

CURRICULUM VITAE

PERSONAL INFORMATION

Name, Surname Fusun BALIK ŞANLI
Address Yıldız Teknik Üniversitesi (YTÜ) Davutpaşa Kampüsü İnşaat Fakültesi, Harita Müh. Böl. 34220
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Nationality Turkish
Place and Date of Birth Kahramanmaraş/Turkey, August 10, 1970

WORK EXPERIENCE

Dates (from – to) 2020- onwards
Name and address of employer Division of Photogrammetry and Remote Sensing Department of Geomatics Engineering at
Yıldız Technical University
Occupation or position held Professor
Researcher and Lecturer : Digital Image Processing, Remote Sensing (Optical+SAR),
Photogrammetry, Scientific projects and publications

Dates (from – to) 2013-2019
Name and address of employer Division of Photogrammetry and Remote Sensing Department of Geomatics Engineering t Yıldız
Technical University
Occupation or position held Associate Professor
Researcher and Lecturer : Digital Image Processing, Remote Sensing (Optical+SAR),
Photogrammetry, Scientific projects and publications

Name and address of employer 2008–2013
Occupation or position held Division of Photogrammetry and Remote Sensing Department of Geomatics Engineering at
Yıldız Technical University
Main activities and responsibilities Assistant Prof.
Main activities and responsibilities Researcher and Lecturer : Digital Image Processing, Remote Sensing (Optical+SAR),
Photogrammetry, Scientific projects and publications

Dates (from – to) 2004–2008
Name and address of employer Division of Photogrammetry and Remote Sensing Department of Geomatics Engineering at
Yıldız Technical University
Occupation or position held Assistant Dr.
Main activities and responsibilities Researcher: Satellite data processing, digital image processing

Dates (from – to) 1995-2004
Name and address of employer Division of Photogrammetry and Remote Sensing Department of Geomatics Engineering at
Yıldız Technical University
Occupation or position held Research Assistant
Main activities and responsibilities Researcher: Satellite data processing, digital image processing

ADMINISTRATIVE WORK EXPERIENCE

Dates (from – to) 2018-onwards
Name and address of employer Istanbul Historical Peninsula Research Center of Yildiz Technical University
Occupation or position held Vice Head of Center
Main activities and responsibilities Research and administrative works

Dates (from – to) 2015-2018
Name and address of employer Historical Heritage Protection and Research Center of Yildiz Technical University
Occupation or position held Vice Head of Center
Main activities and responsibilities Research and administrative works

Dates (from – to) 2010-2013
Name and address of employer Department of Geomatics Engineering at Yildiz Technical University
Occupation or position held Vice Head of the Department
Main activities and responsibilities Administrative works

Dates (from – to) 2006- onwards
Name and address of employer Yildiz Technical University European Union Office
Occupation or position held Erasmus+ Departmental Coordinator
Main activities and responsibilities Inter-institutional Agreements and Mobility for students and staff

EDUCATION AND TRAINING

Dates (from – to) 2000-2004
Name and type of organization providing education and training Yildiz Technical University Graduate School of Natural and Applied Sciences
Principal subjects occupational skills Remote Sensing and Geographical Information System (GIS) PhD Program
covered SAR applications, Image Classification, Image Fusion
Title of qualification awarded PhD degree in Geomatics Engineering, Remote Sensing and (GIS)

In ordine di data /Dates (from – to) 1999 - 2000
Name and type of organisation providing education and training Geoinformatics, ITC Netherlands
Principal subjects occupational skills MSc Program,
covered Integration of radar interferometric products and optical images for detection of soil moisture
Title of qualification awarded MSc degree in Geomatics Eng., Remote Sensing and (GIS)

In ordine di data /Dates (from – to) 1989-1993
Name and type of organisation providing education and training Yildiz Technical University Geodetic and Photogrammetric Engineering , Istanbul, Turkey
Principal subjects occupational skills Remote sensing, Photogrammetry, GIS applications, Engineering surveying, Geodesy
covered
Title of qualification awarded Bachelor of Science in Geodetic and Photogrammetric Engineering.

RESEARCH ACTIVITIES

Recent Scientific Activities/Projects 2019 Co-Investigator, The Scientific and Technological Research Council Of Turkey -TÜBİTAK-119Y032, Investigation of Hydromorphological Modification Levels in Water Resources by Using Geographical Information Science and Technology and Development of a Decision Support Tool: Çayırova-Saz Stream
2019 Principle Investigator, YTU Scientific Research Projects Office FDK-2019-3552, The UAV-Based Analysis of Temporal Volume Change of Meander Structures in Büyük Menderes River

and the Effect of Extreme Events

2018 Principle Investigator, YTU Scientific Research Projects Office FBA-2017-3062, Investigation of Polarimetric Decomposition Methods For Crop Pattern Identification
2015 Co-Investigator, SI Imaging Service Kompsat-5 Project, Monitoring multi-temporal soil moisture exploiting X-band data

2017 Co-Investigator, DLR tandemx project ID: DEM_CALVAL1821, Quality assessment of Tandem-X DEM over urbanized and agricultural terrain of Turkey using multi-source SAR data

2016 Principle Investigator, SI Imaging Services, Republic of Korea, Monitoring multi-temporal soil moisture exploiting X-band data

2014 Co-Investigator, Republic of Turkey Ministry of Food, Agriculture and Livestock Project, Determination and monitoring of spatial and temporal variations of soil moisture and soil roughness using microwave and optical satellite data.

2013 Co-Investigator, DLR project (LAN1708) Deformation monitoring in mega city Istanbul with TerraSAR-X using InSAR time series analyses.

2012 Co-Investigator, DLR project (GEO1232) Monitoring of landslides on east part of North Anatolia Fault Zone (Kelkit Valley) using PS-InSAR method with TerraSAR-X data.

2011 Co-Investigator, ESA Category-1 (10050) Sinkhole subsidence monitoring in Konya basin with Interferometric SAR time series analysis.

2011 Co-Investigator, The Scientific and Technological Research Council Of Turkey - TÜBİTAK -111Y111, Monitoring Landslides Using GPS and PS-InSAR Techniques and Risk Analysis based on Disaster management Systems: Koyulhisar (Sivas) Landslide Case

2009 Principle Investigator ESA Category-1 (6543) Monitoring Subsidence Using PSInSAR: A Case Study for Zonguldak Mining Area.

2007 Principle Investigator ESA Category-1 (4907) Investigating the Mechanism of the Subsidence in Town of Guzelburc (Amik Basin, Hatay), Southern Turkey, Using Hydrologic and Tectonic Methods With the Aid of GPS-InSAR-Levelling Techniques.

2007 Co-Investigator The Scientific and Technological Research Council Of Turkey -TÜBİTAK-106Y293 Snowmelt Runoff Model for The Erzurum – Krkgöze Basin using Geographical Information System (GIS) And Remote Sensing (RS) Techniques

2006 Co-Investigator ESA Category-1 (3830) A Research on Determination of Different Soil Moisture Levels Using SAR (RADAR) Satellite Images

2006 Co-Investigator YTU Scientific Research Projects Office YTÜ-BAPK-26.05.03.03, A Research on Sustainable and Economically Recycling Real Estate Development Project: A Case Study for Istanbul Park

2006 Co-Investigator YTU Scientific Research Projects Office YTÜ-BAP-26-05-03-01 Investigating the Opportunities of Using GIS and Satellite Images for Determination of Structural Properties of the Earth in South Marmara Case

2005 Co-Investigator The Scientific and Technological Research Council Of Turkey -TUBİTAK-105 O 247 A Research on Determination of Different Soil Moisture Levels Using SAR (RADAR) Satellite Images.

2005 Co-Investigator The Scientific and Technological Research Council Of Turkey -TÜBİTAK-104Y325, Contribution of geomorphology in determining the structure of 3 dimensional depth and velocity vectors of North Anatolian Fault System tectonic geometry using geological and geophysical methods

2002 Co-Investigator AFAYBİS Research Fund of State Ministry, Designing An Information

System on Natural Emergency Hazard Management for Istanbul in the scope of E-government.

2002 Co-Investigator The Scientific and Technological Research Council Of Turkey -TUBITAK TOGTAG-2903, A research on capability of Mapping Natural and Cultural Vegetation type by Microwave Sensing Images.

2000 YTU- Research Funding, Consultancy on Producing Photogrammetric Digital Maps of İzmir.

2000 YTU- Research Funding, Photogrammetric Restoration and 3D Modeling of Eğrikemer.

1999 Co-Investigator ITC project, Application of Remote Sensing Techniques in the Estimation of Actual Evapotranspiration at the Eastern Boundary of The Serove Model, ITC EnschedeThe Netherlands

Publications in journals

U Acar, OS Yılmaz, M Çelen, AM Ateş, F Gülgen, **F Balık Şanlı**, Determination of Mucilage in The Sea of Marmara Using Remote Sensing Techniques with Google Earth Engine International Journal of Environment and Geoinformatics 8 (4), 423-434

C Bayik, S Abdikan, A Ozdemir, M Arıkan, **FB Sanli**, U Dogan, Investigation of the landslides in Beylikdüzü-Esenyurt Districts of Istanbul from InSAR and GNSS observations. Natural Hazards, pp. 1-20, 20 June 2021.

SS Akay, O Özcan, **FB Şanlı**, Quantification and visualization of flood-induced morphological changes in meander structures by UAV-based monitoring. Engineering Science and Technology, an International Journal.4 June 2021.

R Nasirzadehdizaji, Z Cakir, **FB Sanli**, S Abdikan, A Pepe, F Calò, Sentinel-1 interferometric coherence and backscattering analysis for crop monitoring. Computers and Electronics in Agriculture v185, pp106-118. 1June, 2021.

SS Akay, O Özcan, **FB Şanlı**, T Görüm, ÖL Şen, B Bayram
UAV-based evaluation of morphological changes induced by extreme rainfall events in meandering rivers. Plos one 15 (11).9 November 2020.

M. Imamoglu, F. Kahraman, Z.Çakir, **F. Balık Sanli**, Ground Deformation Analysis of Bolvadin (W. Turkey) by Means of Multi-Temporal InSAR Techniques and Sentinel-1 Data. REMOTE SENSING, 11(9), 1-17., Doi: 10.3390/rs11091069, May 2019.

A.H.Incekara, A. Delen, D.Z. Şeker, **F. Balık Şanlı**, T. Susam. Using Satellite Imageries and Orthophoto to Quantify Environmental Impact of Mining Activities in Forest Area. Fresenius Environmental Bulletin, 28(2), 806-812, February 2019

M. Ustuner, **F. Balık Sanli**, Polarimetric Target Decompositions and Light Gradient Boosting Machine for Crop Classification: A Comparative Evaluation. ISPRS International Journal of Geo-Information, 8(2), 1-15., Doi: 10.3390/ijgi8020097, Februaray 2019.

R. Nasirzadehdizaji, **F. Balık Sanli**, S. Abdikan, Z. Çakir, A. Şekertekin, M. Üstüner, Sensitivity Analysis of Multi-Temporal Sentinel-1 SAR Parameters to Crop Height and Canopy Coverage. APPLIED SCIENCES-BASEL, 9(4), 1-18., Doi: 10.3390/app9040655, January 2019.

M. Arekhi, C. Göksel, **F. Balık Sanli**, G.Senel, Comparative Evaluation of the Spectral and Spatial Consistency of Sentinel-2 and Landsat-8 OLI Data for Igneada Longos Forest. ISPRS International Journal of Geo-Information, 8(56), 1-13., Doi: 10.3390/ijgi8020056, January 2019.

M. T. Esetlili, F. Bektaş Balçık, **F. Balık Sanli**, M. Üstüner, K.Kalkan, C. Göksel, C. Gazioğlu, Y.Kurucu, Comparison of Object and Pixel-Based Classifications for Mapping Crops Using Rapideye Imagery: A Case Study of Menemen Plain, Turkey. International Journal of Environment and Geoinformatics, 5(2), 231-243., Doi: 10.30897/ijegeo, 2018.

- K.Ö Hastaoğlu, F. Poyraz, T. Türk, Y. Işık, F. Koçbulut, H. Duman, D.U. Şanlı, M. Demirel, **F. Balik Sanli**, Investigation of the success of monitoring slow motion landslides using Persistent Scatterer Interferometry and GNSS methods. *Survey Review*, 50(363), 475-486., Doi: 10.1080/00396265.2017.1295631, 2018.
- M. Arekhi,**F.Balik Şanlı**, A.Yeşil, U.Y. Ozkan, Detecting treeline dynamics in response to climate warming using forest stand maps and Landsat data in a temperate forest. *Forest Ecosystems*, 5(1), Doi: 10.1186/s40663-018-0141-3, 2018.
- F. Balik Şanlı**, A. Delen, Assessment of Vegetation Indices for the Determination of Agricultural Crop Types. *Journal of Environmental Protection and Ecology*, 19(1), 417-425, 2018.
- M. Üstüner, **F. Balik Şanlı**, Evaluating Training Data For Crop Type Classification Using Support Vector Machines and Random Forests. *Geodetski Glasnik*, 51(48), 125-133, 2017.
- F. Balik Sanli**, S. Abdikan, M. T. Esetlili, F. Sunar, Evaluation of image fusion methods using PALSAR, RADARSAT-1 and SPOT images for land use/ land cover classification, *Journal of the Indian Society of Remote Sensing*, 2016, 10.1007/s12524-016-0625-y
- M. D.I. Aldabash, **F. Balik Şanlı**, Analysis of Multi Temporal Satellite Imagery for Total Suspended Sediments in a Wave-Active Coastal Area-Gaza Strip Coastal Water, Palestine, February 2016, (1), 1-11 pp.,
- M. Üstüner · M.T. Esetlili · **F.B. Sanli**, S. Abdikan, ·Y. Kurucu, Comparison Of Crop Classification Methods For The Sustainable Agriculture Management, *Journal Of Environmental Protection And Ecology* Jul 2016 ·
- F. Calò S. Abdikan, T. Gorum, A. Pepe, H. Kilic, **F. Balik Sanli**, The space-borne SBAS-DInSAR technique as a supporting tool for sustainable urban policies: the case of Istanbul megacity, Turkey, *Remote Sens.* 2015, 7(12), 16519-16536; doi:10.3390/rs71215842
- M. Ustuner, **F. Balik Sanli**, B. Dixon, Application of Support Vector Machines for Landuse Classification Using High-Resolution RapidEye Images: A Sensitivity Analysis, *European Journal of Remote Sensing*, 2015, 48: 403-422, November- 2015. DOI: 10.5721/EuJRS20154823
- S. Abdikan, G. Bilgin, **F. Balik Sanli**, E. Uslu, and M.Ustuner, 2015. Enhancing land use classification with fusing dual-polarized TerraSAR-X and multispectral RapidEye data", *Journal of Applied Remote Sensing*, 9, 096054-1.
- B. Doğan, Tüysüz O, **Şanlı F.B**, Tectonostratigraphic evolution of the basins on the southern branch of the North Anatolian Fault System in the SE Marmara Region, Turkey, *Int J Earth Sci (Geol Rundsch)* (2015) 104(2):389–418 DOI 10.1007/s00531-014-1083-9.
- S. Abdikan, M. Arıkan, **F. Balik Sanli**, Z. Cakir, 2014. Monitoring of coal mining subsidence in peri-urban area of Zonguldak city (NW Turkey) with persistent scatterer interferometry using ALOS-PALSAR, *Environmental Earth Sciences*, 71 (9), 4081-4089.
- S. Abdikan, **F. Balik Sanli**, F. Sunar, M. Ehlers. 2014. A comparative data-fusion analysis of multi-sensor satellite images, *International Journal of Digital Earth*, 7 (8), 671-687,
- S. Abdikan, **F. Balik Sanli**, 2012. Comparison of Different Fusion Algorithms in Urban and Agricultural Areas Using SAR (PALSAR and RADARSAT) and Optical (SPOT) Images, *Boletim de Ciências Geodésicas*, 18(4), 509-531.
- F. Balik Sanli**, Monitoring land use/cover change and its effects in a highly urbanized district of a metropolitan city Istanbul, Turkey. *International Journal of the Physical Sciences*, 6(12), 2907-2915 pp, 2011.,
- Y. Kurucu, **F. Balik Sanli**, M.T. Esetlili, M. Bolca, C. Goksel, "Contribution of SAR Images to Determination of Surface Moisture on the Menemen Plain, Turkey", *4 International Journal of Remote Sensing*, vol. 30(7), 1805-1817 pp., 2009 , DOI: 10.1080/01431160802639764.

RESEARCH ACTIVITIES

Publications in journals

F. Balik Sanli, Y. Kurucu, M.T. Esetlili, "Determining Land Use Changes by RadarOptic Fused Images and Monitoring Its Environmental Impacts in Edremit Region of Western Turkey", *Environmental Monitoring and Assessment*, vol. 151, 45-58 pp., 2009 , DOI: 10.1007/s10661-008-0248-z .

A. O. Dogru, F. Bektaş Balçık, **F. Balik Sanli**, C. Goksel, N. Ulugtekin, "A Change Detection Analysis in the Izmir Bird Paradise: Integration of Remote Sensing and Geographical Information System", *Fresenius Environmental Bulletin*, vol. 18(1), 51- 56 pp., 2009.

F. Balik Şanlı, F. Bektaş Balçık, Ç. Göksel, "Defining Temporal Spatial Patterns of Mega City Istanbul to See the Impacts of Increasing Population", *Environmental Monitoring and Assessment*, vol. 146, 267-275 pp., 2007 , DOI: 10.1007/s10661- 007-0078-4

Book Chapters

S Abdikan,C. Bayik, **F. Balik Şanlı**, Oil Spill along the Turkish Straits Sea Area Accidents, Environmental Pollution, Socio-Economic Impacts and Protection., Chapter:(The Role of SAR Remote Sensing to Detect Oil Pollution and Emergency Intervention) (2018), Türk Deniz Araştırmaları Vakfı, Editorial Board:Selma ÜNLÜ, Bedri ALPAR, Bayram ÖZTÜRK, pp 480, ISBN:978-975-8825-39-4, 2018.

M. T. Esetlili, **F. Balik Sanli**, Remote Sensing Technique in Agriculture, Chapter: (Part 2 Remote Sensing Methods and Basics of Satellite Image Processing) DEMFO, Editor: Prof. Dr. Yusuf Kurucu,ISBN:978-605-8192409, In Turkish, 2017.

H. Demir, **F. Balik Sanli**, M. Gur, and C. Goksel, A Sustainable and Economically Recycling Real Estate Development Project: A Case Study for Istanbul Park. H. Gökçekus U. Yürker, J.W. LaMoreaux (eds.), *Survival and Sustainability, Environmental Earth Sciences*, pp 315-329. DOI 10.1007/978-3-540-95991-5_30, C _ Springer-Verlag Berlin Heidelberg, 2011

Publications in National Refreed Journals

M Üstüner, **F. Balik Şanlı** (2019) Çok zamanlı polarimetrik SAR verileri ile tarımsal ürünlerin sınıflandırılması. *Jeodezi ve Jeoinformasyon Dergisi*, 1 (1-10), 2019.-*Journal of Geodesy and Geoinformation*, ISSN: 2147-1339

F. Balik Sanli, C. Uçar, (2017) Gölümü objelerin 3-B modellenmesinde GPR/GPS kombinasyonu. *TÜRK COĞRAFYA DERGİSİ*, 0(68), 19-30., Doi: 10.17211/tcd.287481. Abdikan, S., & Şanlı, F. B. (2013). Zonguldak Maden Alanlarında Meydana Gelen Yeryüzeyi Hareketlerinin InSAR Zaman Serileri ile Belirlenmesi. *Harita Dergisi*, 79(149), 1-6.

A.Delen, **F. Balik Şanlı** (2017). Nesne-Tabanlı Sınıflandırma Yöntemi ile Tarımsal Ürün Deseninin Belirlenmesi. *Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi*, 242-247.

A.Delen, **F. Balik Şanlı** (2017). Pamuk Ekili Alanların Nesne Tabanlı Sınıflandırma Yöntemi İle Belirlenmesi: Menemen Örneği. *Journal of New Results in Engineering and Natural Sciences*(6), 1-8. (Kontrol No: 3513396)

S. Abdikan, M. Arıkan, **F. Balik Sanli**, Z. Çakır, H. Kemalder, (2013) "Zonguldak maden alanlarında meydana gelen yer yüzeyi hareketlerinin insar zaman serileri ile belirlenmesi", *Harita Dergisi* 149, 1-6.

Balik Şanlı F., (2006). Stereoskopik Radarsat F1- F5 Görüntülerinden Üretilen Sayısal Arazi Modellerinin Değerlendirilmesi. TMMOB Harita ve Kadastro Mühendisleri Odası Jeodezi Jeoinformasyon ve Arazi Yönetimi Dergisi, 1(94), 33-38

Selected publications in conference
proceedings

B Kafes, OS Yilmaz, **F Balik Şanlı**, Investigation of the Ten-Year Change of Longos Forests with NDVI Time Series Analysis Using Google Earth Engine (GEE). 2. International Baku Scientific Research Conference, 28-30 April 2021 / Baku, Azerbaijan.

AB Polat, O Akcay, **FB Sanli**, Analysing Temporal Effects on Classification of SAR and Optical Images. EGU General Assembly 2021 (EGU21), 19–30 April 2021.

A. Shah Frahmand, D. Eren Akyuz, **F. Balik Sanli**, F. Bektas Balcik. "Remote Sensing of Evapotranspiration Using Sebal and Landsat-8 Imageries Over Lower Part of Kunduz Catchment, Afghanistan" In: International Symposium on Applied Geoinformatics (ISAG-2019), November 7-9, 2019

M. Ustuner, **F. Balik Sanli**. "Multi-temporal SAR Classification of Urban Areas using Extremely Randomized Trees" In: International Symposium on Applied Geoinformatics (ISAG-2019), November 7-9, 2019

Ö. G. Narin , S. Abdikan , A. Sekertekin, A. Delen, **F. Balik Sanli**, "The Use of SENTINEL-2 Satellite Data in Examining the Relationship Between Yield and Vegetation Indices for Sunflower Plant" In: International Symposium on Applied Geoinformatics (ISAG-2019), November 7-9, 2019

S. S. Akay, O. Ozcan , **F. Balik Sanli** , B. Bayram, T. Gorum, "Accuracy Evaluation of UAV-Derived Products Based on Different Flying Altitudes" In: International Symposium on Applied Geoinformatics (ISAG-2019), November 7-9, 2019

F Calò, O Orhan, D Notti, S. Abdikan, H.B. Makineci, A. Pepe, **F. Balik Sanli**, "Integration of SAR and Optical Data for Land Investigations In Konya-Karapinar Area, Central Turkey" In: International Symposium on Applied Geoinformatics (ISAG-2019), November 7-9, 2019

M. Üstüner, **F. Balik Şanlı** (Invited Presentation), "Regularized Greedy Forests for Polarimetric SAR Image Classification" In: XXIX International Symposium on "Modern Technologies, Education and Professional Practice in Geodesy and Related Fields" November 5-6, 2019.

A. Delen, S. Abdikan, **F. Balik Sanli**, F. Bektaş Balcik, C. Goksel. "Object Based Flooding Extent Mapping with Sentinel-2 Data" In: 9th International Symposium on Atmospheric Sciences-ATMOS 2019, October 23-26, 2019

R. Nasirzadehdizaji, **F. B. Sanli**, Z. Cakir, "Application Of Sentinel-1 Multi-Temporal Data for Crop Monitoring and Mapping" In: ISPRS International GeoSpatial Conference 2019, October 12-14,2019.

R. Nasirzadehdizaji, **F. Balik Sanli**, Z. Cakir and E. Sertel. "Crop Mapping Improvement by Combination of Optical and SAR Datasets" In: 8th International Conference on Agro-Geoinformatics, Agro-Geoinformatics 2019, July 16-19, 2019.

M. Ustuner **F. Balik Sanli**, S. Abdikan, G. Bilgin and C. Goksel. A booster analysis of extreme gradient boosting for crop classification using PolSAR imagery. In: 8th International Conference on Agro-Geoinformatics, Agro-Geoinformatics 2019, July 16-19, 2019

S. Abdikan, C. Bayik, M. Ustuner, and **F. Balik Sanli**. An Assessment of Urban Area Extraction Using ALOS-2 Data. In: 9th International Conference on Recent Advances in Space Technologies, RAST2019, June 11-14, 2019. doi:10.1109/RAST.2019.8767819

S. S. Akay, O. Özcan, **F.B. Şanlı**, B. Bayrama, T. Görüm, "İHA Görüntülerinden Üretilen Verilerin Doğruluk Değerlendirmesi" In: TUFUAB X. Teknik Sempozyumu / 25-27 April 2019 (in Turkish)

Ö.G. Narin, S. Abdikan, A. Şekertekin, A. Delen, **F.B. Şanlı**, "Sentinel-2 Uydusunun Ayçiçeği Bitkisini İzlemedeki Performans Analizi" In: TUFUAB X. Teknik Sempozyumu / 25-27 April 2019 (in Turkish).

M. Ustuner, **F. Balik Sanli**, S. Abdikan, E. Erten and C. Lopez-Martinez, Evaluating the Cloude-Pottier Decomposition for Crop Classification using Multi-Temporal Radarsat-2 Data. In: POLinSAR 2019, 9th International Workshop on Science and Applications of SAR Polarimetry and Polari- metric Interferometry, January 28-February 1, 2019

T. A. LIZA, **F. Balik Sanli** , R. Nasirzadehdizajgi, Comparison Of Data Combination And Image Fusion In Agricultural Areas. 3. International Zeugm Conference On Scientific Researches 18-18-20 January 2019.

M. Ustuner., S. Abdikan, and **F. Balik Sanli**, Classification of Forested Areas Using Morphological Profiles in Dual Polarised ALOS/PALSAR Data. In: Proceedings of the IX Conference of the Italian Society of Remote Sensing (AIT2018), Published in July, 2019.doi:10.978.88944687/17

M. Üstüner, **F. Balik Şanlı**, S.Abdikan, M.T. Esetlili, G. Bilgin, An Application Of Roll-Invariant Polarimetric Features For Crop Classification From Multi-Temporal Radarsat-2 Sar Data. ISPRS TC I Mid-term Symposium Innovative Sensing – From Sensors to Methods and Applications, 1, 451-456., Doi: 10.5194/isprs-archives-XLII-1-451-2018.

M. Arekhi, S.Saglam, Y.O. Ozkan, A. Yeşil, M. Dee, **F. Balik Sanli**, C. Göksel. Monitoring long-term snow cover variations using Landsat images at Mt. Erciyes, Turkey. 1st International Symposium on Graduate Research in Science Focus on Entrepreneurship and Innovation, 2018.

M. Üstüner, **F. Balik Şanlı**, S. Abdikan, Classification of forested areas using morphological profiles in dual polarized ALOS/PALSAR data. Italian Society of Remote Sensing IX. Conference, 2018.

S. Abdikan, A. Şekertekin, M. Üstüner **F. Balik Sanli**, Nasirzadehdizaji Rouhollah Backscatter analysis using multi-temporal Sentinel-1 SAR data for Crop growth of Maize in Konya Basin, Turkey. ISPRS Technical Commission III Symposium on "Developments, Technologies and applications in Remote Sensing", 3, 9-13., Doi: 10.5194/isprs-archives-XLII-3-9-2018, 2018.

.S. Abdikan, Al. Sekertekin, M. Ustuner, and **F. Balik Sanli**, Backscatter Analysis Using Multi-Temporal Sentinel-1 SAR Data for crop growth of maize in Konya Basin, Turkey. In: Proceedings of the ISPRS Technical Commission III Symposium on "Developments, Technologies and applica- tions in Remote Sensing", May 7–10, 2018 doi:10.5194/isprs-archives-XLII-3-9-2018

M. Üstüner, U. Gokdag, G. Bilgin, **F. Balik Şanlı**, Comparing the classification performances of supervised classifiers with balanced and imbalanced SAR data sets. 26th Signal Processing and Communications Applications Conference (SIU), 1-4., Doi: 10.1109/SIU.2018.8404183, 2018.

U. Gökdağ M. Üstüner, G. Bilgin Gökhan, **F. Balik Şanlı**, Kernel extreme learning machines for PolSAR image classification using spatial features. 26th Signal Processing and Communications Applications Conference (SIU), 1-4., Doi: 10.1109/SIU.2018.8404282, 2018.

F. Balik Şanlı, A. Delen, M. Üstüner, C. Bayik, S. Abdikan, Monitoring Urban Green Space Using Göktürk-2 Data: A Case Study For Edirne City. The 2nd International Urban, Environment and Health Congress,2018.

A. H. İncekara, A. Delen, D. Z. Şeker, **F. Balik Şanlı**, Comparison of Pixel-Based and Object-Oriented Approach to Extract Boundary of Open Pit Mine in Forest Area. International Conference On Agriculture, Forest, Food, Veterinary Sciences and Technologies, 2-5 April, Izmir, Turkey, 479-486, 2018.

A. Delen, , **F. Balik Şanlı**, A. H. İncekara, A. Delen, D. Z. Şeker, Remote Sensing and GIS for the Management of Agricultural Production around Gediz River in Izmir, Turkey. International Conference On Agriculture, Forest, Food, Veterinary Sciences and Technologies, 2-5 April,

Izmir, Turkey, 474-478, 2018.

F. Calò, D. Notti, J. P. Galve, S. Abdikan, T. Görüm, O. Orhan, H. B. Makineci, A. Pepe, M. Yakar, and **F. Balik Şanlı**,. A Multi-Source Data Approach For The Investigation Of Land Subsidence In The Konya Basin, Turkey. *Geoinformation For Disaster Management (Gi4DM)*, 129-135., Doi: 10.5194/isprs-archives-XLII-3-W4-129-2018, 2018

C. Bayik, S. Abdikan, G. Ozbulak, T. Alasag, S. Aydemir, **F. Balik Şanlı**, Exploiting Multi-Temporal Sentinel-1 SAR Data for Flood Extend Mapping. *Geoinformation For Disaster Management (Gi4DM)(XLII-3/W4)*, 109-113., Doi: 10.5194/isprs-archives-XLII-3-W4-109-2018 2018.

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F. Düzgün (Balık), "Integration of radar Interferometric Products and Optical Images For Detection of Soil Moisture", Fourth International Symposium "Turkish-German Geodetic Days, Volume I 291-298 pp., Berlin, Germany, April **2001**.

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N.Meratnia, **F.Düzgün (Balık)**, "Monitoring and Analysis of water pollution using Temporal GIS", ISPRS- XIXth congress of the International Society For Photogrammetry and Remote Sensing, Proceedings Vol. XXXIII, Part B7/2 861-867 pp., Amsterdam, The Netherlands, July **2000**.

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A. Çöltekin, **F. Düzgün (Balık)** "Generation of DEM by using non-stereographic SPOT images", GIS 96 Symposium, YTU, September 27-29, **1996**, Istanbul, TURKEY

F.Düzgün (Balık) "Evaluation of İstanbul Metropolitan Area by Using Remotely Sensed Data", 3rd ERDAS-ARC/INFO User Group Seminar, July 20-21, **1996**, Ankara, TURKEY

TEACHING EXPERIENCE

Geomatics Engineering
Undergraduate Studies Given
Courses

2009-2020

Remote Sensing (<http://www.bologna.yildiz.edu.tr/index.php?r=course/view&id=5896&aid=30>)
Digital Image Processing
(<http://www.bologna.yildiz.edu.tr/index.php?r=course/view&id=5913&aid=30>)
Remote Sensing Application
(<http://www.bologna.yildiz.edu.tr/index.php?r=course/view&id=5909&aid=30>)
Photogrammetry (<http://www.bologna.yildiz.edu.tr/index.php?r=course/view&id=5902&aid=30>)
Occupational English-2
(<http://www.bologna.yildiz.edu.tr/index.php?r=course/view&id=8209&aid=30>)
Occupation Terminology (in Turkish)
Introduction to Geomatic Engineering
(<http://www.bologna.yildiz.edu.tr/index.php?r=course/view&id=6722&aid=30>)
Field works (<http://www.bologna.yildiz.edu.tr/index.php?r=course/view&id=6735&aid=30>)
Gdgraduate Dissertation Supervision
Database Management
Photogrammetry Applications

Geomatics Engineering Graduate
Studies Given Courses

2019-2020

Microwave Remote Sensing
(<http://www.bologna.yildiz.edu.tr/index.php?r=course/view&id=8075&aid=30>)
Image Fusion Algorithms and Applications
(<http://www.bologna.yildiz.edu.tr/index.php?r=course/view&id=7803&aid=30>)

SUPERVISIONS

Advised PhD Studies

MUSTAFA USTUNER, The Usability of Polarimetric SAR Images for Crop Pattern Identification: Comparative Analysis, **2019**
ROUHOLLAH NASIRZADEHDIZAJI, Integration of Optical and Synthetic Aperture Radar Imagery for Improving Land use/cover Mapping, **2019**
CELALETTIN UCAR, GPR&GPS Combination in 3-D Modelling of Buried Object, **2018**.
SAYGIN ABDIKAN, Monitoring of Land Surface Subsidence in Zonguldak Coal Mine Field At Northern Turkey Using Multi Temporal SAR Interferometry, **2012**

Ongoing PhD Study Supervisions

AHMAD SHAH, Watershed Management using Geographic Information Technology
SEMIH SAMI AKAY, The UAV-Based Modeling of the Volumetric Change of Meander Structures in the Büyük Menderes River and the Effect of Extreme Events.
AHMAD DELEN, Use of Current Remote Sensing Technologies in Investigation of Earth Objects and Events
MUMIN IMAMOGLU, Monitoring of Earth Deformations Using Interferometric SAR Techniques

Advised MSc Studies

CANSU KADRİYE CEBECİOĞLU, Investigation Of The Relationship Between Projected And Surface Areas Of Cultivated Areas Trough Multi-Resolution Satellite-Imageries And Large-Scale Maps, **2019**
YUSUF ÇAĞRI DAŞKIN, Age Estimation From Facial Images Using Deep Neural Networks, **2019**
TAHARA AFRIN LIZA, Investigation Of The Relationship Between Projected And Surface Areas Of Cultivated Areas Trough Multi-Resolution Satellite- Imageries And Large-Scale Maps, **2019**
SEDANUR GÜRDAL, Pléiades Satellite Image Object-Based Classification and Accuracy Analysis with Airborne Lidar Data Integration, **2018**.
AHMET DELEN, Use of Rapideye Satellite Image Determination Method Of Land Use And Cover, **2017**
MIDYAN D. I. ALDABASH, Analysis Of Multi Temporal Satellite Imagery For Total Suspended Sediment In Coastal Water, **2016**.

BİLGE CİVELEKOĞLU, Estimation Of Forest Tree Types Structure by Using Classification And Echo Information Of Airborne Lidar Data: A Case Study: Istanbul, Belgrad Forest, **2015**.

MUSTAFA USTUNER, Parameter Analysis of Support Vector Machines for Landuse Classification Using High-resolution RapidEye Images, **2013**

Ongoing MSc Study Supervisions

BAŞAK KAFES, Time Series Analysis with Web Based Google Earth Engine Using Normalized Difference Vegetation Index

NESLİHAN ÇAKMAK, Monitoring Earthsurface Phenemenon Using Current Remote Sensing Techniques

AHMET BATUHAN POLAT, Detectiong Earthsurface Phenemenon and Objects Using Current Remote Sensing Techniques

ADDITIONAL INFORMATION

Professional Affiliations and Services

ISPRS WG VII/27 Secretary (2012-2016) ISPRS WG VII/7 - Synergy in Radar and Lidar.
<http://www2.isprs.org/commissions/comm7/wg7.html>

ISPRS WG VII/2 Co-Chair (2006-2008) ISPRS WG VII/2 - Information Extraction From SAR Data.
<http://www.commission7.isprs.org/wg2>

ITC International Institute for Geo-Information Science and Earth Observation Representative of Turkey
<http://www.itc.nl/education>

Professional Organization Memberships

International Society for Photogrammetry and Remote Sensing (ISPRS)

TUFUAB Turkish National Society for Photogrammetry and Remote Sensing

TUJJB Turkish Union of Geodesy and Geophysics Adhering Organization

HKMO Union of Chambers of Turkish Engineers and Architects, Chamber of Surveying and Cadastre Engineers.

YTU Alumni Association

ITC Turkish Alumni Association of International Institute for Geo-Information Science and Earth Observation Representative of Turkey

Journals Editorial Board

European Journal of Remote Sensing

<http://ojs.agr.unifi.it/index.php/EuJRS/about/editorialTeam>

Turkish Journal of Remote Sensing and GIS (Turk J Remote Sens GIS)

<https://dergipark.org.tr/en/pub/rsgis>

Journals Reviewer

International Journal of Remote Sensing

Remote Sensing Letters

IEEE Journal of Selected Topics in Applied Earth Observation and Remote Sensing

European Journal of Remote Sensing

Environmental Earth Sciences

Environmental Engineering Science

Environmental Monitoring and Assessment

Journal of Applied Remote Sensing

Geomatics, Natural Hazards and Risk

Earth Science Informatics

Journal of Spatial Science

Arabian Journal of Geosciences

British Journal of Mathematics & Computer Science

Electrical Journal of Polish Agricultural Universities

Chinese Optic Letters

International Journal of Environment and Geoinformatics

Journal of Global Ecology and Environment

Organisational skills

Confereans Co-Chair: Organizer member of Conference on Information Extraction from SAR and Optical Data, with Emphasis on Developing Countries, ISPRS Commission VII WG2&WG7 16-18 May **2007**, Istanbul/Turkey
<http://www.isprs2007ist.itu.edu.tr/>

Program Committee Member: COMPGEO'09 International Workshop on Computational Geoinformatics in conjunction with The 2009 International Conference on Computational Science and its Applications. Yongin Korea-29 Haziran-2 Temmuz **2009**, Program Komitesi Üyesi

NATIONAL

Scientific Committee Member: 15th Scientific and Technical Conference of Turkish Chamber of Survey and Cadastre Engineers 25-28 March **2015** – Ankara

Organizer and Scientific Committee Member: UZALCBS-2014 V. National Remote Sensing and GIS Symposium 16-19 October **2014**, Yıldız teknik Üniversitesi , İstanbul,

Scientific Committee Member: 14th Scientific and Technical Conference of Turkish Chamber of Survey and Cadastre Engineers 14-17 May **2013** – Ankara

Organizer and Scientific Committee Member: UZALCBS-2012 IV. National Remote Sensing and GIS Symposium 16-19 October **2012**, Bülent Ecevit Üniversitesi, Zonguldak,

Organizer Committee Member: 13th Scientific and Technical Conference of Turkish Chamber of Survey and Cadastre Engineers 18-22 April **2011** – Ankara

Organizer Committee Member: UZALCBS-2010 III. National Remote Sensing and GIS Symposium 11-13 October **2010** Gebze Yüksek Teknoloji Enstitüsü, Kocaeli

Scientific Committee Member: UZALCBS-2008 II. National Remote Sensing and GIS Symposium 13-15 October **2008**, Erciyes Üniversitesi Kayseri

Awards and Grants

International U.A.B.-B.E.N.A Conference- Environmental engineering and Sustainable Development Presentation Recognition Award 25-27 may **2017** Alba-lulia-Romania

Geology Research-Article Award- By the Chamber of Geological Engineers of Turkey Union of Chambers of Engineers and Architects 30 March, **2015**, MTA nkar Turkey

V. National Remote Sensing & GIS Symposium, Best Presentation Award, 14-17 October **2014**, Istanbul/Turkey

IV. National Remote Sensing & GIS Symposium, II. Best Presentation Award, 16-18 October **2012**, Zonguldak/Turkey

XXI. ISPRS Congress Best Poster Paper Award, 03-11 July **2008**, Beijing/China

Course on Monitoring Natural Disasters (3 months) ITC The Netherlands, **2005**

The Scientific and Technological Research Council Of Turkey -TUBITAK - EBILTEM Scientific Project Competititon (Second Prize), İzmir Ege University, **2004**.

MSc Scholarship by the Government of The Netherlands (fot 18 Months) ITC The Netherlands, **1999-2000**

Date: August 2021

Fusun Balik Sanli