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International Researcher IDs

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Publons / Web Of Science ResearcherID: A-8836-2018

ScopusID: 57202188716

Yoksis Researcher ID: 217795

Education Information

Doctorate, Istanbul Technical University, Lisansüstü Eğitim Enstitüsü, Geomatics Engineering, Turkey 2016 - 2023

Postgraduate, Aksaray University, Graduate School of Natural and Applied Sciences , Geomatics Engineering, Turkey 2013 - 2016

Undergraduate, Aksaray University, Faculty of Engineering, Geomatics Engineering, Turkey 2009 - 2013

Dissertations

Doctorate, Deep Learning Based Road Segmentation from Multi-Source and Multi-Scale Data, Istanbul Technical University, Lisansüstü Eğitim Enstitüsü, Geomatics Engineering, 2023

Postgraduate, Heyelan envanter bilgilerinin toplanmasına yönelik MCBS ve İHA entegrasyonu olanaklarının araştırılması, Aksaray University, Fen Bilimleri Enstitüsü, Harita Mühendisliği, 2016

Postgraduate, Heyelan envanter bilgilerinin toplanmasına yönelik MCBS ve İHA entegrasyonu olanaklarının araştırılması, Aksaray Üniversitesi, Fen Bilimleri Enstitüsü, Harita Mühendisliği, 2016

Research Areas

Geotechnical Engineering, Geographic Information Systems, Photogrammetry, Overhead Photogrammetry, Geodesy and Photogrammetry, Remote sensing, Laser scanning, Lidar, Computer Vision, Artificial Intelligence, Computer Learning and Pattern Recognition

Academic Titles / Tasks

Research Assistant PhD, Recep Tayyip Erdogan University, MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ, İNŞAAT MÜHENDİSLİĞİ, 2023 - Continues

Research Assistant, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, 2023 - 2023

Researcher, Technische Universitaet Berlin, Geodesy and Geoinformation Science, 2022 - 2023

Research Assistant, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, 2016 - 2022

Research Assistant, Recep Tayyip Erdogan University, Mühendislik Fakültesi, Harita Mühendisliği Bölümü, 2014 - 2016

Courses

Ölçme Bilgisi, Undergraduate, 2023 - 2024

İş Sağlığı ve Güvenliği, Undergraduate, 2023 - 2024

Olasılık ve İstatistik, Undergraduate, 2023 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Improving Road Segmentation by Combining Satellite Images and LiDAR Data with a Feature-Wise Fusion Strategy**
Öztürk O., Işık M. S., Kada M., Şeker D. Z.
Applied Sciences (Switzerland), vol.13, no.10, 2023 (SCI-Expanded)
- II. **EVALUATION OF CULTURABLE AIRBORNE BACTERIA AND FUNGI DISTRIBUTION BY USING GIS-BASED 3D MODEL IN LECTURE THEATERS**
Ozdilek O., Halaç B., Öztürk O., Metiner K., Bağcıgil A. F., Şeker D. Z., Sivri N.
ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, vol.22, pp.879-890, 2023 (SCI-Expanded)
- III. **Performance evaluation of shallow and deep CNN architectures on building segmentation from high-resolution images**
Sarıtürk B., Şeker D. Z., Öztürk O., BAYRAM B.
Earth Science Informatics, vol.15, no.3, pp.1801-1823, 2022 (SCI-Expanded)
- IV. **INVESTIGATION OF POTENTIAL USAGE OF UAV BASED PHOTOGRAMMETRY AND LIDAR FOR FOREST INVENTORY**
Sarıtürk B., Öztürk O., Vardar E., Şeker D. Z.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.31, no.8A, pp.8475-8481, 2022 (SCI-Expanded)
- V. **Generation of Istanbul road data set using Google Map API for deep learning-based segmentation**
Öztürk O., Işık M. S., Sarıtürk B., Şeker D. Z.
International Journal of Remote Sensing, vol.43, no.8, pp.2793-2812, 2022 (SCI-Expanded)
- VI. **CONTRIBUTIONS OF OPEN SOURCE TOOLS FOR ROAD DATA PRODUCTION IN DEEP LEARNING APPLICATIONS**
Öztürk O., Sarıtürk B., Şeker D. Z.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.31, no.8A, pp.8542-8546, 2022 (SCI-Expanded)
- VII. **An automatic image matching algorithm based on thin plate splines**
Atik M. E., Öztürk O., Duran Z., Şeker D. Z.
Earth Science Informatics, vol.13, no.3, pp.869-882, 2020 (SCI-Expanded)
- VIII. **OBJECT BASED CLASSIFICATION OF UNMANNED AERIAL VEHICLE (UAV) IMAGERY FOR FOREST FIRES MONITORING**
Bilgilioglu B. B., Ozturk O., Sariturk B., Seker D. Z.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, no.2, pp.1011-1017, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. **Comparison of Fully Convolutional Networks (FCN) and U-Net for Road Segmentation from High Resolution Imageries**
ÖZTÜRK O., SARITÜRK B., ŞEKER D. Z.
International Journal of Environment and Geoinformatics, vol.7, no.3, pp.272-279, 2020 (Peer-Reviewed Journal)
- II. **3D Object Recognition with Keypoint Based Algorithms**
ATİK M. E., İNCEKARA A. H., SARITÜRK B., ÖZTÜRK O., DURAN Z., ŞEKER D. Z.
International Journal of Environment and Geoinformatics, vol.6, no.1, pp.139-142, 2019 (Peer-Reviewed Journal)
- III. **İnsanız Hava Aracı (İHA) Görüntüleri İle Ortofoto Üretiminde Yükseklik Ve Kamera Açısının**

Refereed Congress / Symposium Publications in Proceedings

- I. **Feature-Wise Fusion of Optical Satellite Images and Lidar Data: Pathway to Enhance Road Segmentation**
Şeker D. Z., Öztürk O., Işık M. S., Kada M.
American Geophysical Union (AGU) Fall Meeting 2023, California, United States Of America, 11 - 15 December 2023, pp.638-639
- II. **Yapay Zekâ Tabanlı Yol Bölütleme Çalışmalarında 3B Geometrik Bilgilerin Katkısının İrdelenmesi**
Öztürk O., Işık M. S., Şeker D. Z.
19. Türkiye Harita Bilimsel Teknik Kurultayı, Ankara, Turkey, 4 - 06 October 2023
- III. **Yol Ağının Yapay Zeka ile Bölütlemesi için Sınırsız Veri Üretimi**
Öztürk O., Işık M. S.
Türkiye Ulusal Fotogrametri ve Uzaktan Algılama Birliği (TUFUAB) XII. Teknik Sempozyumu, Sivas, Turkey, 24 - 26 May 2023, pp.16
- IV. **Comparison of FCN and U-Net for Image Segmentation Using High Resolution Images and Aerial Orthophoto Maps**
ÖZTÜRK O., SARITÜRK B., ŞEKER D. Z.
International Symposium on Applied Geoinformatics (ISAG 2019), İstanbul, Turkey, 7 - 09 November 2019
- V. **Building Extraction from High-Resolution Images Using Deep Learning Approach**
SARITÜRK B., ÖZTÜRK O., ŞEKER D. Z., BAYRAM B.
International Symposium on Applied Geoinformatics (ISAG 2019), İstanbul, Turkey, 7 - 09 November 2019
- VI. **Usage of Deep Learning for Image Segmentation from High Resolution Images,**
ÖZTÜRK O., ŞEKER D. Z., BAYRAM B., DURAN Z.
Türkiye Ulusal Fotogrametri ve Uzaktan Algılama Birliği X. Teknik Sempozyumu, Aksaray, Turkey, 25 - 27 April 2019, pp.86-89
- VII. **Contribution of Smartphones for Documentation of Cultural Heritage: A Case Study of Zilkale**
ÖZTÜRK O., SARITÜRK B., İncekara A. H., ŞEKER D. Z., BAYRAM B., DURAN Z.
39th Asian Conference on Remote Sensing (ACRS 2018, Kuala-Lumpur, Malaysia, 15 - 19 October 2018, vol.4, pp.2393-2400
- VIII. **3D Object Recognition with Keypoint Based Algorithms**
ATİK M. E., İNCEKARA A. H., SARITÜRK B., ÖZTÜRK O., DURAN Z., ŞEKER D. Z.
EURASIAN GIS 2018 CONGRESS, 4 - 07 September 2018, vol.1, pp.126-129
- IX. **Road network extraction by using combination of lidar and high resolution orthoimage**
Öztürk O., İncekara A. H., Bayram B., Şeker D. Z., Duran Z.
EurasianGIS2018, Baku, Azerbaijan, 4 - 07 September 2018, pp.38
- X. **GIS BASED ACCURACY ASSESSMENT OF MULTI-RESOLUTION SEGMENTATION**
DELEN A., İNCEKARA A. H., ÖZTÜRK O., ŞEKER D. Z.
EURASIAN GIS CONGRESS 2018, 4-7 September, Bakü, Azerbaijan, Baku, Azerbaijan, 4 - 07 September 2018, pp.75
- XI. **Dsm Production With Thin Plate Splines Algorithm And Accuracy Analysis**
Atik M. E., Saritürk B., Duran Z., Şeker D. Z., Öztürk O.
EurasianGIS2018, Baku, Azerbaijan, 4 - 07 September 2018, pp.36
- XII. **A Combination Example of Terrestrial and Unmanned Aerial Vehicle (UAV) Photogrammetry for 3D Documentation: Zilkale**
ÖZTÜRK O., SARITÜRK B., ŞEKER D. Z., BAYRAM B., DURAN Z.
ICOMOS Inter-ISC Meeting and Colloquium, Kastamonu, Turkey, 10 - 13 July 2018
- XIII. **Combination of UAV Based Digital Surface Model With 3D Model of ITU Bicycle House Produced by**

Close-Range Photogrammetry

ALBENİ Y., SARITÜRK B., ATİK M. E., ÖZTÜRK O., DURAN Z., ŞEKER D. Z., BAYRAM B., İncekara A. H., ÇELİK M. F.
ICOMOS Inter-ISC Meeting and Colloquium, Kastamonu, Turkey, 10 - 13 July 2018

XIV. **ANALYSIS OF NATURAL LAND COVER CHANGE USING TIME SERIES: A CASE STUDY OF ISTANBUL**

SARITÜRK B., ATİK M. E., ALGANCI U., ÖZTÜRK O., DURAN Z., ŞEKER D. Z.

4th International Water and Environment Fair and Congress, Bursa, Turkey, 22 - 24 April 2018

XV. **Temporal Monitoring of Landslide Using Images Obtained from UAV**

ÖZTÜRK O., SARITÜRK B., ŞEKER D. Z.

International Symposium on GIS Applications in Geography and Geosciences, 18 - 21 October 2017

XVI. **Comparison of 3D Models Generated from Images and Video File Using SFM Technique**

SARITÜRK B., ÖZTÜRK O., TOPALOĞLU R. H., ŞEKER D. Z.

International Symposium on GIS Applications in Geography and Geosciences, Çanakkale, Turkey, 18 - 21 October 2017

XVII. **Determining the Quantification of Coastal Erosion Using UAV A Case Study of Trabzon-Turkey**

SARITÜRK B., ÖZTÜRK O., ŞEKER D. Z.

19th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, 4 - 06 October 2017

XVIII. **Monitoring of Forest Fires Using Low-Budget Unmanned Aerial Vehicles**

ÖZTÜRK O., SARITÜRK B., ŞEKER D. Z., GÖZEL M. M.

19th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, 4 - 06 October 2017

XIX. **İnsansız Hava Araçlarının Dere Yataklarının Haritalanması Çalışmalarında Kullanılması: Zil Deresi Örneği**

Öztürk O., Zihni H., Akdeniz O., Ertaş M. A., Şeker D. Z.

Harita ve Kadastro Mühendisleri Odası (HKMO). 16. Türkiye Harita Bilimsel Ve Teknik Kurultayı, Ankara, Turkey, 3 - 06 May 2017, pp.1

XX. **İnsaniz Hava Aracı (İHA) Görüntüleri İle Ortofoto Üretiminde Yükseklik Ve Kamera Açısının Doğruluğa Etkisinin Araştırılması**

Öztürk O., Bilgiliöğlu B. B., Çelik M. F., Bilgiliöğlu S. S., Uluğ R.

Türkiye Ulusal Fotogrametri ve Uzaktan Algılama Birliği (TUFUAB) 9. Teknik Sempozyumu, Afyon, Turkey, 27 - 29 April 2017, pp.71-74

XXI. **Object-based classification of unmanned aerial vehicle (UAV) imagery for forest fires monitoring**

BİLGİLİÖĞLU B. B., ÖZTÜRK O., SARITÜRK B., ŞEKER D. Z.

38th Asian Conference on Remote Sensing - Space Applications: Touching Human Lives, ACRS 2017, New Delhi, India, 23 - 27 October 2017

Supported Projects

Duran Z., İpbüker C., Şeker D. Z., Atik M. E., Öztürk O., Project Supported by Higher Education Institutions, İnsansız Hava Aracı ile Elde Edilen Görüntüler için Görüntü Eşleştirme Algoritması Geliştirilmesi ve Test Edilmesi, 2017 - 2020

Şeker D. Z., Öztürk O., Saritürk B., İncekara A. H., Project Supported by Higher Education Institutions, İnsansız Hava Araçlarının İHA Orman ve Kıyı Yönetiminde Kullanımındaki Olanaklarının ve Kısıtlarının İrdelenmesi, 2017 - 2019

Scientific Refereeing

REMOTE SENSING, Journal Indexed in SCI-E, April 2024

REMOTE SENSING, Journal Indexed in SCI-E, March 2024

COMPUTING, Journal Indexed in SCI-E, February 2024

REMOTE SENSING, Journal Indexed in SCI-E, February 2024

BUILDINGS (BASEL), Journal Indexed in SCI-E, January 2024

ARABIAN JOURNAL OF GEOSCIENCES, Journal Indexed in ESCI, June 2022

ARABIAN JOURNAL OF GEOSCIENCES, Journal Indexed in ESCI, May 2022

Tasks In Event Organizations

Öztürk O., IX. Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu, Scientific Congress, Aksaray, Turkey, Ekim 2024

Bayram B., Öztürk O., INTERNATIONAL SYMPOSIUM ON APPLIED GEOINFORMATICS, Scientific Congress, Wroclaw, Poland, Mayıs 2024

Bayram B., Doğru A. Ö., Öztürk O., INTERNATIONAL SYMPOSIUM ON APPLIED GEOINFORMATICS, Scientific Congress, İstanbul, Turkey, Kasım 2019

Metrics

Publication: 34

Citation (WoS): 23

Citation (Scopus): 22

H-Index (WoS): 4

H-Index (Scopus): 3

Scholarships

2214-A - International Research Fellowship Programme for PhD Students, TUBITAK, 2022 - 2023