Res. Asst. Aylin Tuzcu Kokal

Personal Information

Office Phone: +90 212 285 3807
Email: tuzcuay@itu.edu.tr
Web: https://avesis.itu.edu.tr/tuzcuay

International Researcher IDs
ScholarID: bBgccooAAAAJ
ORCID: 0000-0003-2786-2033
Publons / Web Of Science ResearcherID: AAJ-9767-2020
ScopusID: 57195941485
Yoksis Researcher ID: 282467

Education Information

Doctorate, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, Turkey 2019 - Continues
Postgraduate, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, Turkey 2017 - 2019
Undergraduate, Istanbul Technical University, İnşaat Fakultesi/ Fen Bilimleri Enstitüsü/ Geomatik Mühendisliği, Geomatik Mühendisliği, Turkey 2013 - 2017

Foreign Languages

German, B1 Intermediate
English, C1 Advanced

Research Areas

Geotechnical Engineering, Remote sensing, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, 2018 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Detection of surface temperature anomaly of the Sea of Marmara**
Tuzcu Kokal A., Ismailoglu I., Musaoğlu N., Tanık A. G.
Advances in Space Research, vol.71, no.7, pp.2996-3004, 2023 (SCI-Expanded)

II. **Detection of mucilage phenomenon in the Sea of Marmara by using multi-scale satellite data**
Tuzcu Kokal A., Olğun Kıyak N., Musaoğlu N.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.194, no.8, 2022 (SCI-Expanded)

Articles Published in Other Journals

Articles Published in Other Journals

I. **Yeni Nesil Multispektral ve Hiperspektral Uydu Görüntülerinin Arazi Örtüsü / Arazi Kullanımı Sınıflandırma Performanslarının Karşılaştırılması: Sentinel-2 ve PRISMA Uydusu**
Tırmanoğlu B., İsmailoğlu İ., TUZCU KOKAL A., MUSAOĞLU N.
GEOMATIK, vol.8, no.1, pp.79-90, 2023 (Peer-Reviewed Journal)

II. **OPPORTUNITIES PROVIDED BY REMOTE SENSING DATA FOR WATERSHED MANAGEMENT: EXAMPLE OF KONYA CLOSED BASIN**
Yağmur N., Tanik A. G., Tuzcu A., Musaoğlu N., Erten E., Bilgilioglu B.
INTERNATIONAL JOURNAL OF ENGINEERING AND GEOSCIENCES, vol.5, no.3, pp.120-129, 2020 (ESCI)

Books & Book Chapters

I. **Assessing Contribution of Climate Change on Wetlands by Using Multi-temporal Satellite Data**
Musaoğlu N., Dervişoğlu A., Yağmur N., Tuzcu A., Tanık A. G.
in: Climate Change, Hazards and Adaptation Options, Walter Leal FilhoGustavo J. NagyMarco BorgaPastor David Chávez MuñozArtur Magnuszewski, Editor, Springer, London/Berlin , Berlin, pp.77-87, 2020

Refereed Congress / Symposium Publications in Proceedings

I. **COMPARISON of LANDSAT-9 and PRISMA SATELLITE DATA for LAND USE / LAND COVER CLASSIFICATION**
Kokal A., Ismailoglu I., Musaoğlu N.
2022 Annual Conference, ASPRS 2022, Colorado, United States Of America, 21 - 25 March 2022, vol.46, pp.197-201

II. **The Sea Surface Temperature Anomaly Detection of The Sea Of Marmara by Using Satellite Images**
Tuzcu Kokal A., Musaoğlu N., Tanık A. G.
INTERNATIONAL SYMPOSIUM ON APPLIED GEOINFORMATICS, 2 - 03 December 2021, pp.1-2

III. **Monitoring Chlorophyll-a and Sea Surface Temperature with Satellite Data Derived from Multiple Sensors**
TUZCU KOKAL A., MUSAOĞLU N.
The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 5 - 09 July 2021, pp.515-520

IV. **The use of spectral and textural features in crop type mapping using sentinel-2a images: A case study, çukurova region, Turkey**
TUZCU KOKAL A., SUNAR A. F., Dervişoğlu A., BERBEROĞLU S.
2021 24th ISPRS Congress Commission III: Imaging Today, Foreseeing Tomorrow, Nice, France, 5 - 09 July 2021, vol.43, pp.117-122

V. **Determination of Land-Use/Cover and Water Turbidity of Wetlands by Using High Resolution Satellite Image**
TUZCU A., Dervişoğlu A., MUSAOĞLU N., TANIK A. G.
International Symposium on Applied Geoinformatics (ISAG 2019), 7 - 09 November 2019, vol.1, pp.154-158

VI. **Temporal Assessment of Water Surfaces via Satellite Images: A Case Study from Konya Closed Basin of Turkey**
Başaran A., Haymana S., Kuşçu N. B., YAĞMUR N., TUZCU A., MUSAOĞLU N., TANIK A. G.
ECOCEE Conference, 17 - 18 June 2019

VII. **COMPARISON OF OBJECT BASED MACHINE LEARNING CLASSIFICATIONS OF PLANETSCOPE AND WORLDVIEW-3 SATELLITE IMAGES FOR LAND USE / COVER**
Tuzcu A., Taşkın Kaya G., Musaoğlu N.
ISPRS Geospatial Week 2019, Enschede, Netherlands, 10 June - 14 July 2019, pp.1887-1892

VIII. **ACCURACY ASSESSMENT OF DIGITAL ELEVATION MODELS OBTAINED FROM DIFFERENT DATA AND METHODS**

Varol B., Tuzcu A., Yilmaz E. O., Maktav D., Bayburt S.
8th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 19 - 22 June 2017, pp.177-182

Supported Projects

Tanık A. G., Musaoğlu N., Yağmur N., KİTİŞ M., KAÇIKOÇ M., Tuzcu A., Bilgilioğlu B. B., DERVİŞOĞLU A., Project Supported by Higher Education Institutions, Burdur Gölü Alt Havzasında Su Miktar ve Kalite Değişimlerinin İrdelenmesi, 2019 - 2023
Musaoğlu N., Tuzcu A., Project Supported by Higher Education Institutions, Akgöl Sulak Alanının Yüksek Çözünürlüklü Uydu Görüntüleri İle İncelenmesi, 2018 - 2019

Scientific Refereeing

STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT, SCI Journal, May 2022
HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES, Journal Indexed in SCI-E, June 2020
HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES, Journal Indexed in SCI-E, April 2020

Metrics

Publication: 14
Citation (WoS): 4
Citation (Scopus): 31
H-Index (WoS): 1
H-Index (Scopus): 3