

## Assoc. Prof. SAYGIN ABDİKAN

### Personal Information

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### International Researcher IDs

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ScopusID: 55515101500

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### 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

Associate Professor, Hacettepe University, Mühendislik Fakültesi, Geomatik Mühendisliği Bölümü, 2020 - Continues

Associate Professor, Zonguldak Bülent Ecevit University, Faculty Of Engineering, 2019 - 2020

Assistant Professor, Zonguldak Bülent Ecevit University, Faculty Of Engineering, 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 Engineering, 2016 - 2019

### Advising 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 insar 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, pp.277-285, 2024 (SCI-Expanded)
- II. **Mass movement evaluation in deformed clastic rock with InSAR technique**  
Bayık 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., Yılmaz 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., Keceli 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., Arıkan 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**  
Bayik 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**  
Nasirzadehdzaji 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., Arıkan 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 yöntemlerinin istatistiksel 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 & Book Chapters

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

## Refereed Congress / Symposium Publications in Proceedings

- I. **CROP HEIGHT ESTIMATION OF WHEAT USING SENTINEL-1 SATELLITE IMAGERY: PRELIMINARY RESULTS**  
Narin O., Bayık C., Sekertekin A., Madenoglu S., Pınar 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. **PREDICTION OF LONG-TERM SENTINEL-1 INSAR TIME SERIES ANALYSIS**  
ABDİKAN S., Coskun S., Narin O., Bayık 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
- III. **Land Subsidence Analysis Using PAZ and Sentinel-1 Data on the Karstic Region of Konya Basin, Turkey**  
Abdikan S., Bayık Ç., Calò 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
- IV. **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

- V. **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
- VI. **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
- VII. **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
- VIII. **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
- IX. **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
- X. **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
- XI. **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
- XII. **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
- XIII. **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
- XIV. **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
- XV. **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), İstanbul, Turkey, Turkey, 11 - 14 June 2019

- XVI. **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
- XVII. **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
- XVIII. **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
- XIX. **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
- XX. **SENTİNEL-2A VERİSİ KULLANARAK TARIMSAL ÜRÜN DESENİNİN BELİRLENMESİ**  
NARİN Ö. G., DELEN A., ABDİKAN S.  
UZAL-CBS 2018, Turkey, 18 - 21 September 2018
- XXI. **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
- XXII. **AN APPLICATION OF ROLL-INVARIANT POLARIMETRIC FEATURES FOR CROP CLASSIFICATION FROM MULTI-TEMPORAL RADARSAT-2 SAR DATA**  
ÜSTÜNER M., BALIK ŞANLI F., ABDİKAN S., Esetili 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
- XXIII. **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
- XXIV. **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
- XXV. **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
- 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. **Assessment of ALOS PALSAR 25-m mosaic data for land cover mapping**  
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2017 9th International Workshop on the Analysis of Multitemporal Remote Sensing Images (MultiTemp), Brugge, Belgium, Belgium, 27 - 29 June 2017
- XXVIII. **Performance Analysis of Landsat 8 OLI Images to Determine Land Use/Cover Using TCT and Pansharpening Methods**  
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- XXIX. **Uzaktan Algılama Görüntülerinden Konuma Bağlı Bilgi Üretimi Araştırmalarında Zonguldak Test**

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VI. Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu, Adana, Turkey, 5 - 07 October 2016

- XXX. **Bitki Örtüsü İndekslerinin Tarımsal Ürün Deseni Tespitindeki Etkisinin Araştırılması**  
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- XXXV. **Comparison of crop classification methods for the sustainable agriculture management**  
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- XXXVIII. **Kırmızı-Kenar Ve Yakın Kızılötesi Bantlarının Ürün Deseni Sınıflandırma Doğruluğuna Olan Etkisinin Araştırılması**  
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- XLI. **İnterferometrik SAR Yöntemi ile Maden Alanlarında Meydana Gelen Çökmelerin Belirlenmesi**  
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IV. Jeolojik Uzaktan Algılama Sempozyumu, Antalya, Turkey, 13 - 14 March 2014
- XLII. **FUSION OF TERRASAR-X AND RAPIDEYE DATA: A QUALITY ANALYSIS**  
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- XLIII. **InSAR Zaman Serileri ile Yer Yüzeyi Hareketlerinin İzlenmesi: Türkiye Zonguldak Kozlu Maden Alanı**



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XLIV. **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

XLV. **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

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XLVII. **AN ALGORITHM FOR COASTLINE DETECTION USING SAR IMAGES**

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22nd Congress of the International-Society-for-Photogrammetry-and-Remote-Sensing, Melbourne, Australia, 25 August - 01 September 2012, pp.457-460

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III. Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu, Kocaeli, Turkey, 11 - 13 October 2010

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LI. **SOIL MOISTURE ESTIMATION FROM RADARSAT 1 ASAR AND PALSAR DATA IN AGRICULTURAL FIELDS OF MENEMEN PLANE OF WESTERN TURKEY**

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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., TUBİTAK 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, POLARİMETRİK 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 İzlenmesi, 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

## Scientific Refereeing

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

## Scientific Consultations

TÜBİTAK BİLGEM, Scientific Consultancy, Zonguldak Bülent Ecevit Üniversitesi, Faculty Of Engineering, 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: 95

Citation (WoS): 825

Citation (Scopus): 1125

H-Index (WoS): 15

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## **Scholarships**

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

## **Non Academic Experience**

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Delft University of Technology