Prof. SAYGIN ABDİKAN

Personal Information

Office Phone: +90 312 297 6990 Extension: 125
Email: sayginabdikan@hacettepe.edu.tr
Web: https://avesis.hacettepe.edu.tr/sayginabdikan
Address: Hacettepe Üniversitesi Mühendislik Fakültesi Geomatik Mühendisliği Bölümü 06800 Beytepe Ankara

International Researcher IDs
ScholarID: xjpHp_MAAAAJ
ORCID: 0000-0002-3310-352X
Publons / Web Of Science ResearcherID: J-2281-2019
ScopusID: 55515101500
Yoksis Researcher ID: 218115

Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2007 - 2013
Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2004 - 2007
Undergraduate, Yildiz Technical University, Faculty Of Civil Engineering, Turkey 1999 - 2004

Dissertations

Doctorate, Monitoring of land surface subsidence in Zonguldak coal mining field in the northern Turkey using multi temporal sar interferometry, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, 2012

Research Areas

Geotechnical Engineering, Remote sensing, Image Processing, Engineering and Technology

Academic Titles / Tasks

Professor, Hacettepe University, Mühendislik Fakültesi, Geomatik Mühendisliği Bölümü, 2024 - Continues
Associate Professor, Hacettepe University, Mühendislik Fakültesi, Geomatik Mühendisliği Bölümü, 2020 - 2024
Associate Professor, Zonguldak Bülent Ecevit University, Faculty Of Engıneerıng, 2019 - 2020
Assistant Professor, Zonguldak Bülent Ecevit University, Faculty Of Engıneerıng, 2014 - 2019
Research Assistant, Yildiz Technical University, Faculty Of Civil Engineering, Geomatic Engineering, 2005 - 2010

Academic and Administrative Experience

Deputy Head of Department, Zonguldak Bülent Ecevit University, Faculty Of Engıneerıng, 2016 - 2019

Supervised Theses

Balık Şanlı F., Abdikan S., Göllerdeki uzun vadeli hacimsel değişimin belirlenmesi ve trend analizinde iha fotogrametrisi ve optik uydu verilerinin entegrasyonu: Burdur gölü örneği, Doctorate, Y.KAYA(Student), 2024

Balık Şanlı F., Abdikan S., Yüzey deformasyonlarının belirlenmesinde çok frekanslı ınsar ve GNSS-PPP yöntemlerinin entegrasyonu, Doctorate, A.DELEN(Student), 2024

Abdikan S., Yüksek çözünürlüklü görüntülerden otomatik bina çıkarımı, Postgraduate, H.ÇOBANOĞLU(Student), 2023

Abdikan S., Severcan Y. C., LAND USE / LAND COVER CHANGE DETECTION AND THE IMPACTS OF TERRITORIAL DEVELOPMENT PLANS ON THE CHANGE IN MUĞLA, Postgraduate, Ö.ERTUNÇ(Student), 2022

Abdikan S., Sentinel-2 verisi kullanılarak fındık alanlarının makine öğrenme yöntemleri ile belirlenmesi, Postgraduate, C.APAYDIN(Student), 2020

Abdikan S., Sentinel-2 uydu görüntüleri kullanılarak ayçiçeği bitkisi fenolojik evresinin izlenmesi ve verim tahmin çalışması, Postgraduate, Ö.GÖKBERK(Student), 2019

Abdikan S., Landsat-8 ve Sentinel-2 uydu görüntüleri kullanılarak orman yangın alanı tespiti: Muğla örneği, Postgraduate, B.KURNAZ(Student), 2019

Abdikan S., Sentinel-2 ve Landsat-8 uydu görüntüleri ile arazi örtüsü/kullanımı haritalarının karşılaştırılması, Postgraduate, F.GÖKHAN(Student), 2019

Abdikan S., Marangoz A. M., Aktif mikrodalga uydu görüntü verileri kullanılarak toprak neminin belirlenmesi, Doctorate, A.ŞEKERTEKİN(Student), 2018

Abdikan S., Çok zamanlı ve çok frekanslı sar-gnss verileri ile heyelanların araştırılması: Beylikdüzü-Esenyurt örneği, Doctorate, Ç.BAYIK(Student), 2018

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Modeling aboveground carbon in flooded forests using synthetic aperture radar data: a case study from a natural reserve in Turkish Thrace**
VATANDAŞLAR C., BOLAT F., ABDİKAN S., Pamukcu-Albers P., Satiral C.
IFOREST-BIOGEOSCIENCES AND FORESTRY, vol.17, pp.277-285, 2024 (SCI-Expanded)

II. **Mass movement evaluation in deformed clastic rock with InSAR technique**
Bayik C., ABDİKAN S., Gül M.
Earth Surface Processes and Landforms, vol.49, no.2, pp.875-886, 2024 (SCI-Expanded)

III. **A Statistical Approach for the Integration of Multi-Temporal InSAR and GNSS-PPP Ground Deformation Measurements**
Delen A., BALIK ŞANLI F., ABDİKAN S., Dogan A. H., Durdag U. M., ÖCALAN T., ERDOĞAN B., Calò F., Pepe A.
Sensors, vol.24, no.1, 2024 (SCI-Expanded)

IV. **Improving global digital elevation models using space-borne GEDI and ICESat-2 LiDAR altimetry data**
Narin O. G., ABDİKAN S., Gullu M., Lindenbergh R., BALIK ŞANLI F., Yilmaz I.
International Journal of Digital Earth, vol.17, no.1, 2024 (SCI-Expanded)

V. **Determination of long-term volume change in lakes by integration of UAV and satellite data: the case of Lake Burdur in Türkiye**
Kaya Y., BALIK ŞANLI F., ABDİKAN S.
Environmental science and pollution research international, vol.30, no.55, pp.117729-117747, 2023 (SCI-Expanded)

VI. **Classification of Large-Scale Mobile Laser Scanning Data in Urban Area with LightGBM**
Sevgen E., ABDİKAN S.
Remote Sensing, vol.15, no.15, 2023 (SCI-Expanded)

VII. **Retrieval of forest height information using spaceborne LiDAR data: a comparison of GEDI and ICESat-2 missions for Crimean pine (Pinus nigra) stands**
Vatandaslar C., Narin O. G., ABDİKAN S.
Trees - Structure and Function, vol.37, no.3, pp.717-731, 2023 (SCI-Expanded)

VIII. **Surface soil moisture estimation from multi-frequency SAR images using ANN and experimental data on a semi-arid environment region in Konya, Turkey**

Abdikan S., Sekertekin A., Madenoglu S., Ozcan H., Peker M., Pinar M. O., Koc A., Akgul S., Secmen H., Kececi M., et al.
Soil and Tillage Research, vol.228, 2023 (SCI-Expanded)

IX. **A comparative analysis of SLR, MLR, ANN, XGBoost and CNN for crop height estimation of sunflower using Sentinel-1 and Sentinel-2**
ABDİKAN S., Sekertekin A., Narin O. G., Delen A., BALIK ŞANLI F.
Advances in Space Research, vol.71, no.7, pp.3045-3059, 2023 (SCI-Expanded)

X. **Multi-temporal analysis of inland water level change using ICESat-2 ATL-13 data in lakes and dams**
Narin O. G., Abdikan S.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.30, no.6, pp.15364-15376, 2023 (SCI-Expanded)

XI. **Innovative remote sensing methodologies and applications in coastal and marine environments**
Zhao Q., Pepe A., Zamparelli V., Mastro P., Falabella F., ABDİKAN S., Bayik C., BALIK ŞANLI F., Ustuner M., Avşar N. B., et al.
Geo-Spatial Information Science, 2023 (SCI-Expanded)

XII. **Carbon stock estimation by dual-polarized synthetic aperture radar (SAR) and forest inventory data in a Mediterranean forest landscape**
Vatandaslar C., Abdikan S.
JOURNAL OF FORESTRY RESEARCH, vol.33, no.3, pp.827-838, 2022 (SCI-Expanded)

XIII. **Monitoring of phenological stage and yield estimation of sunflower plant using Sentinel-2 satellite images**
Narin O. G., ABDİKAN S.
GEOCARTO INTERNATIONAL, vol.37, no.5, pp.1378-1392, 2022 (SCI-Expanded)

XIV. **Investigation of Source Parameters of the 2020 Elazig-Sivrice Earthquake (Mw 6.8) in the East Anatolian Fault Zone**
BAYIK Ç., GÜRBÜZ G., ABDİKAN S., Gormus K. S., KUTOĞLU Ş. H.
PURE AND APPLIED GEOPHYSICS, vol.179, no.2, pp.587-598, 2022 (SCI-Expanded)

XV. **Burned Area Detection Using Multi-Sensor SAR, Optical, and Thermal Data in Mediterranean Pine Forest**
Abdikan S., Bayik C., Sekertekin A., Bektaş Balçık F., Karimzadeh S., Matsuoka M., Sanli F. B.
FORESTS, vol.13, no.2, 2022 (SCI-Expanded)

XVI. **Monitoring of small-scale deformation at sea-filled Ordu-Giresun Airport, Turkey from multi-temporal SAR data**
Bayik C., ABDİKAN S.
ENGINEERING FAILURE ANALYSIS, vol.130, 2021 (SCI-Expanded)

XVII. **Long term displacement observation of the Ataturk Dam, Turkey by multi-temporal InSAR analysis**
BAYIK Ç., ABDİKAN S., Arikan M.
ACTA ASTRONAUTICA, vol.189, pp.483-491, 2021 (SCI-Expanded)

XVIII. **Investigation of the landslides in Beylikduzu-Esenyurt Districts of Istanbul from InSAR and GNSS observations**
Bayık Ç., Abdikan S., Özdemir A., Arıkan M., Balık Şanlı F., Doğan U.
NATURAL HAZARDS, vol.109, no.1, pp.1201-1220, 2021 (SCI-Expanded)

XIX. **Statistical reinterpretation of the long term creep behaviour of the Ismetpasa segment of North Anatolian Fault, Turkey**
GÜRBÜZ G., BAYIK Ç., ABDİKAN S., Gormus K. S., KUTOĞLU Ş. H.
TECTONOPHYSICS, vol.814, 2021 (SCI-Expanded)

XX. **Sentinel-1 interferometric coherence and backscattering analysis for crop monitoring**
Nasirzadehdizaji R., Çakır Z., Sanli F. B., ABDİKAN S., Pepe A., Calo F.
COMPUTERS AND ELECTRONICS IN AGRICULTURE, vol.185, 2021 (SCI-Expanded)

XXI. **Identifying Land Subsidence Using Global Digital Elevation Models**
Becek K., Ibrahim K., Bayik C., ABDİKAN S., Kutoglu H. S., Glabicki D., Blachowski J.
IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING, vol.14, pp.8989-8998, 2021 (SCI-Expanded)

XXII.   ALOS-2 and Sentinel-1 SAR data sensitivity analysis to surface soil moisture over bare and vegetated agricultural fields
ŞEKERTEKİN A., Marangoz A. M., ABDİKAN S.
COMPUTERS AND ELECTRONICS IN AGRICULTURE, vol.171, 2020 (SCI-Expanded)

XXIII.   Sensitivity Analysis of Multi-Temporal Sentinel-1 SAR Parameters to Crop Height and Canopy Coverage
Nasirzadehdizaji R., Sanli F. B., ABDİKAN S., Çakır Z., ŞEKERTEKİN A., Ustuner M.
APPLIED SCIENCES-BASEL, vol.9, no.4, 2019 (SCI-Expanded)

XXIV.   The acquisition of impervious surface area from LANDSAT 8 satellite sensor data using urban indices: a comparative analysis
ŞEKERTEKİN A., ABDİKAN S., Marangoz A. M.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.190, no.7, 2018 (SCI-Expanded)

XXV.   THE ROLE OF SAR REMOTE SENSING TO DETECT OIL POLLUTION AND EMERGENCY INTERVENTION
Abdikan S., Bayik C., BALIK ŞANLI F.
OIL SPILL ALONG THE TURKISH STRAITS SEA AREA; ACCIDENTS, ENVIRONMENTAL POLLUTION, SOCIO-ECONOMIC IMPACTS AND PROTECTION, vol.47, pp.157-175, 2018 (SCI-Expanded)

XXVI.   Exploring image fusion of ALOS/PALSAR data and LANDSAT data to differentiate forest area
ABDİKAN S.
GEOCARTO INTERNATIONAL, vol.33, no.1, pp.21-37, 2018 (SCI-Expanded)

XXVII.   Evaluation of image fusion methods using PALSAR, RADARSAT-1 and SPOT images for land use/land cover classification
Sanli F. B., ABDİKAN S., ESETLİLİ M. T., Sunar A. F.
JOURNAL OF THE INDIAN SOCIETY OF REMOTE SENSING, vol.45, no.4, pp.591-601, 2017 (SCI-Expanded)

XXVIII. DInSAR-Based Detection of Land Subsidence and Correlation with Groundwater Depletion in Konya Plain, Turkey
Calo F., Notti D., Galve J. P., ABDİKAN S., Görüm T., Pepe A., Sanli F. B.
REMOTE SENSING, vol.9, no.1, 2017 (SCI-Expanded)

XXIX.   COMPARISON OF CROP CLASSIFICATION METHODS FOR THE SUSTAINABLE AGRICULTURE MANAGEMENT
Ustuner M., ESETLİLİ M. T., Sanli F. B., ABDİKAN S., KURUCU Y.
JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY, vol.17, no.2, pp.648-655, 2016 (SCI-Expanded)

XXX.   The Space-Borne SBAS-DInSAR Technique as a Supporting Tool for Sustainable Urban Policies: The Case of Istanbul Megacity, Turkey
Calo F., ABDİKAN S., Görüm T., Pepe A., KILIÇ H., Sanli F. B.
REMOTE SENSING, vol.7, no.12, pp.16519-16536, 2015 (SCI-Expanded)

XXXI.   Enhancing land use classification with fusing dual-polarized TerraSAR-X and multispectral RapidEye data
ABDİKAN S., BİLGİN G., Sanli F. B., USLU E., Ustuner M.
JOURNAL OF APPLIED REMOTE SENSING, vol.9, 2015 (SCI-Expanded)

XXXII.   Monitoring of coal mining subsidence in peri-urban area of Zonguldak city (NW Turkey) with persistent scatterer interferometry using ALOS-PALSAR
ABDİKAN S., Arikan M., Sanli F. B., Çakır Z.
ENVIRONMENTAL EARTH SCIENCES, vol.71, no.9, pp.4081-4089, 2014 (SCI-Expanded)

XXXIII. A comparative data-fusion analysis of multi-sensor satellite images
ABDİKAN S., Sanli F. B., Sunar A. F., Ehlers M.
INTERNATIONAL JOURNAL OF DIGITAL EARTH, vol.7, no.8, pp.671-687, 2014 (SCI-Expanded)

XXXIV.   COMPARISON OF DIFFERENT FUSION ALGORITHMS IN URBAN AND AGRICULTURAL AREAS USING SAR (PALSAR AND RADARSAT) AND OPTICAL (SPOT) IMAGES
ABDİKAN S., Sanli F. B.
BOLETIM DE CIENCIAS GEODESICAS, vol.18, no.4, pp.509-531, 2012 (SCI-Expanded)

Articles Published in Other Journals

I. **Estimating Stand Top Height Using Freely Distributed ICESat-2 LiDAR Data: A Case Study from Multi-species Forests in Artvin**
    Narin O. G., Vatandaşlar C., Abdikan S.
    FORESTIST, vol.72, no.3, pp.294-298, 2022 (ESCI)

II. **Toprak neminin yarı kurak alanlarda çok zamanlı RADARSAT-2 verileri ile incelenmesi**
    Madenoğlu S., Özcan H., Peker M. R., Pınar M. Ö., Akgül S., Keçeci M., Tunçay T., Seçmen M. H., Koç A., Üstüner M., et al.
    Jeodezi ve jeoinformasyon dergisi (Online), vol.9, no.1, pp.1-11, 2022 (Peer-Reviewed Journal)

III. **Fındık Bahçelerinin Sentinel-2 Verileri Kullanılarak Piksel Tabanlı Sınıflandırma Yöntemleriyle Belirlenmesi**
    APAYDIN C., ABDİKAN S.
    Geomatik, vol.6, no.2, pp.107-114, 2021 (Peer-Reviewed Journal)

IV. **Hafif Gradyan Artırma Makineleri ile Tarımsal Ürünlerin Sınıflandırılması**
    Abdikan S., Bilgin G., Balık Şanlı F., Üstüner M.
    Türk Uzaktan Algılama ve CBS Dergisi, vol.1, no.2, pp.97-105, 2020 (Peer-Reviewed Journal)

V. **RASAT verisi kullanarak farklı pan-keskinleştirme yöntemlerininistatistiksel analizi**
    ABDİKAN S.
    Türk Coğrafya Dergisi, vol.68, pp.57-62, 2017 (Peer-Reviewed Journal)

VI. **Zonguldak maden alanlarında meydana gelen yer yüzeyi hareketlerinin insar zaman serileri ile belirlenmesi**
    ABDİKAN S., Arıkan M., BALIK ŞANLI F., ÇAKIR Z., KEMALDERE H.
    Harita Dergisi, no.149, pp.1-6, 2013 (Peer-Reviewed Journal)

Books

I. **Bölüm 6: Mikrodalga Algılama ve Lidar**
    ABDİKAN S.
    in: UZAKTAN ALGILAMA VE GÖRÜNTÜ YORUMLAMA (Remote Sensign and Image Interpretation), Kaan Şevki KAVAK, Editor, Palme Yayınevi, Ankara, pp.385-484, 2018

Papers Published in Refereed Scientific Meetings

I. **CROP HEIGHT ESTIMATION OF WHEAT USING SENTINEL-1 SATELLITE IMAGERY: PRELIMINARY RESULTS**
    Narin O., Bayik C., Sekertekin A., Madenoglu S., Pinar M., ABDİKAN S., BALIK ŞANLI F.
    8th International Conference on GeoInformation Advances, GeoAdvances 2024, İstanbul, Turkey, 11 - 12 January 2024, vol.48, pp.267-273

II. **The Estimation of Forest Aboveground Biomass Using Multiple Satellite Data and Different Machine Learning Models**
    Ozdemir E. G., Abdikan S.
    32nd IEEE Signal Processing and Communications Applications Conference (SIU), Mersin, Turkey, 15 - 18 May 2024

III. **PREDICTION OF LONG-TERM SENTINEL-1 INSAR TIME SERIES ANALYSIS**
    ABDİKAN S., Coskun S., Narin O., Bayik C., Calò F., Pepe A., BALIK ŞANLI F.
    39th International Symposium on Remote Sensing of Environment, ISRSE 2023, Antalya, Turkey, 24 - 28 April 2023, vol.48, pp.3-8

IV. **Land Subsidence Analysis Using PAZ and Sentinel-1 Data on the Karstic Region of Konya Basin,**

Turkey

Abdikan S., Bayık Ç., Calo F., Pepe A., Arıkan M., Balık Şanlı F.

Tenth International Symposium on Land Subsidence TISOLS 2023, Zuid-Holland, Netherlands, 17 - 21 April 2023, pp.1-5

V. **Multi-Criteria Strategy for Estimating GEDI Terrain Height**

Narin O. G., Lindenbergh R., ABDİKAN S.

10th International Conference on Recent Advances in Air and Space Technologies, RAST 2023, İstanbul, Turkey, 7 - 09 June 2023

VI. **MONITORING THE SLOWLY DEVELOPING LANDSLIDE WITH THE INSAR TECHNIQUE IN SAMSUN PROVINCE, NORTHERN TURKEY**

Coskun S., Bayik C., ABDİKAN S., Görüm T., BALIK ŞANLI F.

39th International Symposium on Remote Sensing of Environment (ISRSE) - From Human needs to SDGs, Antalya, Turkey, 24 - 28 April 2023, pp.497-502

VII. **POINT-WISE CLASSIFICATION OF HIGH-DENSITY UAV-LIDAR DATA USING GRADIENT BOOSTING MACHINES**

Sevgen E., ABDİKAN S.

39th International Symposium on Remote Sensing of Environment (ISRSE) - From Human needs to SDGs, Antalya, Turkey, 24 - 28 April 2023, pp.587-593

VIII. **USING RVI AND NDVI TIME SERIES FOR CROPLAND MAPPING WITH TIME-WEIGHTED DYNAMIC TIME WARPING**

Narin O., Bayik C., ABDİKAN S., BALIK ŞANLI F.

7th International Conference on Smart City Applications, SCA 2022, Castelo Branco, Portugal, 19 - 21 October 2022, vol.48, pp.97-101

IX. **EVALUATION OF DEM DERIVED BY REPEAT-PASS X-BAND STRIPMAP MODE PAZ DATA**

Abdikan S., Bayik C., Calò F., Pepe A., Balık Şanlı F.

2022 24th ISPRS Congress on Imaging Today, Foreseeing Tomorrow, Commission III, Nice, France, 6 - 11 June 2022, vol.43, pp.243-248

X. **YIELD ESTIMATION of SUNFLOWER PLANT with CNN and ANN USING SENTINEL-2**

Narin O., Şekertekin A., Abdikan S., Balık Şanlı F., Gullu M.

6th International Conference on Smart City Applications, Safranbolu, Turkey, 27 - 29 October 2021, vol.46, pp.385-389

XI. **Coherence and backscatter based cropland mapping using multi-temporal sentinel-1 with dynamic time warping**

Narin O., Abdikan S., Bayik C., Şekertekin A., Delen A., Balık Şanlı F.

24th ISPRS Congress on Imaging Today, Foreseeing Tomorrow, Commission V and Youth Forum, Nice, France, 5 - 09 July 2021, vol.43, pp.37-41

XII. **Repeat-pass interferometric and backscatter analysis of X-band PAZ satellite-First results**

ABDİKAN S., Bayik C., Ustuner M., BALIK ŞANLI F.

2020 24th ISPRS Congress - Technical Commission III, Nice, Virtual, France, 31 August - 02 September 2020, vol.43, pp.253-258

XIII. **OBJECT BASED FLOODING EXTENT MAPPING WITH SENTINEL-2 DATA**

DELEN A., ABDİKAN S., BALIK ŞANLI F., BEKTAŞ BALÇIK F., GÖKSEL Ç.

ATMOS, 23 - 26 November 2019

XIV. **The Use Of Sentinel-2 Satellite Data in Examining The Relationship Between Yield And Vegetation Indices For Sunflower Plant**

NARİN Ö. G., ABDİKAN S., ŞEKERTEKİN A., DELEN A., BALIK ŞANLI F.

International Symposium on Applied Geoinformatics (ISAG-2019), İstanbul, Turkey, 7 - 09 November 2019, pp.258-262

XV. **Determination of Forest Fire Area by Using Satellite Images: Muğla Case**

KURNAZ B., BAYIK Ç., ABDİKAN S.

3rd International Conference on Advanced Engineering Technologies (ICADET), Bayburt, Turkey, 19 - 21

September 2019, pp.1465-1472

XVI. **An Assessment of Urban Area Extraction Using ALOS-2 Data**
ABDİKAN S., BAYIK Ç., BALIK ŞANLI F., ÜSTÜNER M.
2019 9th International Conference on Recent Advances in Space Technologies (RAST), Istanbul, Turkey, Turkey, 11 - 14 June 2019

XVII. **Forest type classification using morphological operators and Forest PA method**
ÜSTÜNER M., BALIK ŞANLI F., ABDİKAN S.
AIT2018 Italian Society of Remote Sensing IX Conference, Firenze, Italy, 4 - 06 July 2018, pp.49-52

XVIII. **INSAR ANALYSIS OF AYVACIK 2017 (MW 5.3) EARTHQUAKE SWARM (CANAKKALE, NW-TURKEY)**
ABDİKAN S., İmamoğlu M., Alasağ T., TOKER M., KUTOĞLU Ş. H., ŞAHİN Ş.
ISPRS Geospatial Week 2019, Enschede, Netherlands, 10 June - 14 October 2019, pp.1907-1911

XIX. **SENTINEL-2 UYDUSUNUN AYÇİÇEĞİ BİTKİSİNİ İZLEMEDEKİ PERFORMANS ANALİZİ**
NARİN Ö. G., ABDİKAN S., ŞEKERTEKİN A., DELEN A., BALIK ŞANLI F.
TUFUAB X. Teknik Sempozyumu, Aksaray, Turkey, 25 - 27 April 2019, pp.190-194

XX. **A Booster Analysis of Extreme Gradient Boosting for Crop Classification using PolSAR Imagery**
Ustuner M., Sanli F. B., ABDİKAN S., BİLGİN G., Göksel Ç.
8th International Conference on Agro-Geoinformatics (Agro-Geoinformatics), İstanbul, Turkey, 16 - 19 July 2019

XXI. **SENTİNEL-2A VERİSİ KULLANARAK TARIMSAL ÜRÜN DESENİNİN BELİRLENMESİ**
NARİN Ö. G., DELEN A., ABDİKAN S.
UZAL-CBS 2018, Turkey, 18 - 21 September 2018

XXII. **Preliminary Results of Temporal Deformation Analysis in Istanbul Using Multi-Temporal Insar with Sentinel-1 Sar Data**
İmamoğlu M., ABDİKAN S., Kahraman F.
IGARSS 2018 - 2018 IEEE International Geoscience and Remote Sensing Symposium, Valencia, Spain, 22 - 27 July 2018, pp.1352-1355

XXIII. **AN APPLICATION OF ROLL-INVARIANT POLARIMETRIC FEATURES FOR CROP CLASSIFICATION FROM MULTI-TEMPORAL RADARSAT-2 SAR DATA**
ÜSTÜNER M., BALIK ŞANLI F., ABDİKAN S., Esetlili M. T., BİLGİN G.
ISPRS TC I Mid-term Symposium Innovative Sensing – From Sensors to Methods and Applications, Karlsruhe, Germany, 10 - 12 October 2018, vol.1, pp.451-456

XXIV. **Backscatter analysis using multi-temporal Sentinel-1 SAR data for Crop growth of Maize in Konya Basin, Turkey**
ABDİKAN S., ŞEKERTEKİN A., ÜSTÜNER M., BALIK ŞANLI F., Nasirzadehdizaji R.
ISPRS Technical Commission III Symposium on "Developments, Technologies and applications in Remote Sensing", Pekin, China, 7 - 10 May 2018, vol.3, pp.9-13

XXV. **Monitoring Urban Green Space Using Göktürk-2 Data: A Case Study For Edirne City**
BALIK ŞANLI F., DELEN A., ÜSTÜNER M., BAYIK Ç., ABDİKAN S.
The 2nd International Urban, Environment and Health Congress, Kapadokya/ Ürgüp/ Nevşehir, Turkey, 16 - 20 April 2018

XXVI. **A MULTI-SOURCE DATA APPROACH FOR THE INVESTIGATION OF LAND SUBSIDENCE IN THE KONYA BASIN, TURKEY**
Calo F., Davide N., Galve J. P., ABDİKAN S., GÖRÜM T., ORHAN O., MAKİNECİ H. B., Pepe A., YAKAR M., BALIK ŞANLI F.
GeoInformation For Disaster Management (Gi4DM), İstanbul, Turkey, 18 - 21 March 2018, pp.129-135

XXVII. **Exploiting Multi-Temporal Sentinel-1 SAR Data for Flood Extend Mapping**
BAYIK Ç., ABDİKAN S., Ozbulak G., Alasag T., Aydemir S., BALIK ŞANLI F.
GeoInformation For Disaster Management (Gi4DM), İstanbul, Turkey, 18 - 21 March 2018, pp.109-113

XXVIII. **Assessment of ALOS PALSAR 25-m mosaic data for land cover mapping**
ABDİKAN S., BAYIK Ç.
2017 9th International Workshop on the Analysis of Multitemporal Remote Sensing Images (MultiTemp), Brugge, Belgium, Belgium, 27 - 29 June 2017

XXIX. **Performance Analysis of Landsat 8 OLI Images to Determine Land Use/Cover Using TCT and Pansharpening Methods**
BALIK ŞANLI F., GÖKSEL Ç., BEKTAŞ BALÇIK F., ABDİKAN S.
28th International Cartographic Conference, United States Of America, 2 - 07 July 2017

XXX. **Bitki Örtüsü İndekslerinin Tarımsal Ürün Deseni Tespitindeki Etkisinin Araştırılması**
ÜSTÜNER M., BALIK ŞANLI F., ABDİKAN S.
VI. Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu, Turkey, 5 - 07 October 2016

XXXI. **Uzaktan Algılama Görüntülerinden Konuma Bağlı Bilgi Üretimi Araştırmalarında Zonguldak Test Alanının Önemi**
BAYIK Ç., TOPAN H., ÖZENDİ M., ORUÇ M., CAM A., ABDİKAN S.
VI. Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu, Adana, Turkey, 5 - 07 October 2016

XXXII. **Preliminary Results of Estimating Soil Moisture Over Bare Soil Using Full Polarimetric ALOS 2 Data**
ŞEKERTEKİN A., MARANGOZ A. M., ABDİKAN S., Esetlili M. T.
Geoadvances 2016, Turkey, 16 - 17 October 2016, vol.42, pp.173-176

XXXIII. **Land Cover Mapping Using SENTINEL 1 SAR Data**
ABDİKAN S., BALIK ŞANLI F., ÜSTÜNER M., Calo F.
XXIII ISPRS Congress, Prag, Czech Republic, 12 - 19 July 2016, vol.41, pp.757-761

XXXIV. **BALANCED VS IMBALANCED TRAINING DATA: CLASSIFYING RAPIDEYE DATA WITH SUPPORT VECTOR MACHINES**
Ustuner M., Sanli F. B., ABDİKAN S.
23rd Congress of the International-Society-for-Photogrammetry-and-Remote-Sensing (ISPRS), Prague, Czech Republic, 12 - 19 July 2016, vol.41, pp.379-384

XXXV. **GEOSPATIAL ANALYSIS USING REMOTE SENSING IMAGES: CASE STUDIES OF ZONGULDAK TEST FIELD**
Bayik C., Topan H., Ozendi M., Oruc M., Cam A., ABDİKAN S.
23rd Congress of the International-Society-for-Photogrammetry-and-Remote-Sensing (ISPRS), Prague, Czech Republic, 12 - 19 July 2016, vol.41, pp.435-442

XXXVI. **Comparison of crop classification methods for the sustainable agrıculture management**
ÜSTÜNER M., Esetlili M. T., Füsun B. Ş., ABDİKAN S., KURUCU Y.
1st INTERNATIONAL CONFERENCE on Sea and Coastal Development in the frame of Sustainability, Trabzon, Turkey, 18 - 20 September 2015

XXXVII. **Spektral Band ve Bitki İndeksi Seçiminin Ürün Deseni Sınıflandırma Doğruluğuna Etkisi: Karşılaştırmalı Analiz**
ÜSTÜNER M., BALIK ŞANLI F., ABDİKAN S.
TUFUAB VIII.Teknik Sempozyumu, Konya, Turkey, 21 - 23 May 2015, pp.162-165

XXXVIII. **Megakent İstanbul'da Meydana Gelen Yüzey Deformasyonlarının Insar Yöntemi İle Analizi**
ABDİKAN S., Calo F., BALIK ŞANLI F., Pepe A., GÖRÜM T.
V. Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu, İstanbul, Turkey, 14 - 17 October 2014

XXXIX. **Kırmızı-Kenar Ve Yakın Kızılötesi Bantlarının Ürün Deseni Sınıflandırma Doğruluğuna Olan Etkisinin Araştırılması**
ÜSTÜNER M., BALIK ŞANLI F., ABDİKAN S.
V. Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu, Turkey, 14 - 17 October 2014

XL. **Analysis Of Deformation Patterns Through Advanced Dinsar Techniques In Istanbul Megacity**
BALIK ŞANLI F., Calo F., ABDİKAN S., Pepe A., GÖRÜM T.
ISPRS Technical Commission VII Symposium, İstanbul, Turkey, 29 September - 02 October 2014, vol.7, pp.19-21

XLI. **Crop Type Classification Using Vegetation Indices of RapidEye Imagery**
ÜSTÜNER M., BALIK ŞANLI F., ABDİKAN S., ESETLILI M. T., KURUCU Y.
ISPRS Technical Commission VII Symposium, Antalya, Turkey, 29 September - 02 October 2014, pp.195-198

XLII. **İnterferometrik SAR Yöntemi ile Maden Alanlarında Meydana Gelen Çökmelerin Belirlenmesi**
BALIK ŞANLI F., ABDİKAN S.
IV. Jeolojik Uzaktan Algılama Sempozyumu, Antalya, Turkey, 13 - 14 March 2014

XLIII. **FUSION OF TERRASAR-X AND RAPIDEYE DATA: A QUALITY ANALYSIS**
BALIK ŞANLI F., ABDİKAN S., Esetili M. T., ÜSTÜNER M., SUNAR A. F.
ISPRS Conference on Serving Society with Geoinformatics (SSG), Antalya, Turkey, 11 - 17 November 2013, pp.27-30

XLIV. **InSAR Zaman Serileri ile Yer Yüzeyi Hareketlerinin İzlenmesi: Türkiye Zonguldak Kozlu Maden Alanı Örneği**
BALIK ŞANLI F., ABDİKAN S., Arıkan M., ÇAKIR Z., KEMALDERE H.
IV. Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu, Zonguldak, Turkey, 16 - 19 October 2012

XLV. **SAR Görüntülerinden Kıyı Şeridi Belirleme Algoritması**
ACAR U., BAYRAM B., BALIK ŞANLI F., ABDİKAN S., ÜSTÜNER M., MAKTAV M. D., SUNAR A. F.
IV. Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu, Zonguldak, Turkey, 16 - 19 October 2012

XLVI. **Mapping Crop Types by Using Rapideye Data in Menemen Plain, İzmir**
BEKTAŞ BALÇIK F., BALIK ŞANLI F., ABDİKAN S., Esetlili M. T., GÖKSEL Ç., KURUCU Y.
8th International Soil Science Congress on Land Degradation and Challenges in Sustainable Soil Management, Çeşme, Turkey, 15 - 17 May 2012, vol.3

XLVII. **InSAR Time Series Analysis of Coal Mining in Zonguldak City, Northwestern Turkey**
ABDİKAN S., Hooper A., Arıkan M., BALIK ŞANLI F., ÇAKIR Z., KEMALDERE H.
Fringe 2011 Workshop, Rome, Italy, 19 - 23 September 2011

XLVIII. **AN ALGORITHM FOR COASTLINE DETECTION USING SAR IMAGES**
ACAR U., Bayram B., Sanli F. B., ABDİKAN S., Sunar A. F., Cetin H. I.
22nd Congress of the International-Society-for-Photogrammetry-and-Remote-Sensing, Melbourne, Australia, 25 August - 01 September 2012, pp.457-460

XLIX. **Nesne Tabanlı Sınıflandırma Tekniği Kullanarak Arazi Örtüsünün Belirlenmesi**
BALIK ŞANLI F., ABDİKAN S., BAYRAM B., Esetlili M. T., KURUCU Y.
III. Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu, Kocaeli, Turkey, 11 - 13 October 2010

L. **Land use/cover mapping using multisensor image fusion technique**
ABDİKAN S., Sanli F. B., ESETLİLİ M. T., KURUCU Y.
28th European-Association-of-Remote-Sensing-Laboratories (EARSeL) Symposium and Workshops on Remote Sensing for a Changing Europe, İstanbul, Turkey, 2 - 05 June 2008, pp.157-164

LI. **SAR Görüntülerinin (PALSAR ve RADARSAT) Multispectral SPOT Görüntüsü ile Birleştirirlmesi: Sonuç Görüntülerinin Karşılaştırmalı Analizi**
ABDİKAN S., BALIK ŞANLI F.
UZAL CBS II. Uzaktan Algılama ve Coğrafi bilgi Sistemleri Sempozyumu, Kayseri, Turkey, 13 - 14 October 2008

LII. **SOIL MOISTURE ESTIMATION FROM RADARSAT 1 ASAR AND PALSAR DATA IN AGRICULTURAL FIELDS OF MENEMEN PLANE OF WESTERN TURKEY**
BALIK ŞANLI F., KURUCU Y., ESETLILI M. T., ABDİKAN S.
XXIst ISPRS Congress, 3 - 11 July 2008, pp.75-81

LIII. **Fusion of sar images PALSAR and RADARSAT 1 with multispectral spot image a comparative analysis of resulting images**
ABDİKAN S., BALIK ŞANLI F., Bektas Balcik F., Goksel C.
XXI ISPRS Congress, Beijing, China, 3 - 11 July 2008

Supported Projects

ABDİKAN S., Özdemir E. G., Project Supported by Higher Education Institutions, Çoklu uydu verileri kullanılarak orman toprak üstü biyokütle kestirimi, 2022 - Continues

Görüm T., Abdikan S., Süzen M. L., Şen Ö. L., TUBITAK Project, Identification and Monitoring of Landslides Triggered by 06 February 2023 Mw 7.8 and Mw 7.6 Earthquakes and Assessment of Cascading Geomorphic Hazard Potentials, 2023 - 2026

Balık Şanlı F., Abdikan S., Bayık Ç., Bayrak O. C., Narin Ö. G., Acar U., TUBITAK Project, Automatic Detection of Coastline

and Sea Ice Classes Using Deep Learning: Antarctic-Marguerite Bay Case, 2023 - 2025

Abdikan S., TÜBİTAK International Bilateral Joint Cooperation Program Project, Monitoring Rice Fields by Joint Use of Multi-temporal SAR and Optical Data for Yield and Growth Estimation, 2023 - 2025

Abdikan S., Pepe A., EU Supported Other Project, Global climate change, sea level Rise, Extreme Events and local ground subsidence effects in coastal and river delta regions through Novel and Integrated remote sensing approacHes, 2020 - 2024

ABDİKAN S., BAYIK Ç., Project Supported by Higher Education Institutions, Konya Karapınar bölgesinde meydana gelen yüzey hareketlerinin belirlenmesi, 2021 - 2023

Abdikan S., Aktuğ B., TUBITAK Project, Jeodezik Ölçülerle Yerkabugu Rijidite Degisimlerinin Belirlenmesi, 2018 - 2021

Abdikan S., Industrial Organizations of Other Countries Supported Project, Earth Surface Deformation Monitoring Using L-band Interferometric SAR data, 2016 - 2021

Abdikan S., Narin Ö. G., Project Supported by Higher Education Institutions, Bitki Gelişim Evrelerinin Uzaktan Algılama Yöntemi İle İncelenmesi , 2018 - 2020

Abdikan S., Balık Şanlı F., Üstüner M., Esetlili M. T., Bilgin G., Project Supported by Higher Education Institutions, POLARIMETRİK AYRIŞTIRMA YÖNTEMLERİNİN TARIMSAL ÜRÜN DESENİ TESPİTİNDEKİ ETKİSİNİN ARAŞTIRILMASI, 2017 - 2020

Abdikan S., Madenoğlu S., TAGEM Tarımsal Araştırmalar ve Politikalar Genel Müdürlüğü Projesi, Toprak Nemi ve Toprak Pürüzlülüğünün Konumsal ve Zamansal Değişiminin Mikrodalga Uydu Görüntüleriyle Belirlenmesi ve İzlenmesİ, 2014 - 2020

Abdikan S., Other International Funding Programs, Sinkhole Subsidence Monitoring in Konya Basin with Interferometric SAR Time Series Analysis, 2011 - 2018

Abdikan S., Industrial Organizations of Other Countries Supported Project, Deformation monitoring in mega city Istanbul with TerraSAR-X using InSAR time series analyses. , 2013 - 2015

Activities in Scientific Journals

GEO-SPATIAL INFORMATION SCIENCE, Committee Member, 2020 - Continues

Memberships / Tasks in Scientific Organizations

International Society for Photogrammetry and Remote Sensing, Member, 2016 - 2022, Germany

Peer Reviews in Scientific Publications

IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, SCI Journal, February 2021

Scientific Consultations

TÜBİTAK BİLGEM, Scientific Consultancy, Zonguldak Bülent Ecevit Üniversitesi, Faculty Of Engıneerıng, Geomatik Mühendisliği Bölümü, Turkey, 2017 - 2018

Tasks In Event Organizations

Abdikan S., International Symposium On Applied Geoinformatics, Scientific Congress, İstanbul, Turkey, Kasım 2019

Abdikan S., ISPRS ISPRS Technical Commission III WG III/2, 10 Joint Workshop Multidisciplinary Remote Sensing for Environmental Monitoring, Workshop Organization, Kyoto, Japan, Mart 2019

Metrics

Publication: 96
Citation (WoS): 825
Citation (Scopus): 1125
H-Index (WoS): 15
H-Index (Scopus): 17

Scholarships

Huygens Scholarship, Official Institutions of Foreign Countries, 2009 - 2011

Awards

Coşkun S., Abdikan S., Balık Şanlı F., En iyi sözlü sunum, Uzaktan Algılama Ve Coğrafi Bilgi Sistemleri Sempozyumu, October 2024

Abdikan S., Calò F., Balık Şanlı F., Pepe A., Görüm T., En iyi sözlü sunum, Uzaktan Algılama Ve Coğrafi Bilgi Sistemi Sempozyumu, January 2014

Abdikan S., Balık Şanlı F., Bektaş Balçık F., Göksel Ç., En iyi poster sunum ödülü, International Society For Photogrammetry And Remote Sensing, January 2008

Non Academic Experience

TÜBİTAK BİLGEM, Danışman
Delft University of Technology, Araştırmacı