

Res. Asst. PhD Mustafa ÜSTÜNER

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Publons / Web Of Science ResearcherID: A-4287-2016

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Biography

Mustafa Ustuner is a PhD candidate in Geomatic Engineering at Yildiz Technical University, Turkey. His research interests include SAR Polarimetry, machine learning for image classification and ensemble learning algorithms. He is the member of [IEEE Geoscience and Remote Sensing Society \(GRSS\)](#), [ISPRS - International Society for Photogrammetry and Remote Sensing](#) and [Remote Sensing and Photogrammetry Society \(RSPSoc\)](#). He serves as a reviewer for the journals such as [IEEE Transactions on Geoscience and Remote Sensing](#), [IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing](#), [International Journal of Remote Sensing](#), Remote Sensing Letters, Computers and Electronics in Agriculture, Journal of Applied Remote Sensing and European Journal of Remote Sensing.

He received the award for [Top Reviewers for Geosciences - September 2018](#) from Publons. Furthermore, he voluntarily works for the IEEE GRSS as the [social media ambassador lead](#) as well as the [social media coordinator for ISPRS Student Consortium](#). He loves [tweeting](#) about remote sensing, geoscience and space technology.

He was short term visiting scholar at [University of South Florida, St. Petersburg \(USFSP\)](#), United States during his master's studies in 2013 and was a visiting researcher at [Friedrich-Schiller University of Jena](#), Germany during his doctoral research in 2018.

After his PhD, he will start working at Department of Geomatic Engineering of [Artvin Çoruh University](#), Turkey.

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Education Information

2014 - Continues	Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Turkey
2011 - 2014	Postgraduate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Harita Mühendisliği, Turkey
2006 - 2010	Undergraduate, Yıldız Technical University, Mühendislik Fakültesi, Jeodezi Ve Fotogrametri Mühendisliği, Turkey

Dissertations

2020	Polarimetrik SAR Görüntülerinin Ürün Deseni Tespitinde Kullanabilirliği: Karşılaştırmalı Analiz, Yıldız Technical University, Graduate School of Natural and Applied Sciences, Doctorate
2013	Destek vektör makineleri yöntemi ile arazi kullanımı sınıflandırılmasında kernel fonksiyonlarına ait karşılaştırmalı parametre duyarlık analizi: Rapideye ve spot örneği, Yıldız Technical University, Graduate School of Natural and Applied Sciences, Postgraduate

Research Areas

Geotechnical Engineering, Remote sensing, Engineering and Technology

Academic Titles / Tasks

2011 - Continues	Research Assistant, Yıldız Technical University, Faculty Of Civil Engineering, Geomatic Engineering
2010 - 2011	Research Assistant, Artvin Coruh University, Faculty Of Engineering, Department Of Topographical Engineering

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Sensitivity Analysis of Multi-Temporal Sentinel-1 SAR Parameters to Crop Height and Canopy Coverage**
Nasirzadehdizaji R., Balik Sanli F., Abdikan S., Çakır Z., Şekertekin A., Üstüner M.
APPLIED SCIENCES-BASEL, vol.9, 2019 (SCI-Expanded)
- II. **Polarimetric Target Decompositions and Light Gradient Boosting Machine for Crop Classification: A Comparative Evaluation**
Üstüner M., Sanli F. B.
ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION, vol.8, 2019 (SCI-Expanded)
- III. **COMPARISON OF CROP CLASSIFICATION METHODS FOR THE SUSTAINABLE AGRICULTURE MANAGEMENT**
ÜSTÜNER M., Esetlili M. T., Sanli F. B., Abdikan S., Kurucu Y.
JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY, vol.17, no.2, pp.648-655, 2016 (SCI-Expanded)
- IV. **Enhancing land use classification with fusing dual-polarized TerraSAR-X and multispectral RapidEye data**
Abdikan S., BİLGİN G., Sanli F. B., USLU E., ÜSTÜNER M.
JOURNAL OF APPLIED REMOTE SENSING, vol.9, 2015 (SCI-Expanded)
- V. **Application of Support Vector Machines for Landuse Classification Using High-Resolution RapidEye Images: A Sensitivity Analysis**
Üstüner M., Sanli F. B., Dixon B.
EUROPEAN JOURNAL OF REMOTE SENSING, vol.48, pp.403-422, 2015 (SCI-Expanded)

Articles Published in Other Journals

- I. **Crop classification using multi-temporal polarimetric SAR data**
Üstüner M., Balık Şanlı F.
Jeodezi ve Jeoinformasyon Dergisi, vol.0, no.0, pp.1-10, 2019 (Peer-Reviewed Journal)
- II. **Comparison of Object and Pixel-Based Classifications for Mapping Crops Using Rapideye Imagery: A Case Study of Menemen Plain, Turkey**
Esetlili T. M., Bektaş Balçık F., Balık Şanlı F., Üstüner M., Kalkan K., Göksel Ç., Gazioğlu C., Kurucu Y.
International Journal of Environment and Geoinformatics, vol.5, no.2, pp.231-243, 2018 (Peer-Reviewed Journal)
- III. **EVALUATING TRAINING DATA FOR CROP TYPE CLASSIFICATION USING SUPPORT VECTOR MACHINES AND RANDOM FORESTS**
Üstüner M., Balık Şanlı F.
Geodetski Glasnik, vol.51, no.48, pp.125-133, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **A Booster Analysis of Extreme Gradient Boosting for Crop Classification using PolSAR Imagery**
ÜSTÜNER M., Sanli F. B., Abdikan S., BİLGİN G., Göksel Ç.
8th International Conference on Agro-Geoinformatics, Agro-Geoinformatics 2019, İstanbul, Turkey, 16 - 19 July 2019
- II. **An assessment of urban area extraction using ALOS-2 data**
Abdikan S., Bayik C., Sanli F. B., ÜSTÜNER M.
9th International Conference on Recent Advances in Space Technologies, RAST 2019, İstanbul, Turkey, 11 - 14 June 2019, pp.403-406
- III. **EVALUATING THE CLOUDE-POTTIER DECOMPOSITION FOR CROP CLASSIFICATION USING MULTI-TEMPORAL RADARSAT-2 DATA**
ÜSTÜNER M., BALIK ŞANLI F., Abdikan S., Erten E., Lopez Martinez C.
POLinSAR 2019, the 9th International Workshop on Science and Applications of SAR Polarimetry and Polarimetric Interferometry, Frascati, Italy, 28 January 2019, pp.1-2
- IV. **An application of roll-invariant polarimetric features for crop classification from multi-temporal RADARSAT-2 SAR data**
ÜSTÜNER M., Sanli F., Abdikan S., ESETLİLİ M. T., BİLGİN G.
2018 ISPRS Technical Commission I Midterm Symposium on Innovative Sensing - From Sensors to Methods and Applications, Karlsruhe, Germany, 10 - 12 October 2018, vol.42, pp.451-456
- V. **Classification of forested areas using morphological profiles in dual polarized ALOS/ PALSAR data**
ÜSTÜNER M., BALIK ŞANLI F., Abdikan S.
IX Conference of the Italian Society of Remote Sensing, Floransa, Italy, 04 July 2018, pp.115
- VI. **Kernel extreme learning machines for PolSAR image classification using spatial features Uzamsal Öznitelikler Kullanılarak Çekirdek Tabanlı aşırı Öğrenme Makineleri ile PolSAR Görüntüsü Sınıflandırılması**
GÖKDAĞ Ü., ÜSTÜNER M., BİLGİN G., BALIK ŞANLI F.
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- VII. **Comparing the classification performances of supervised classifiers with balanced and imbalanced SAR data sets Eğitici Sınıflandırma Yöntemlerinin Dengeli ve Dengesiz SAR Veri Kümelerindeki Başarımlarının Karşılaştırılması**
ÜSTÜNER M., GÖKDAĞ Ü., BİLGİN G., BALIK ŞANLI F.
26th IEEE Signal Processing and Communications Applications Conference, SIU 2018, İzmir, Turkey, 2 - 05 May 2018, pp.1-4
- VIII. **Uzamsal Öznitelikler Kullanılarak Çekirdek Tabanlı Aşırı Öğrenme Makineleri ile PolSAR Görüntüsü Sınıflandırılması; Kernel Extreme Learning Machines for PolSAR Image Classification using Spatial Features**
Gökdağ Ü., ÜSTÜNER M., BİLGİN G., BALIK ŞANLI F.
IEEE 26th Conf. on Signal Processing and Communications Applications, İzmir, Turkey, 02 May 2018, pp.1-4
- IX. **Eğitici Sınıflandırma Yöntemlerinin Dengeli ve Dengesiz SAR Veri Kümelerindeki Başarımlarının Karşılaştırılması; Comparing the Classification Performances of Supervised Classifiers with Balanced and Imbalanced SAR Data Sets**
ÜSTÜNER M., Gökdağ U., BİLGİN G., BALIK ŞANLI F.
IEEE 26th Conf. on Signal Processing and Communications Applications, İzmir, Turkey, 02 May 2018, pp.1-4
- X. **Combining Landsat and ALOS data for land cover mapping Landsat ve ALOS Verilerini Kullanarak Arazi Örtüsü Haritasının Oluşturulması**
Abdikan S., ÜSTÜNER M., Sanli F., BİLGİN G.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017
- XI. **Land use and cover classification of Sentinel-1A SAR imagery: A case study of Istanbul Sentinel-1A SAR Görüntüsü ile Arazi Örtüsü ve Kullanımı Sınıflandırması: İstanbul Örneği**
ÜSTÜNER M., Sanli F. B., BİLGİN G., Abdikan S.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017

- XII. **LANDSAT-8 Uydu Görüntüsü ile Arazi Örtüsü Sınıflandırmasında Makine Öğrenme Algoritmalarının Kullanımı**
ÜSTÜNER M., BALIK ŞANLI F.
16. TÜRKİYE HARİTA BİLİMSEL VE TEKNİK KURULTAYI, Ankara, Turkey, 03 May 2017, pp.1-3
- XIII. **Land Use and Cover Classification of Sentinel-1A SAR Imagery: A Case Study of Istanbul**
ÜSTÜNER M., Sanli F. B., BİLGİN G., Abdikan S.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XIV. **Combining Landsat and ALOS Data for Land Cover Mapping**
Abdikan S., ÜSTÜNER M., Sanli F. B., BİLGİN G.
25th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 15 - 18 May 2017
- XV. **Bitki Örtüsü İndekslerinin Tarımsal Ürün Deseni Tespitindeki Etkisinin Araştırılması**
ÜSTÜNER M., BALIK ŞANLI F., Abdikan S.
6. UZAKTAN ALGILAMA VE CBS SEMPOZYUMU, Adana, Turkey, 05 October 2016, pp.271-275
- XVI. **Balanced vs Imbalanced Training Data: Classifying Rapideye Data With Support Vector Machines**
ÜSTÜNER M., BALIK ŞANLI F., Abdikan S.
XXIII ISPRS Congress 2016, Prag, Czech Republic, 12 July 2016, pp.379-384
- XVII. **LAND COVER MAPPING USING SENTINEL-1 SAR DATA**
Abdikan S., Sanli F., ÜSTÜNER M., Calò F.
23rd Congress of the International-Society-for-Photogrammetry-and-Remote-Sensing (ISPRS), Prague, Czech Republic, 12 - 19 July 2016, vol.41, pp.757-761
- XVIII. **Coastal Zone Detection in Istanbul using Landsat 8 OLI Image**
Bektas Balcik F., BALIK ŞANLI F., Göksel C., ÜSTÜNER M.
27th International Cartographic Conference, Rio De Janeiro, Brazil, 23 August 2015, pp.1
- XIX. **Investigating the Influence of Training Set Size for Crop Type Classification using RapidEye**
BALIK ŞANLI F., ÜSTÜNER M., BEKTAŞ BALÇIK F., GÖKSEL Ç.
27th International Cartographic Conference, Rio-De-Janeiro, Brazil, 23 - 28 August 2015
- XX. **Testing the Sensitivity of Vegetation Indices for Crop Type Classification using RapidEye Imagery**
ÜSTÜNER M., BALIK ŞANLI F.
FIG Working Week 2015, SOFYA, Bulgaria, 17 - 21 May 2015
- XXI. **On the Way to Vision of Cadastre 2034: Cadastre 2014 Performance of Turkey**
POLAT Z. A., ÜSTÜNER M., ALKAN M.
FIG Working Week 2015, Sofya, Bulgaria, 17 May 2015, pp.1-16
- XXII. **Crop Pattern Mapping Using Winner Takes All Classification**
ÜSTÜNER M., BALIK ŞANLI F.
Wavelength 2015 RSPSoc, 30 March - 01 April 2015
- XXIII. **Mitosis detection on histopathological images using statistical detection algorithms İstatistiksel Tespit Algoritmaları ile Histopatolojik Görüntülerde Mitoz Belirleme**
ÜSTÜNER M., BİLGİN G.
2015 23rd Signal Processing and Communications Applications Conference, SIU 2015, Malatya, Turkey, 16 - 19 May 2015, pp.540-543
- XXIV. **Crop Type Classification Using Vegetation Indices of RapidEye Imagery**
ÜSTÜNER M., BALIK ŞANLI F., ABDİKAN S., TOLGA E., KURUCU Y.
ISPRS Technical Commission VII Symposium, İstanbul, Turkey, 29 September - 02 October 2014
- XXV. **Fusion and Classification of Synthetic Aperture Radar and Multispectral Satellite Data**
BAKIRMAN T., BİLGİN G., Sanli F. B., USLU E., ÜSTÜNER M.
22nd IEEE Signal Processing and Communications Applications Conference (SIU), Trabzon, Turkey, 23 - 25 April 2014, pp.754-757
- XXVI. **Destek Vektor Makineleri Tekniği ile Sınıflandırma: RapidEye Örneği**
ÜSTÜNER M., BALIK ŞANLI F., Bektas Balcik F., Esetlili M. T.
Türkiye Ulusal Fotogrametri ve Uzaktan Algılama Birliği VII. Teknik Sempozyumu (TUFUAB'2013), Trabzon, Turkey, 23 May 2013, pp.1-5

XXVII. YENİDEN ÖRNEKLEMENİN SINIFLANDIRMA SONUCUNA ETKİSİ

BAYRAM B., Ustuner M.

Türkiye Ulusal Fotogrametri ve Uzaktan Algılama Birliği, 01 May 2013

XXVIII. FUSION OF TERRASAR-X AND RAPIDEYE DATA: A QUALITY ANALYSIS

Sanli F. B., Abdikan S., ESETLİLİ M. T., ÜSTÜNER M., Sunar F.

ISPRS Conference on Serving Society with Geoinformatics (SSG), Antalya, Turkey, 11 - 17 November 2013, pp.27-30

XXIX. Comparison of Neural Network and ISODATA Classifiers for Land Cover Assessment Using Optical Data

ÜSTÜNER M., BALIK ŞANLI F.

FIG Commission 3 Workshop 2012 Spatial Information, Informal Development, Property and Housing, Atina, Greece, 10 December 2012, pp.1

XXX. SAR Görüntülerinden Kıyı Şeridi Belirleme Algoritması

ACAR U., BAYRAM B., BALIK ŞANLI F., ÜSTÜNER M., SUNAR A. F., MAKTAV M. D.

IV. UZAKTAN ALGILAMA VE COĞRAFİ BİLGİ SİSTEMLERİ SEMPOZYUMU, Zonguldak, Turkey, 16 - 19 October 2012

Other Publications

- I. Destek vektör makineleri yöntemi ile arazi kullanımı sınıflandırılmasında kernel fonksiyonlarına ait karşılaştırmalı parametre duyarlık analizi: RapidEye ve Spot örneği

ÜSTÜNER M.

Other, pp.61, 2013

Supported Projects

2017 - 2020	POLARİMETRİK AYRIŞTIRMA YÖNTEMLERİNİN TARIMSAL ÜRÜN DESENİ TESPİTİNDEKİ ETKİSİNİN ARAŞTIRILMASI, Project Supported by Higher Education Institutions
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Scientific Refereeing

Continues	Remote Sensing Letters, SCI Journal
June 2017	International Journal of Remote Sensing, SCI Journal
May 2017	Journal of Applied Remote Sensing, SCI Journal
July 2013	International Journal of Remote Sensing, SCI Journal

Metrics

Publication: 39

Citation (WoS): 117

Citation (Scopus): 172

H-Index (WoS): 5

H-Index (Scopus): 5