

## Res. Asst. Onur Can BAYRAK

### Personal Information

**Office Phone:** [+90 212 383 5287](tel:+902123835287)

**Web:** <https://avesis.yildiz.edu.tr/onurcb>

**Address:** onurcb@yildiz.edu.tr / onurcbayrak@gmail.com

### International Researcher IDs

ORCID: 0000-0002-5147-747X

Yoksis Researcher ID: 303075

### Education Information

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, -, Turkey 2020 - Continues  
Postgraduate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Uzaktan Algılama Ve Cbs Programı, Turkey 2017 - 2020

Undergraduate, Yıldız Technical University, Faculty Of Civil Engineering, Geomatic Engineering, Turkey 2013 - 2017

### Research Areas

Geotechnical Engineering, Photogrammetry, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Yıldız Technical University, Faculty Of Civil Engineering, Geomatic Engineering, 2019 - Continues

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

#### I. Machine learning approach for GNSS geodetic velocity estimation

ÖZARPACI S., KILIÇ B., BAYRAK O. C., TAŞKIRAN M., DOĞAN U., Floyd M.

GPS Solutions, vol.28, no.2, 2024 (SCI-Expanded)

#### II. Unveiling the impact of machine learning algorithms on the quality of online geocoding services: a case study using COVID-19 data

Kılıç B., Bayrak O. C., Gülgün F., Gürtürk M., Abay P.

Journal of Geographical Systems, 2024 (SSCI)

#### III. Evaluating the effects of texture features on Pinus sylvestris classification using high-resolution aerial imagery

Erdem F., BAYRAK O. C.

Ecological Informatics, vol.78, 2023 (SCI-Expanded)

#### IV. Comparative analysis of the optimum cluster number determination algorithms in clustering GPS velocities

ÖZARPACI S., KILIÇ B., BAYRAK O. C., ÖZDEMİR A., YILMAZ Y., Floyd M.

Geophysical Journal International, vol.232, no.1, pp.70-80, 2023 (SCI-Expanded)

#### V. Role of machine learning algorithms in predicting the treatment outcome of uterine fibroids using high-intensity focused ultrasound ablation with an immediate nonperfused volume ratio of at least

## **90%**

- Akpınar E., Bayrak O. C., Nadarajan C., Müslümanoğlu M. H., Duc N. M., Keserci B.  
EUROPEAN REVIEW FOR MEDICAL AND PHARMACOLOGICAL SCIENCES, no.23, pp.1-19, 2022 (SCI-Expanded)
- VI. An ensemble deep learning based shoreline segmentation approach (WaterNet) from Landsat 8 OLI images  
Erdem F., BAYRAM B., Bakirman T., BAYRAK O. C., AKPINAR B.  
ADVANCES IN SPACE RESEARCH, vol.67, no.3, pp.964-974, 2021 (SCI-Expanded)
- VII. Implementation of ultra-light UAV systems for cultural heritage documentation  
Bakirman T., Bayram B., Akpinar B., Karabulut M. F., Bayrak O. C., Yigitoglu A., Şeker D. Z.  
JOURNAL OF CULTURAL HERITAGE, vol.44, pp.174-184, 2020 (SCI-Expanded)

## **Articles Published in Other Journals**

- I. Performance analysis of YOLO versions for automatic vehicle detection from UAV images  
Uzar A. M., Öztürk Ş., Bayrak O. C., Arda T., Tunahoglu Öcalan N.  
Advanced Remote Sensing, vol.1, no.1, pp.16-30, 2021 (Peer-Reviewed Journal)
- II. A deep learning integrated mobile application for historic landmark recognition: A case study of Istanbul  
Bayram B., Kılıç B., Ozoglu F., Erdem , Bakirman T., Sivri S., Bayrak O. C., Delen A.  
Mersin Photogrammetry Journal, vol.2, no.2, pp.38-50, 2020 (Peer-Reviewed Journal)

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

- I. A NEW DATASET AND METHODOLOGY FOR URBAN-SCALE 3D POINT CLOUD CLASSIFICATION  
Bayrak O. C., Uzar A. M., Remondino F.  
2nd GEOBENCH Workshop on Evaluation and BENCHMARKING of Sensors, Systems and GEOSPATIAL Data in Photogrammetry and Remote Sensing, Krakow, Poland, 23 October - 24 November 2023, pp.1-8
- II. DEEP LEARNING BASED AERIAL IMAGERY CLASSIFICATION FOR TREE SPECIES IDENTIFICATION  
Bayrak O. C., Erdem F., Uzar A. M.  
The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XLVIII-M-1-2023 39th International Symposium on Remote Sensing of Environment (ISRSE-39) "From Human Needs to SDGs", Antalya, Turkey, 24 - 28 April 2023, pp.471-476
- III. UAV DETECTION WITH DEEP LEARNING  
Şahin E., Uzar A. M., Bayrak O. C.  
10th INTERNATIONAL ZEUGMA CONFERENCE ON SCIENTIFIC RESEARCH, Gaziantep, Turkey, 25 - 26 June 2023, pp.260-261
- IV. FOTOGRAMETRİK NOKTA BULUTLARINDAN MAKİNE ÖĞRENMESİ YÖNTEMİ İLE BİNA ÇIKARIMI  
Bayrak O. C., Uzar A. M.  
VIII. UZAL-CBS 2022, Ankara, Turkey, 17 - 18 November 2022, pp.1-4
- V. The Role of Boosting based Machine Learning Algorithms in Predicting the Outcome of HIFU Ablation of Uterine Fibroids  
Akpınar E., Bayrak O. C., Keserci B.  
International Symposium on Therapeutic Ultrasound, Toronto, Canada, 7 - 10 June 2022
- VI. Derin Öğrenme Yöntemleri ile Uydu Görüntülerinden Orman Yangını Tespiti: Muğla Örneği  
Bayrak O. C., Arda T., Uzar A. M.  
TUFUAB 2022, Mersin, Turkey, 12 - 14 May 2022, pp.28-32
- VII. Comparative Analysis of Two Object-Based Techniques for Shoreline Extraction from Digital Orthophotos: A Case Study in Riga, Latvia.  
Selbesoğu M. O., Bayram B., Varna İ., Bakırman T., Jamil A., Bayrak O. C., Şeker D. Z.

- International Symposium on Applied Geoinformatics (ISAG-2019) , İstanbul, Turkey, 7 - 09 November 2019, pp.66
- VIII. **Direct Geo-referencing of UAV images for Orthophoto Generation based on RTK GNSS Positioning**  
Akpinar B., Selbesoğu M. O., Aykut N. O., Bayrak O. C., Bayram B.  
XXIX International Symposium on Modern Technologies, Education and Professional Practice in Geodesy and Related Fields, İstanbul, Turkey, 5 - 06 November 2019, pp.55
- IX. **Derin Öğrenme ile Obje Tanıma İşlemi Üzerine Bir İnceleme**  
Bayram B., Kılıç B., Özoglu F., Erdem F., Sivri S., Delen A., Bayrak O. C.  
10. Türkiye Ulusal Fotogrametri ve Uzaktan Algılama Birliği Teknik Sempozyumu (TUFUAB 2019), Aksaray, Turkey, 25 April 2019, pp.304-308

## Supported Projects

Yüzer N., Turgut S., Yılmaz Genç S., Dikçınar Sel B., Erdem Okumuş D., Kılıç B., Özarpacı S., Bayrak O. C., Sakarya A., Erbesler Ayaşlıgil T., et al., Project Supported by Higher Education Institutions, Şubat 2023 Depremlerinin Bölgede Oluşturduğu Etkiler ve Yapay Zeka ile Afet Yönetim Planlaması, 2023 - 2024

Yılmaz Y., Soycan M., Soycan A., Bayrak O. C., Project Supported by Higher Education Institutions, Accuracy and Applicability Research for 3D Modeling with Low Cost Imaging Systems, 2022 - 2024

Keserci B., TUBITAK Project, Deep Learning Advancement for Image Guided Classification: Applied to Gynecology, 2020 - 2023

## Metrics

Publication: 19  
Citation (WoS): 29  
Citation (Scopus): 65  
H-Index (WoS): 2  
H-Index (Scopus): 2