

Prof. Elif Sertel



Personal Information

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International Researcher IDs

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ScopusID: 21934838300

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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Geomatik Mühendisliği (Dr), Turkey 2004 - 2008

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Turkey 2002 - 2004

Undergraduate, Istanbul Technical University, Turkey 1997 - 2002

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Remote sensing and regional climate modeling of impacts of land cover changes on the climate of the Marmara region of Turkey, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2008

Postgraduate, Farklı çözünürlükteki uydu görüntülerinin geometrik dönüşümü ve dönüşüm sonucunda elde edilen görüntülerin dış doğruluğunun araştırılması, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2004

Research Areas

Geotechnical Engineering, Geographic Information Systems, Environmental Information Systems, Map, Remote sensing, Image Processing, Earth Observations (Remote Sensing), Engineering and Technology

Academic Titles / Tasks

Professor, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, 2016 - Continues

Associate Professor, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, 2010 - 2016

Assistant Professor, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, 2009 - 2010

Research Assistant, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, 2002 - 2009

Researcher, Rutgers, The State University of New Jersey, Cook College, Department Of Environmental Sciences, 2006 - 2008

Academic and Administrative Experience

Director of the Center, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, 2012 - 2021

Deputy Director of the Center, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, 2009 - 2012

Advising Theses

Sertel E., A DEEP LEARNING BASED FRAMEWORK FOR IDENTIFICATION OF SHIP TYPES USING OPTICAL SATELLITE IMAGES, Doctorate, S.KIZILKAYA(Student), 2023

Sertel E., Açıklanabilir yapay zeka yöntemleri ile toprak tuzluluğu haritalarının üretilmesi, Postgraduate, S.AKSOY(Student), 2023

Sertel E., YOLO TABANLI DERİN ÖĞRENME MODELLERİ İLE YÜKSEK ÇÖZÜNÜRLÜKLÜ UYDU GÖRÜNTÜLERİNDE UÇAK TESPİTİ, Postgraduate, B.YABAN(Student), 2023

Sertel E., Earthquake damage detection with satellite imagery and deep learning approaches: A case study of the february 2023, Kahramanmaraş, Turkey earthquake sequence, Postgraduate, F.ELİK(Student), 2023

Sertel E., Makine öğrenimi tabanlı sınıflandırma yöntemleri kullanılarak çay bahçelerinin belirlenmesi, Postgraduate, B.SÜSLÜ(Student), 2023

Sertel E., YÜKSEK ÇÖZÜNÜRLÜKLÜ UYDU VERİLERİ KULLANILARAK ŞEHİR ALANLARININ İNCELENMESİ, Doctorate, R.HALE(Student), 2022

Sertel E., SINGLE-FRAME AND MULTI-FRAME SUPER-RESOLUTION ON REMOTE SENSING IMAGES VIA DEEP LEARNING APPROACHES, Doctorate, P.WANG(Student), 2022

Sertel E., Evrişimli sinir ağları ile yüksek çözünürlüklü uydu görüntülerinden uçak tespiti, Postgraduate, E.DİLŞAD(Student), 2021

Sertel E., High-resolution soil salinity mapping using machine learning based regression and classification methods, Postgraduate, A.YILDIRIM(Student), 2021

Sertel E., Land cover classification using cloud-based machine learning techniques: A case study from Istanbul Metropolitan City, Postgraduate, Ş.DURMAZBİLEK(Student), 2021

Sertel E., Land cover and land use classification of multi-modal high-resolution satellite images using multi-task deep learning approach, Postgraduate, B.EKİM(Student), 2021

Sertel E., Building detection from very high resolution satellite images with deep learning approach, Postgraduate, E.ÖZAYDIN(Student), 2021

Sertel E., Estimation emission from crop residue burning based on crop type using remote sensing data: A case study from GAP region, Postgraduate, K.BAHŞI(Student), 2020

Sertel E., Automatic airplane detection using deep learning techniques and very high-resolution satellite images, Postgraduate, B.TRAORE(Student), 2020

Sertel E., Aircraft detection from large scale remote sensing images with deep learning techniques, Postgraduate, M.SOYDAŞ(Student), 2019

Sertel E., Semantic land cover and land use classification using deep convolutional neural networks, Postgraduate, B.GÜNEY(Student), 2019

Sertel E., Super resolution methods for remote sensing images, Postgraduate, Ç.TUNA(Student), 2017

Sertel E., Aktif uzaktan algılama verileri ve CBS destekli hidrolojik model kullanılarak Büyükçekmece havzasının incelenmesi, Doctorate, M.ZEKİ(Student), 2017

Sertel E., Farklı insansız hava araçları ile elde edilen görüntülerin otomatik fotogrametrik yöntemlerle değerlendirilmesi ve doğruluk analizi, Postgraduate, D.Bilge(Student), 2016

Sertel E., Uydu verisi ve peyzaj metrikleri kullanılarak şehir yapılarının karşılaştırılması: Karabük ili merkez ve Safranbolu ilçeleri örneği, Postgraduate, D.ŞİMŞEK(Student), 2016

Sertel E., Mısır ve pamuk ekili alanların çok zamanlı uydu görüntüleri ve obje tabanlı sınıflandırma yöntemi ile tespiti, Postgraduate, Y.Başak(Student), 2015

Sertel E., Objeye tabanlı sınıflandırma yaklaşımı ile 3. seviye ulusal arazi örtüsü/kullanımının belirlenmesi, Postgraduate, Ş.Özge(Student), 2015

Sertel E., Güncel arazi örtüsü/kullanım haritalarının doğrudan ve dolaylı yaklaşımlar ile üretilmesi, Postgraduate, G.ALP(Student), 2015

Sertel E., Determination of Drought Conditions in Turkey Between 2004 and 2013 Using Indices Derived From Remotely Sensed Data, Postgraduate, N.Molavizadeh(Student), 2015

Sertel E., Multitemporal change detection on Urmia Lake and its catchment area using remote sensing and geographical information systems, Postgraduate, Y.Alizade(Student), 2014

Sertel E., Trakya bölgesi bağ alanlarının uzaktan algılama ve coğrafi bilgi sistemleri teknikleri ile incelenmesi, Doctorate, E.Özelkan(Student), 2014

Sertel E., Şehir Atlası Projesi Pilot Uygulaması : Gaziantep İli Örneği, Postgraduate, S.Sami(Student), 2014

Sertel E., Determination of drought conditions in Turkey between 2004 and 2013 using indices derived from remotely sensed data, Postgraduate, N.MOLAVIZADEH(Student), 2014

Sertel E., Üzüm çeşitlerinin spectral kütüphanesinin hazırlanması ve nesne tabanlı sınıflandırma yöntemiyle bağ alanlarının belirlenmesi, Postgraduate, I.Yay(Student), 2013

Sertel E., Drought assessment by means of MODIS data, Postgraduate, S.KOCAASLAN(Student), 2013

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Yıldız Teknik Üniversitesi, September, 2021

Research Infrastructure Information

Sertel E., Uydu Haberleşme ve Uzaktan Algılama Merkezi, May 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Multi-frame super-resolution of remote sensing images using attention-based GAN models**
Wang P., Sertel E.
Knowledge-Based Systems, vol.266, 2023 (SCI-Expanded)
- II. **Analysis of the association between image resolution and landscape metrics using multi-sensor LULC maps**
Varol B., Szabo S., Topaloğlu R. H., Aksu A. G., Sertel E.
JOURNAL OF ENVIRONMENTAL PLANNING & MANAGEMENT, vol.1, pp.1-22, 2023 (SSCI)
- III. **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)
- IV. **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)
- V. **Agricultural Land Abandonment in Bulgaria: A Long-Term Remote Sensing Perspective, 1950–1980**
Kabadayı M. E., Ettehadı Osgouei P., Sertel E.
LAND, vol.11, no.10, pp.1-24, 2022 (SCI-Expanded)
- VI. **Comparative analysis of deep learning based building extraction methods with the new VHR Istanbul**

dataset

Bakırman T., Komurcu I., Sertel E.

Expert Systems with Applications, vol.202, 2022 (SCI-Expanded)

- VII. **A comprehensive review on deep learning based remote sensing image super-resolution methods**
Wang P., Bayram B., Sertel E.
EARTH-SCIENCE REVIEWS, vol.232, 2022 (SCI-Expanded)
- VIII. **Land Use and Land Cover Mapping Using Deep Learning Based Segmentation Approaches and VHR Worldview-3 Images**
Sertel E., Ekim B., Ettehadi Osgouei P., Kabadayi M. E.
REMOTE SENSING, vol.14, no.18, pp.1-21, 2022 (SCI-Expanded)
- IX. **VHRShips: An Extensive Benchmark Dataset for Scalable Deep Learning-Based Ship Detection Applications**
Kızılkaya S., Algancı U., Sertel E.
ISPRS International Journal of Geo-Information, vol.11, no.8, 2022 (SCI-Expanded)
- X. **Deep Learning Based Road Extraction from Historical Maps**
Avcı C., Sertel E., Kabadayi M. E.
IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, vol.19, pp.1-5, 2022 (SCI-Expanded)
- XI. **Integrated usage of historical geospatial data and modern satellite images reveal long-term land use/cover changes in Bursa/Turkey, 1858-2020**
Ettehadi Osgouei P., Sertel E., Kabadayi M. E.
SCIENTIFIC REPORTS, vol.12, no.1, 2022 (SCI-Expanded)
- XII. **Evaluation and comparison of MODIS and VIIRS aerosol optical depth (AOD) products over regions in the Eastern Mediterranean and the Black Sea**
Osgouei P. E., Roberts G., Kaya S., Bilal M., Dash J., Sertel E.
ATMOSPHERIC ENVIRONMENT, vol.268, pp.1-20, 2022 (SCI-Expanded)
- XIII. **Assessing the performance of machine learning algorithms for soil salinity mapping in Google Earth Engine platform using Sentinel-2A and Landsat-8 OLI data**
Aksoy S., Yildirim A., Gorji T., Hamzehpour N., Tanik A., Sertel E.
ADVANCES IN SPACE RESEARCH, vol.69, no.2, pp.1072-1086, 2022 (SCI-Expanded)
- XIV. **High-resolution land use and land cover change analysis using GEOBIA and landscape metrics: A case of Istanbul, Turkey**
Topaloglu R. H., Aksu G. A., Ghale Y. A. G., Sertel E.
GEOCARTO INTERNATIONAL, vol.37, no.25, pp.9071-9097, 2022 (SCI-Expanded)
- XV. **Deep neural network ensembles for remote sensing land cover and land use classification**
Ekim B., Sertel E.
INTERNATIONAL JOURNAL OF DIGITAL EARTH, vol.14, no.12, pp.1868-1881, 2021 (SCI-Expanded)
- XVI. **Channel-spatial attention-based pan-sharpening of very high-resolution satellite images**
Wang P., Sertel E.
KNOWLEDGE-BASED SYSTEMS, vol.229, 2021 (SCI-Expanded)
- XVII. **Automatic Road Extraction from Historical Maps Using Deep Learning Techniques: A Regional Case Study of Turkey in a German World War II Map**
Ekim B., Sertel E., Kabadayi M. E.
ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION, vol.10, no.8, 2021 (SCI-Expanded)
- XVIII. **Super-resolution of remotely sensed data using channel attention based deep learning approach**
Wang P., Bayram B., Sertel E.
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.42, no.16, pp.6050-6067, 2021 (SCI-Expanded)
- XIX. **Rethinking CNN-Based Pansharpening: Guided Colorization of Panchromatic Images via GANs**
Ozcelik F., Algancı U., Sertel E., Ünal G.
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, vol.59, no.4, pp.3486-3501, 2021 (SCI-Expanded)
- XX. **Soil salinity analysis of Urmia Lake Basin using Landsat-8 OLI and Sentinel-2A based spectral indices and electrical conductivity measurements**

- Gorji T., Yildirim A., Hamzehpour N., Tanik A. G., Sertel E.
ECOLOGICAL INDICATORS, vol.112, 2020 (SCI-Expanded)
- XXI. **Comparative Research on Deep Learning Approaches for Airplane Detection from Very High-Resolution Satellite Images**
Algancı U., Soydas M., Sertel E.
REMOTE SENSING, vol.12, no.3, 2020 (SCI-Expanded)
- XXII. **Vineyard site suitability analysis by use of multicriteria approach applied on geo-spatial data**
Algancı U., Kuru G. N., Yay Algan I., Sertel E.
GEOCARTO INTERNATIONAL, vol.34, pp.1286-1299, 2019 (SCI-Expanded)
- XXIII. **Impacts of Land Cover/Use Changes on Hydrological Processes in a Rapidly Urbanizing Mid-latitude Water Supply Catchment**
Sertel E., Imamoglu M. Z., Cüceloğlu G., Erturk A.
WATER, vol.11, 2019 (SCI-Expanded)
- XXIV. **Separating Built-Up Areas from Bare Land in Mediterranean Cities Using Sentinel-2A Imagery**
Osgouei P. E., Kaya Ş., Sertel E., Algancı U.
REMOTE SENSING, vol.11, 2019 (SCI-Expanded)
- XXV. **COMPARING TWO DIFFERENT SPATIAL INTERPOLATION APPROACHES TO CHARACTERIZE SPATIAL VARIABILITY OF SOIL PROPERTIES IN TUZ LAKE BASIN - TURKEY**
Gorji T., Algancı U., Sertel E., Tanik A. G.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, no.2, pp.986-992, 2019 (SCI-Expanded)
- XXVI. **Estimation of emissions from crop residue burning using remote sensing data**
Bahsi K., Salli B., Kılıç D., Sertel E.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.19, pp.94-105, 2019 (SCI-Expanded)
- XXVII. **Spatial Analysis of Two Different Urban Landscapes Using Satellite Images and Landscape Metrics**
Simsek D., Sertel E.
PHOTOGRAMMETRIC ENGINEERING AND REMOTE SENSING, vol.84, no.11, pp.711-721, 2018 (SCI-Expanded)
- XXVIII. **Comparison of Landscape Metrics for Three Different Level Land Cover/Land Use Maps**
Sertel E., Topaloğlu R. H., Şallı B., Algan I. Y., Aksu G. A.
ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION, vol.7, no.10, 2018 (SCI-Expanded)
- XXIX. **Automated Orthorectification of VHR Satellite Images by SIFT-Based RPC Refinement**
Kartal H., Algancı U., Sertel E.
ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION, vol.7, 2018 (SCI-Expanded)
- XXX. **Accuracy Assessment of Different Digital Surface Models**
Algancı U., Besol B., Sertel E.
ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION, vol.7, 2018 (SCI-Expanded)
- XXXI. **OIL SPILL DETECTION USING REMOTE SENSING TECHNOLOGIES-SYNTHETIC APERTURE RADAR (SAR)**
Papila I., Sertel E., Kaya Ş., Gazioglu C.
OIL SPILL ALONG THE TURKISH STRAITS SEA AREA; ACCIDENTS, ENVIRONMENTAL POLLUTION, SOCIO-ECONOMIC IMPACTS AND PROTECTION, vol.47, pp.140-156, 2018 (SCI-Expanded)
- XXXII. **Single-frame super resolution of remote-sensing images by convolutional neural networks**
Tuna C., Ünal G., Sertel E.
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.39, no.8, pp.2463-2479, 2018 (SCI-Expanded)
- XXXIII. **Monitoring soil salinity via remote sensing technology under data scarce conditions: A case study from Turkey**
Gorji T., Sertel E., Tanik A. G.
Ecological Indicators, vol.74, pp.384-391, 2017 (SCI-Expanded)
- XXXIV. **RECENT SATELLITE TECHNOLOGIES FOR SOIL SALINITY ASSESSMENT WITH SPECIAL FOCUS ON MEDITERRANEAN COUNTRIES**
Gorji T., Sertel E., Tank A. G.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, no.1, pp.196-203, 2017 (SCI-Expanded)

- XXXV. **Comparison of pixel and object-based classification for burned area mapping using SPOT-6 images**
Sertel E., ALGANCI U.
GEOMATICS NATURAL HAZARDS & RISK, vol.7, no.4, pp.1198-1206, 2016 (SCI-Expanded)
- XXXVI. **Vineyard parcel identification from Worldview-2 images using object-based classification model**
Sertel E., YAY I.
JOURNAL OF APPLIED REMOTE SENSING, vol.8, 2014 (SCI-Expanded)
- XXXVII. **Estimating maize and cotton yield in southeastern Turkey with integrated use of satellite images, meteorological data and digital photographs**
Alganci U., OZDOGAN M., Sertel E., ORMECI C.
FIELD CROPS RESEARCH, vol.157, pp.8-19, 2014 (SCI-Expanded)
- XXXVIII. **Parcel-Level Identification of Crop Types Using Different Classification Algorithms and Multi-Resolution Imagery in Southeastern Turkey**
Alganci U., Sertel E., Ozdogan M., ORMECI C.
PHOTOGRAMMETRIC ENGINEERING AND REMOTE SENSING, vol.79, no.11, pp.1053-1065, 2013 (SCI-Expanded)
- XXXIX. **Reply to: Akyilmaz, O., 2010. Discussion of: Sertel, E.; Cigizoglu, H.K., and Sanli, D.U., 2008. Estimating Daily Mean Sea Level Heights Using Artificial Neural Networks. Journal of Coastal Research, 24(3), 727-734; Journal of Coastal Research, 26(6), 1184-1184**
Sertel E., Cigizoglu H. K., Sanli D. U.
JOURNAL OF COASTAL RESEARCH, vol.27, no.4, pp.791-792, 2011 (SCI-Expanded)
- XL. **Comparison of Planimetric and Thematic Accuracy of OrbView-3 and IKONOS Images**
Yanalak M., Sertel E., Musaoglu N., İpbüker C., Kaya Ş.
JOURNAL OF THE INDIAN SOCIETY OF REMOTE SENSING, vol.39, no.2, pp.135-146, 2011 (SCI-Expanded)
- XLI. **Modelling land cover change impact on the summer climate of the Marmara Region, Turkey**
Sertel E., Ormeci C., Robock A.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.3, pp.194-202, 2011 (SCI-Expanded)
- XLII. **Impacts of land cover data quality on regional climate simulations**
Sertel E., Robock A., Ormeci C.
INTERNATIONAL JOURNAL OF CLIMATOLOGY, vol.30, no.13, pp.1942-1953, 2010 (SCI-Expanded)
- XLIII. **IMPACTS OF LAND USE/LAND COVER CHANGE ON CLIMATE AND FUTURE RESEARCH PRIORITIES**
Mahmood R., PIELKE R. A., HUBBARD K. G., Niyogi D., BONAN G., LAWRENCE P., MCNIDER R., MCALPINE C., ETTER A., GAMEDA S., et al.
BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY, vol.91, no.1, pp.37-46, 2010 (SCI-Expanded)
- XLIV. **Determination of chlorophyll-a amount in Golden Horn, Istanbul, Turkey using IKONOS and in situ data**
Ormeci C., Sertel E., Sarikaya O.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.155, pp.83-90, 2009 (SCI-Expanded)
- XLV. **Identification of Earthquake Induced Damage Areas Using Fourier Transform and SPOT HRVIR Pan Images**
Sertel E.
SENSORS, vol.9, no.3, pp.1471-1484, 2009 (SCI-Expanded)
- XLVI. **Exploring impacts on environment: of road transportation a spatial approach**
Demirel H., Sertel E., KAYA Ş., SEKER D. Z.
DESALINATION, vol.226, pp.279-288, 2008 (SCI-Expanded)
- XLVII. **Estimating daily mean sea level heights using artificial neural networks**
Sertel E., Cığzoğlu H. K., Sanli D. U.
JOURNAL OF COASTAL RESEARCH, vol.24, no.3, pp.727-734, 2008 (SCI-Expanded)
- XLVIII. **Assessment of landscape changes in the Kizilirmak Delta, Turkey, using remotely sensed data and GIS**
Sertel E., FINDIK N., Kaya Ş., Şeker D. Z., SAMSUNLU A.
ENVIRONMENTAL ENGINEERING SCIENCE, vol.25, no.3, pp.353-361, 2008 (SCI-Expanded)
- XLIX. **Multi-temporal analysis and mapping of coastal erosion caused by open-mining areas**

Kaya S., Sertel E., SEKER D. Z., TANIK A. G.

ENVIRONMENTAL FORENSICS, vol.9, pp.271-276, 2008 (SCI-Expanded)

L. 3D COASTAL EROSION ANALYSIS OF KILYOS - KARABURUN REGION USING MULTI-TEMPORAL SATELLITE IMAGE DATA

Seker D. Z., Kaya S., Alkan R. M., Tanik A. G., Saroglu E.

FRESENIUS ENVIRONMENTAL BULLETIN, vol.17, pp.1977-1982, 2008 (SCI-Expanded)

LI. Use of semivariograms to identify earthquake damage in an urban area

Sertel E., Kaya S., Curran P. J.

IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, vol.45, no.6, pp.1590-1594, 2007 (SCI-Expanded)

LII. Geometric correction accuracy of different satellite sensor images: application of figure condition

Sertel E., KUTOGLU S. H., Kaya S.

INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.28, no.20, pp.4685-4692, 2007 (SCI-Expanded)

Articles Published in Other Journals

I. A benchmark dataset for deep learning-based airplane detection: HRPlanes

Bakirman T., Sertel E.

International Journal of Engineering and Geosciences, vol.8, no.3, pp.212-223, 2023 (ESCI)

II. A comprehensive analysis of different geometric correction methods for the Pleiades-1A and Spot-6 satellite images

Özcihan B., Özlü L. D., Karakap M. İ., Sürmeli H., Algancı U., Sertel E.

International Journal of Engineering and Geosciences, vol.8, no.2, pp.146-153, 2023 (ESCI)

III. Comparative Analysis on Deep Learning based Pan-sharpening of Very High-Resolution Satellite Images

Wang P., ALGANCI U., SERTEL E.

International Journal of Environment and Geoinformatics, vol.8, 2021 (Peer-Reviewed Journal)

IV. Uydu Görüntüsü İşleme ve Sıkıştırma Süreçlerinin WEB Tabanlı Harita Servisi Yayın Performansına Etkilerinin Araştırılması

Durkut Z., Algancı U., Sertel E.

GEOMATİK, vol.5, no.3, pp.186-192, 2020 (ESCI)

V. Remote sensing approaches and mapping methods for monitoring soil salinity under different climate regimes

Gorji T., Yildirim a., SERTEL E., TANIK A. G.

International Journal of Environment and Geoinformatics, vol.6, no.1, pp.33-49, 2019 (Peer-Reviewed Journal)

VI. Determination of the Olive Trees with Object Based Classification of Pleiades Satellite Image

Algancı U., Sertel E., Kaya Ş.

International Journal of Environment and Geoinformatics, vol.5, pp.132-139, 2018 (Peer-Reviewed Journal)

VII. 1:25000 ölçekli ulusal Arazi Örtüsü/Kullanımı Sınıflandırma Sistemi ile HGK TOPO Veritabanının Karşılaştırılması

Sertel E., Musaoğlu N., Alp G., Yay I., Kaya Ş., Yüksel B., Yılmaz A.

Harita Dergisi, vol.160, pp.34-46, 2018 (Peer-Reviewed Journal)

VIII. 1:25.000 Ölçekli Ulusal Arazi Örtüsü/Kullanımı Sınıflandırma Sistemi ile HGK TOPOVT Veritabanının Karşılaştırılması

SERTEL E., MUSAOĞLU N., KAYA Ş., YAY I., Alp g., YÜKSEL b., YILMAZ A.

Harita Dergisi, vol.160, pp.34-46, 2018 (Peer-Reviewed Journal)

IX. Yüksek Çözünürlüklü Uydu Verileri Kullanılarak 1:25000 Ölçekli Ulusal Arazi Örtüsü/Kullanımı Sınıflandırma Sisteminin Geliştirilmesi

Sertel E., Algan Yay I., Alp G., Musaoğlu N., Kaya Ş.

Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.17, pp.231-244, 2017 (Peer-Reviewed Journal)

- X. **Analysis Of Different Interpolation Methods For Soil Moisture Mapping Using Field Measurements And Remotely Sensed Data**
imamođlu m. z., SERTEL E.
International Journal of Environment and Geoinformatics, vol.3, no.3, pp.11-25, 2016 (Peer-Reviewed Journal)
- XI. **Drought Conditions in Turkey Between 2004 and 2013 Via Drought Indices Derived from Remotely Sensed Data**
Molavizadeh N., Sertel E., Demirel H.
Energy, Transportation and Global Warming, pp.113-121, 2016 (Scopus)
- XII. **High resolution mapping of urban areas using SPOT-5 images and ancillary data**
Sertel E., AKAY S. S.
International Journal of Environment and Geoinformatics, vol.2, pp.63-76, 2015 (Peer-Reviewed Journal)
- XIII. **Soil Salinity Prediction, Monitoring and Mapping Using Modern Technologies**
Sertel E., Tanık A. G., Gorji T.
Procedia Earth and Planetary Science, vol.15, pp.507-512, 2015 (Peer-Reviewed Journal)
- XIV. **Deprem Hasarlarının Uzaktan Algılama Verileri İle Belirlenmesi**
Kaya Ş., Sertel E.
İTÜ Vakfı Dergisi, no.66, pp.32-36, 2014 (Non Peer-Reviewed Journal)
- XV. **DEM Accuracy of High Resolution Satellite Images**
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24th EARSeL Symposium New Strategies for European Remote Sensing, Dubrovnik, India, 25 - 27 May 2004, pp.161-165

Supported Projects

Sertel E., Project Supported by Higher Education Institutions, Derin Öğrenme Tabanlı Süper-çözünürlük Yaklaşımları ile Yüksek Çözünürlüklü Uzaktan Algılama Verilerinin Kalite Arttırımı, 2023 - Continues

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

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Sertel E., Project Supported by Higher Education Institutions, TARİHİ HAVA FOTOĞRAFLARINDAN DERİN ÖĞRENME TABANLI ARAZİ ÖRTÜSÜ/ARAZİ KULLANIMI SEGMENTASYONU, 2023 - 2023

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

Sertel E., Kabadayı E., Horizon Europe Project, A GeoAI-based Land Use Land Cover Segmentation Process to Analyse and Predict Rural Depopulation, 2022 - 2023

Sertel E., Aş. A., TUBITAK Project, SAR ve Multispektral Uydu Görüntüleri Kullanımına Dayalı, Tarla Düzeyinde Ekim Tespiti Sisteminin Tasarımı ve Geliştirilmesi, 2022 - 2023

Sertel E., Kabadayı E., H2020 Project, UrbanOccupationsOETR, Industrialisation and Urban Growth from the mid-nineteenth century Ottoman Empire to Contemporary Turkey in a Comparative Perspective, 1850- 2000, 2021 - 2022

Sertel E., BAKIRMAN T., Project Supported by Higher Education Institutions, Derin Öğrenme Yöntemleri ile Otomatik Bina Çıkarımı, 2020 - 2021

Sertel E., Algancı U., Kaya Ş., Kartal M., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, İTÜ UYDU YER TERMİNALİ YENİLEME PROJESİ, 2016 - 2021

Sertel E., TÜBA Project, Farklı çözünürlükteki uydu verilerini kullanarak şehir haritaları oluşturulması ve şehirlerdeki zamansal değişimlerin otomatik olarak belirlenmesi, 2017 - 2020

Sertel E., Yay Algan I., Musaoğlu N., EKERCİN S., AKSU A. G., Şallı B., Topaloğlu R. H., Project Supported by Higher Education Institutions, Uydu görüntülerinin mekansal çözünürlüğünün peyzaj metrikleri ile olan ilişkisinin araştırılması, 2017 - 2020

Sertel E., Project Supported by Higher Education Institutions, ACCURACY ASSESSMENT OF ASTER GLOBAL DEM OVER TURKEY, 2010 - 2018

Sertel E., Project Supported by Higher Education Institutions, Farklı Uzaktan Algılama Uydularından Elde Edilen Görüntüler İle İstanbul İli Arazi Örtüsü / Kullanım Haritasının Oluşturulması, 2014 - 2015

Sertel E., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Ulusal Arazi Örtüsü Veritabanı 2012, 2013 - 2015

Sertel E., Project Supported by Higher Education Institutions, Urmiye Gölündeki Zamansal Değişimlerin Uzaktan Algılama Ve CBS Kullanılarak Belirlenmesi, 2013 - 2015

Sertel E., TUBITAK Project, Konya Kapalı Havzası'ndaki Hidrolojik, İklimsel ve Arazi Kullanımı/Örtüsü Değişimlerinin Tuz Gölü'ne Etkilerinin Araştırılması ve Koruyucu Yönetim Stratejilerinin Belirlenmesi, 2011 - 2014

Sertel E., TUBITAK Project, Rize il Genelinde Afet Bilgi ve Meteorolojik Erken Uyarı Sistemi Kurulması Projesi,, 2006 - 2008

Sertel E., Musaoğlu N., Yanalak M., TUBITAK Project, Orbview-3 Uydu Görüntülerinin Doğruluğunun ve Mühendislik Uygulamalarında Kullanım Olanaklarının Araştırılması, 2006 - 2008

Sertel E., Kaya Ş., TUBITAK Project, Filyos Çayı Havzasının genel karakteristiklerinin uydu görüntü verileri ve sayısal arazi modeli ile Analizi, 2005 - 2007

Sertel E., Project Supported by Other Official Institutions, Uydu Görüntülerinin Geometrik Dönüşümünde Doğruluk Araştırması, 2004 - 2005

Activities in Scientific Journals

GISCIENCE AND REMOTE SENSING, Committee Member, 2023 - Continues

INTERNATIONAL JOURNAL OF APPLIED EARTH OBSERVATION & GEOINFORMATION, Committee Member, 2023 - Continues

International Journal Of Digital Earth, Editor, 2022 - Continues

Geocarto International, Editor, 2022 - Continues

ITC JOURNAL, Special Issue Editor, 2022 - 2023

Remote Sensing, Special Issue Editor, 2021 - 2022

Memberships / Tasks in Scientific Organizations

Tübitak, Executive Board Member, 2022 - Continues, Turkey
IEEE, Member, 2019 - Continues, United States Of America
IEEE GRS Society, Member, 2019 - Continues, United States Of America
HKMO, Member, 2002 - Continues

Scientific Refereeing

REMOTE SENSING OF ENVIRONMENT, SCI Journal, November 2021
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, SCI Journal, November 2021
EUROPEAN JOURNAL OF REMOTE SENSING, SCI Journal, November 2021
GEOCARTO INTERNATIONAL, SCI Journal, October 2021
ISPRS JOURNAL OF PHOTOGRAMMETRY AND REMOTE SENSING, SCI Journal, May 2021
NEW CLUSTERING APPROACH USING ONE SAMPLE T-TEST TECHNIQUE IN CASE OF INSUFFICIENT REMOTE SENSING DATA, Other Indexed Journal, February 2017
February 2017
TUBITAK Project, February 2017
September 2016
International Journal Of Climatology, SCI Journal, April 2016
February 2016
Environmental Engineering Science, SCI Journal, December 2015
September 2015
July 2015
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Climatic Changes, SCI Journal, April 2013
February 2013
July 2012
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IEEE Geoscience and Remote Sensing Letters, SCI Journal, October 2011
IEEE Transactions on Geoscience and Remote Sensing, SCI Journal, April 2011
January 2011
January 2010

Tasks In Event Organizations

Sertel E., Karaköse M., Gazi V., Kaynak Y., Öztop H. F., Güngör V. Ç., Doğu Anadolu Bölgesi Çevrimiçi Tübitak 2237-B Proje Eđitimi Etkinliđi - Tübitak Endüstri Odaklı Bilimsel Arařtırma Projesi Hazırlama Eđitimi, Workshop Organization, Turkey, Temmuz 2021

Metrics

Publication: 209
Citation (WoS): 1797
Citation (Scopus): 2076
H-Index (WoS): 23
H-Index (Scopus): 23

Congress and Symposium Activities

Geoadvances2024, Session Moderator, İstanbul, Turkey, 2024

Geoadvances2024, Invited Speaker, İstanbul, Turkey, 2024

Invited Talks

Drought monitoring with Earth Observation Data and Machine Learning methods, Workshop, ECMWF-ESA Workshop on Machine Learning for Earth Observation and Prediction, England, November 2022

Deep Learning based Super Resolution in Remote Sensing for Agriculture, Seminar, International Association of Geoinformatics, United States Of America, November 2022

Earth Observation Data for Geospatial Artificial Intelligence , Conference, Pattern Recognition in Remote Sensing Workshop 2022, Canada, August 2022

Geospatial Artificial Intelligence (GeoAI) Methods for Remote Sensing Applications, Workshop, Earth Observation solutions for sustainable development: Hands-on e-shape climate services Workshop, Turkey, July 2022

Bilim ve Teknolojide Kadının Gücü , Seminar, TÜBİTAK , Turkey, February 2022

Yer Gözlem Uyduları ve Uzaktan Algılama, Seminar, TÜBİTAK Bilim Söyleşileri , Turkey, February 2022

Deep Learning Applications in Remote Sensing, Conference, ESA EO Phi Week, Italy, October 2021

Uzaktan Algılama Uygulamalarında Derin Öğrenme, Seminar, Turkish AI Hub, Turkey, July 2020

Scholarships

Fulbright Phd Scholarship, Fulbright Program, 2006 - 2008

PhD Scholarship-THE SCIENTIFIC AND TECHNOLOGICAL RESEARCH COUNCIL OF TURKEY, TUBITAK, 2004 - 2008

Awards

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

Sertel E., TÜBİTAK Incentive Award, Tübitak , November 2021

Ekim B., Sertel E., En İyi Yüksek Lisans Tezi, Ieee Grss Turkey , July 2021

Sertel E., Outstanding Young Scientist Award-Turkish Academy of Sciences, Türkiye Bilimler Akademisi, December 2017

Sertel E., Ranked as the 1st Student among the 2002 Graduates of Geomatics Engineering Department, Istanbul Technical University, June 2002

Non Academic Experience

TÜBİTAK

Technology Development Zone, İTUNOVA A.Ş., İTUNOVA A.Ş.

Rutgers Üniversitesi