**  
ORTATAŞ F. N., ÇETİN E.  
2022 Innovations in Intelligent Systems and Applications Conference, ASYU 2022, Antalya, Turkey, 7 - 09 September 2022

## Supported Projects

ÇETİN E., ORTATAŞ F. N., Project Supported by Higher Education Institutions, Yapay Zeka Destekli Elektrikli ve Otonom Araç Sistemlerin Geliştirilmesi ve Deneysel Olarak Test Edilmesi, 2022 - 2023

## Metrics

Publication: 10

Citation (Scopus): 7

H-Index (Scopus): 2

## Scholarships

2210C- Öncelikli alanlar, TUBITAK, 2021 - 2022

## Awards

Ortataş F. N., Mansiyon ödülü, Anadolu Üniversiteler Birliği, May 2022