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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABB-8187-2020

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Education Information

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

Postgraduate, Istanbul Technical University, Lisansüstü Eğitim Enstitüsü, Geomatik Mühendisliği, Turkey 2019 - 2023

Undergraduate, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, Turkey 2014 - 2019

Dissertations

Postgraduate, AÇIKLANABİLİR YAPAY ZEKA YÖNTEMLERİ İLE TOPRAK TUZLULUĞU HARİTALARININ ÜRETİLMESİ, Istanbul Technical University, Lisansüstü Eğitim Enstitüsü, 2023

Research Areas

Geotechnical Engineering, Remote sensing, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, 2020 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Evaluating the potential of multi-temporal Sentinel-1 and Sentinel-2 data for regional mapping of olive trees**
Akçay H. M., Aksoy S., Kaya Ş., Sertel E., Dash J.
International Journal of Remote Sensing, vol.44, no.23, pp.7338-7364, 2023 (SCI-Expanded)
- II. **Estimation of emissions from crop residue burning in Türkiye using remotely sensed data and the Google Earth Engine platform**
Bahşi K., Ustaoglu B., Aksoy S., Sertel E.
Geocarto International, vol.38, no.1, 2023 (SCI-Expanded)
- III. **Assessing the performance of machine learning algorithms for soil salinity mapping in Google Earth Engine platform using Sentinel-2A and Landsat-8 OLI data**

Articles Published in Other Journals

I. **Modelling Urban Heat Island with Landsat Images and LiDAR Datasets**

Şengün E., Arefi H., Aksoy S., Taheri P.

Sri Lanka Journals Online (JOL), vol.3, no.1, 2023 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Forest Biophysical Parameter Estimation via Machine Learning and Neural Network Approaches**

Aksoy S., Zuhter Hasan Al Shwayyat S., Topgül Ş. N., Sertel E., Ünsalan C., Solo J., Holmström A., Wallerman J., Nilsson M., Fransson J.

2023 IEEE International Geoscience and Remote Sensing Symposium, California, United States Of America, 16 - 21 July 2023

II. **Sentinel-1 Verilerinden Yararlanılarak Çıldır Gölü'nün Yüzey Buz Tabakasının Takibi**

Mutlu B., Aksoy S., Erol S.

Türkiye Ulusal Fotogrametri ve Uzaktan Algılama Birliği (TUFUAB) XII. Teknik Sempozyumu, Sivas, Turkey, 25 May 2023, pp.42

III. **MODELLING URBAN HEAT ISLAND WITH LANDSAT IMAGES AND LIDAR DATA SET**

ŞENGÜN E., Arefi H., AKSOY S., Taheri P.

2nd INTERNATIONAL SYMPOSIUM ON GEO- INFORMATICS (GEOSYM) 2022, Belihuloya, Sri Lanka, 1 - 02 December 2022

IV. **Determination of burned areas using Sentinel-2A imagery and machine learning classification algorithms**

Arıkan C., Tümer İ. N., Aksoy S., Sertel E.

4th Intercontinental Geoinformation Days , Tabriz, Iran, 20 - 21 June 2022, pp.1-4

V. **Long Term Monitoring Of Land Use - Land Cover Change and Its Effect on Surface Temperature by Use of Landsat Images And Google Earth Engine Platform**

Şengün E., Alganci U., Aksoy S.

GIS Ostrava 2022 – Earth Observation for Smart City and Smart Region, Ostrava, Czech Republic, 16 March 2022

VI. **COMPARISON OF LANDSAT AND MODIS DERIVED VEGETATION HEALTH INDICES FOR DROUGHT MONITORING USING GOOGLE EARTH ENGINE PLATFORM**

AKSOY S., SERTEL E.

International Symposium on Applied Geoinformatics (ISAG2021), Riga, Latvia, 02 December 2021

VII. **Comparison Of Drought Monitoring Indices Derived From MODIS and CHIRPS Data Using Google Earth Engine**

AKSOY S., SERTEL E.

9th Global Conference on Global Warming (GCGW - 2021), Croatia, 01 August 2021, pp.12-15

VIII. **Sentinel-1 and -2 time-series data-fusion for olive tree identification in heterogeneous land surfaces using Google Earth Engine**

AKÇAY H. M., KAYA Ş., SERTEL E., ALGANCI U., AKSOY S.

2nd Intercontinental Geoinformation Days (IGD) – 5-6 May 2021, Mersin, Turkey, 06 May 2021, vol.1, pp.159-162

IX. **Drought monitoring using MODIS derived indices and google earth engine platform**

Aksoy S., Gorucu O., Sertel E.

8th International Conference on Agro-Geoinformatics, Agro-Geoinformatics 2019, İstanbul, Turkey, 16 - 19 July 2019

Supported Projects

Sertel E., Ünsalan C., TÜBİTAK International Multi-Cooperation Project, ForestMap – The next generation of forest maps – adapting a Nordic success story across the globe, 2022 - 2025

Sertel E., Aksoy S., Project Supported by Higher Education Institutions, Uydu verileri kullanılarak kuraklık izlenmesine yönelik bir mobil uygulama geliştirilmesi, 2022 - 2023

Metrics

Publication: 13

Citation (WoS): 44

Citation (Scopus): 47

H-Index (WoS): 2

H-Index (Scopus): 2

Awards

Aksoy S., Sertel E., 2023 Best M.Sc. Thesis Award, Ieee Grss Turkey Chapter, January 2024

Aksoy S., Sertel E., Tanık A. G., Outstanding Paper Award, Cospar, January 2024

Non Academic Experience

Other Public Institution, Istanbul Technical University - Center for Satellite Communications and Remote Sensing

İTÜ - Uydu Haberleşme ve Uzaktan Algılama UYG-AR Merkezi