

Prof. Elif Sertel



Personal Information

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Education Information

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

Post Graduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Turkey 2002 - 2004

Under Graduate, Istanbul Technical University, Turkey 1997 - 2002

Foreign Languages

English

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

Post Graduate, 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

Manager of Research and Application Center, Istanbul Technical University, 2012 - 2021

Courses

Quantitative Remote Sensing, Doctorate, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021
ADVANCED REMOTE SENSING, Under Graduate, 2019 - 2020, 2020 - 2021
Spec. Topics in Remote Sens., Under Graduate, 2018 - 2019, 2019 - 2020, 2020 - 2021
Principles of Remote Sensing, Post Graduate, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021
BİLİMSEL ETİK VE SEMİNER, Post Graduate, 2020 - 2021
Databases in Engineering, Under Graduate, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021
Surveying, Under Graduate, 2016 - 2017
SPECIAL TOPICS IN RS, Under Graduate, 2017 - 2018
Surveying, Under Graduate, 2015 - 2016
Geostatistics, Under Graduate, 2015 - 2016
Geostatistics, Doctorate, 2013 - 2014

Advising Theses

Sertel E., Derin öğrenme yaklaşımları kullanarak otomatik bina çıkartımı , Post Graduate, E.Özaydın(Student), 2021
Sertel E., Automatic airplane detection using deep learning techniques and very high-resolution satellite images, Post Graduate, B.TRAORE(Student), 2020
Sertel E., Estimation emission from crop residue burning based on crop type using remote sensing data: A case study from GAP region, Post Graduate, K.BAHŞİ(Student), 2020
Sertel E., Semantic land cover and land use classification using deep convolutional neural networks, Post Graduate, B.GÜNEY(Student), 2019
Sertel E., Aircraft detection from large scale remote sensing images with deep learning techniques, Post Graduate, M.SOYDAŞ(Student), 2019
Sertel E., Aktif uzaktan algılama verileri ve CBS destekli hidrolojik model kullanılarak Büyükçekmece havzasının incelenmesi, Doctorate, M.ZEKİ(Student), 2017
Sertel E., Super resolution methods for remote sensing images, Post Graduate, Ç.TUNA(Student), 2017
Sertel E., Farklı insansız hava araçları ile elde edilen görüntülerin otomatik fotogrametrik yöntemlerle değerlendirilmesi ve doğruluk analizi, Post Graduate, D.Bilge(Student), 2016
Sertel E., Uydu verisi ve peyzaj metrikleri kullanılarak şehir yapılarının karşılaştırılması: Karabük ili merkez ve Safranbolu ilçeleri örneği, Post Graduate, D.ŞİMŞEK(Student), 2016
Sertel E., Mısır ve pamuk ekili alanların çok zamanlı uydu görüntüleri ve obje tabanlı sınıflandırma yöntemi ile tespiti, Post Graduate, Y.Başak(Student), 2015
Sertel E., Obje tabanlı sınıflandırma yaklaşımı ile 3. seviye ulusal arazi örtüsü/kullanımının belirlenmesi, Post Graduate, Ş.Özge(Student), 2015
Sertel E., Güncel arazi örtüsü/kullanım haritalarının doğrudan ve dolaylı yaklaşımlar ile üretilmesi, Post Graduate, G.ALP(Student), 2015
Sertel E., Determination of Drought Conditions in Turkey Between 2004 and 2013 Using Indices Derived From Remotely Sensed Data, Post Graduate, N.Molavizadeh(Student), 2015
Sertel E., Multitemporal change detection on Urmia Lake and its catchment area using remote sensing and geographical information systems, Post Graduate, 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, Post Graduate, S.Sami(Student), 2014
Sertel E., Determination of drought conditions in Turkey between 2004 and 2013 using indices derived from remotely

sensed data, Post Graduate, N.MOLAVIZADEH(Student), 2014

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

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

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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., Kabadayı M. E.
ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION, vol.10, no.8, pp.1-14, 2021 (Journal Indexed in SCI Expanded)
- II. **Channel-spatial attention-based pan-sharpening of very high-resolution satellite images**
Wang P., Sertel E.
Knowledge-Based Systems, pp.1-12, 2021 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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., Hamzhepour N., Tanik A. G. , Sertel E.
ECOLOGICAL INDICATORS, vol.112, 2020 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **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 (Journal Indexed in

SCI)

- XIII. **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 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **Accuracy Assessment of Different Digital Surface Models**
Algancı U., Besol B., Sertel E.
ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION, vol.7, 2018 (Journal Indexed in SCI)
- XVI. **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 (Journal Indexed in SCI)
- XVII. **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 (Journal Indexed in SCI Expanded)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **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 (Journal Indexed in SCI)
- XX. **Vineyard parcel identification from Worldview-2 images using object-based classification model**
Sertel E., YAY I.
JOURNAL OF APPLIED REMOTE SENSING, vol.8, 2014 (Journal Indexed in SCI)
- XXI. **Estimating maize and cotton yield in southeastern Turkey with integrated use of satellite images, meteorological data and digital photographs**
Algancı U., OZDOGAN M., Sertel E., ORMECI C.
FIELD CROPS RESEARCH, vol.157, pp.8-19, 2014 (Journal Indexed in SCI)
- XXII. **Parcel-Level Identification of Crop Types Using Different Classification Algorithms and Multi-Resolution Imagery in Southeastern Turkey**
Algancı U., Sertel E., Ozdogan M., ORMECI C.
PHOTOGRAMMETRIC ENGINEERING AND REMOTE SENSING, vol.79, no.11, pp.1053-1065, 2013 (Journal Indexed in SCI)
- XXIII. **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 (Journal Indexed in SCI)
- XXIV. **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 (Journal Indexed in SCI)
- XXV. **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 (Journal Indexed in SCI)
- XXVI. **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 (Journal Indexed in SCI)
- XXVII. **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 (Journal Indexed in SCI)
- XXVIII. **Determination of chlorophyll-a amount in Golden Horn, Istanbul, Turkey using IKONOS and in situ data**
Ormeçi C., Sertel E., Sarıkaya O.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.155, pp.83-90, 2009 (Journal Indexed in SCI)
- XXIX. **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 (Journal Indexed in SCI)
- XXX. **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 (Journal Indexed in SCI)
- XXXI. **Estimating daily mean sea level heights using artificial neural networks**
Sertel E., Cığızoğlu H. K., Sanlı D. U.
JOURNAL OF COASTAL RESEARCH, vol.24, no.3, pp.727-734, 2008 (Journal Indexed in SCI)
- XXXII. **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 (Journal Indexed in SCI)
- XXXIII. **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., Saroğlu E.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.17, pp.1977-1982, 2008 (Journal Indexed in SCI)
- XXXIV. **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 (Journal Indexed in SCI)
- XXXV. **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 (Journal Indexed in SCI)
- XXXVI. **Geometric correction accuracy of different satellite sensor images: application of figure condition**
Sertel E., KUTOĞLU S. H., Kaya S.
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.28, no.20, pp.4685-4692, 2007 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Comparative Analysis on Deep Learning based Pan-sharpening of Very High-Resolution Satellite Images**
Sertel E., Algancı U., Wang P.
International Journal of Environment and Geoinformatics, vol.8, no.2, pp.150-165, 2021 (Journal Indexed in ESCI)
- II. **Uydu Görüntüsü İşleme ve Sıkıştırma Süreçlerinin WEB Tabanlı Harita Servisi Yayın Performansına Etkilerinin Araştırılması**
Durkut Z., ALGANCI U., SERTEL E.
Geomatik, vol.5, no.3, pp.186-192, 2020 (Other Refereed National Journals)
- III. **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 (Refereed Journals of Other)

Institutions)

- IV. **Determination of the Olive Trees with Object Based Classification of Pleiades Satellite Image**
ALGANCI U., SERTEL E., KAYA Ş.
International Journal of Environment and Geoinformatics, vol.5, pp.132-139, 2018 (Refereed Journals of Other Institutions)
- V. **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., YILMAZ A.
HARİTA DERGİSİ, 2018 (Other Refereed National Journals)
- VI. **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 (Other Refereed National Journals)
- VII. **Yüksek Çözünürlüklü Uydu Verileri Kullanılarak 1:25000 Ölçekli Ulusal Arazi Örtüsü/Kullanımı Sınıflandırma Sisteminin Geliştirilmesi**
SERTEL E., algan yay ı, alp g., MUSAOĞLU N., KAYA Ş.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, 2017 (Other Refereed National Journals)
- VIII. **Analysis Of Different Interpolation Methods For Soil Moisture Mapping Using Field Measurements And Remotely Sensed Data**
imamoğlu m. z. , SERTEL E.
International Journal of Environment and Geoinformatics, vol.3, no.3, pp.11-25, 2016 (Refereed Journals of Other Institutions)
- IX. **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 (Refereed Journals of Other Institutions)
- X. **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 (Refereed Journals of Other Institutions)
- XI. **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 (Refereed Journals of Other Institutions)
- XII. **Deprem Hasarlarının Uzaktan Algılama Verileri İle Belirlenmesi**
Kaya Ş., Sertel E.
İTÜ Vakfı Dergisi, no.66, pp.32-36, 2014 (National Non-Refereed Journal)
- XIII. **DEM Accuracy of High Resolution Satellite Images**
YANALAK M., İPBÜKER C., MUSAOĞLU N., SERTEL E., KAYA Ş.
Lecture Notes in Computer Science, 2012 (Refereed Journals of Other Institutions)
- XIV. **Uydu Görüntülerinde Mekansal Çözünürlüğün Tarım Alanlarının ve Ürün Tiplerinin Belirlenmesine Etkisinin Araştırılması: Şanlıurfa Örneği**
Algancı U., Sertel E., ÖRMECİ C., OZDOĞAN M.
Jeodezi, Jeoinformasyon ve Arazi Yönetimi, no.105, pp.21-27, 2011 (Other Refereed National Journals)
- XV. **Tekirdağ İli Bağ Alanlarının Mekânsal Dağılımının Topografik Parametreler ile Olan İlişkisinin CBS Kullanarak Belirlenmesi**
Sertel E., Özelkan E., Şeker D. Z. , Yay Algan I., Gündüz A., Sağlam M.
Jeodezi, Jeoinformasyon ve Arazi Yönetimi Dergisi, vol.3, pp.92-96, 2011 (Other Refereed National Journals)
- XVI. **Bölgesel İklim Modellemede Kullanılan Arazi Örtüsü Verilerinin Doğruluğunun Araştırılması**
Sertel E., Örmeci C.
İTÜ Dergisi, vol.8, no.3, pp.29-38, 2009 (National Refreed University Journal)

Books & Book Chapters

- I. **Production of a Land Cover/Land Use (LC/LU) Map of Izmir Metropolitan City by Using High-Resolution Images**
Sertel E., Topaloğlu R. H. , Bahşi K., Varol B., Musaoğlu N.
in: Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions (2nd Edition), Mohamed Ksibi, Achraf Ghorbal, Sudip Chakraborty, Helder I. Chaminé, Editor, Springer, London/Berlin , London, pp.1837-1846, 2021
- II. **Comparative Research on Deep Learning Approaches for Airplane Detection from VeryHigh-Resolution Satellite Images**
ALGANCI U., Soydaş M., SERTEL E.
in: Artificial Neural Networks and Evolutionary Computation in Remote Sensing, Kavzoglu Taskin, Editor, MDPI, Basel, pp.169-196, 2020
- III. **Drought Conditions in Turkey Between 2004 and 2013 Via Drought Indices Derived from Remotely Sensed Data**
nazila M., SERTEL E., DEMİREL H.
in: Energy Transportation and Global Warming, Grammelis, Panagiotis, Editor, Springer, pp.113-121, 2016
- IV. **Determination of Human Induced Coastal Changes Using RS, GIS and Geostatistics**
Sertel E., Şeker D. Z.
in: Coastal Hazards, Finkl C W., Editor, Springer-Verlag , New York, pp.85-97, 2012
- V. **Identification of Earthquake Induced Damage Areas**
Sertel E.
in: Earth science : new methods and studies, Roy H. Williams, Editor, Apple Academic Hoover Press, Toronto, pp.112-123, 2012
- VI. **Spatial Analyses for Environmental Impacts of Landfill Areas**
Şeker D. Z. , Kaya Ş., Musaoğlu N., Demirel H., Tanık A. G. , Sertel E.
in: Survival and Sustainability, Environmental Earth Sciences, Gökçekuş H., Editor, Springer-Verlag , Berlin, pp.691-697, 2011

Refereed Congress / Symposium Publications in Proceedings

- I. **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), Zagreb, Croatia, 1 - 04 August 2021, pp.1-5
- II. **A Multi-Task Deep Learning Framework for Building Footprint Segmentation**
Ekim B., Sertel E.
International Geoscience and Remote Sensing Symposium (IGARSS), Brussels, Belgium, 11 - 16 July 2021, pp.1-4
- III. **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., Algancı U., Aksoy S.
2nd Intercontinental Geoinformation Days (IGD, 5 - 06 May 2021, pp.156-162
- IV. **Automatic Building Segmentation using Deep Learning Techniques: Case Study for Istanbul, Turkey**
Bakırman T., Sertel E.
American Association of Geographers 2021, Washington, United States Of America, 7 - 11 April 2021, pp.1-2
- V. **Sentinel-1 based flood mapping using interferometric coherence and intensity change detection approach**
Papila Í., ALGANCI U., SERTEL E.
International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, Nice, France, 31 August - 02 September 2020, vol.32020, pp.1697-1703

- VI. **Mapping Soil Salinity by Using Landsat 8OLI Imagery and Regression Analysis over Bonab Country of east Azerbaijan Province in Iran**
Gorji T., Yıldırım A., Hamzhepour N., SERTEL E., TANIK A. G.
International Symposium on Applied Geoinformatics (ISAG 2019), 7 - 09 November 2019, vol.1, pp.504-507
- VII. **Comparison of Different Soil Salinity indices Derived from Sentinel-2A Images**
Yıldırım A., Gorji T., Hamzhepour N., SERTEL E., TANIK A. G.
International Symposium on Applied Geoinformatics (ISAG 2019), 7 - 09 November 2019, vol.1, pp.230-233
- VIII. **Investigation of Open Source Geo-Information Integration Impact on Object-Based Classification Accuracy: A Case Study in Istanbul With Sentinel-2 Images**
VAROL B., TOPALOĞLU R. H. , SERTEL E.
International Symposium on Applied Geoinformatics, 7 - 09 November 2019
- IX. **IMPROVED URBAN LAND COVER/USE MAPPING USING SENTINEL-2A IMAGERY**
Ettehadı Ousgei P., KAYA Ş., SERTEL E., ALGANCI U.
International Symposium on Applied Geoinformatics (ISAG-2019), İstanbul, Turkey, 7 - 09 November 2019, vol.1, pp.296-301
- X. **SEPARATING OLIVE TREES FROM AGRICULTURAL AREAS AND BARE LANDS BY USING SPECTRAL INDICES WITH MULTI-TEMPORAL SENTINEL-2 IMAGES**
AKÇAY H. M. , KAYA Ş., SERTEL E., ALGANCI U.
International Symposium on Applied Geoinformatics (ISAG-2019), İstanbul, Turkey, 7 - 09 November 2019, vol.1, pp.415-420
- XI. **Evaluation Of Satellite AOD Observations for Monitoring Air Quality**
OSGOUEI P., KAYA Ş., SERTEL E.
International Symposium on Applied Geoinformatics, 7 - 09 November 2019
- XII. **COMPARATIVE ANALYSIS OF DIGITAL SURFACE MODEL EXTRACTION APPROACHES FOR TRI-STEREO SATELLITE IMAGES**
ALGANCI U., SERTEL E., KAYA Ş., Beşol B.
International Symposium on Applied Geoinformatics (ISAG-2019), İstanbul, Turkey, 7 - 09 November 2019, vol.1, pp.35-39
- XIII. **Characterizing Spatial Variability in Lake Urmia by Applying Geo-Statistical Methods**
Gorji T., Yıldırım A., Hamzhepour N., SERTEL E., TANIK A. G.
8th International Conference on Agro-Geoinformatics, 16 - 19 July 2019
- XIV. **Crop Mapping Improvement by Combination of Optical and SAR dataets**
Nasirzadehdizaji R., BALIK ŞANLI F., ÇAKIR Z., SERTEL E.
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Scholarships

Fulbright Phd Scholarship, Fulbright Program, 2006 - 2008

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Awards

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