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International Researcher IDs

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Publons / Web Of Science ResearcherID: G-5017-2018

Yoksis Researcher ID: 119540

Education Information

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Jeodezi Ve Fotogrametri Mühendisliği Bölümü, Turkey 1999 - 2004

Postgraduate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Jeodezi Ve Fotogrametri Mühendisliği Bölümü, Turkey 1995 - 1997

Undergraduate, Yıldız Technical University, Faculty Of Civil Engineering, Geomatic Engineering, Turkey 1991 - 1995

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, GPS ile İyonosfer Toplam Elektron Yoğunluğu Değişimlerinin Koordinatlara Etkilerinin Araştırılması, Yıldız Technical University, Fen Bilimleri Enstitüsü, Jeodezi Ve Fotogrametri Mühendisliği Bölümü, 2004

Postgraduate, GPS ve Atmosferik Modeller, Yıldız Technical University, Fen Bilimleri Enstitüsü, Jeodezi Ve Fotogrametri Mühendisliği Bölümü, 1997

Research Areas

Geotechnical Engineering, Engineering and Technology

Academic Titles / Tasks

Professor, Cukurova University, Mühendislik Fakültesi, Maden Mühendisliği, 2021 - Continues

Professor, Cukurova University, Ceyhan Mühendislik Fakültesi, Harita Mühendisliği, 2019 - 2021

Associate Professor, Cukurova University, Ceyhan Mühendislik Fakültesi, Harita Mühendisliği, 2013 - 2019

Associate Professor, Yıldız Technical University, Faculty Of Civil Engineering, Geomatic Engineering, 2012 - 2013

Assistant Professor, Yildiz Technical University, Faculty Of Civil Engineering, Geomatic Engineering, 2008 - 2012
Research Assistant, Yildiz Technical University, Faculty Of Civil Engineering, Geomatic Engineering, 1999 - 2008

Academic and Administrative Experience

Head of Department, Cukurova University, Ceyhan Mühendislik Fakültesi, Harita Mühendisliği, 2014 - 2021
Vice Dean, Cukurova University, Ceyhan Mühendislik Fakültesi, 2014 - 2014

Courses

Mathematical geodesy, Undergraduate, 2020 - 2021
Physical geodesy, Undergraduate, 2021 - 2022
Adjustment computation, Undergraduate, 2021 - 2022
Topography, Undergraduate, 2020 - 2021
Parameter estimation and error theory, Undergraduate, 2020 - 2021
Jeodezi II, Undergraduate, 2016 - 2017
Dengeleme hesabı II, Undergraduate, 2016 - 2017
Jeodezi I, Undergraduate, 2016 - 2017
Dengeleme Hesabı I, Undergraduate, 2016 - 2017
Uzaktan Algılama ve Coğrafi Bilgi Sistemlerinde Kullanılan Temel Haritacılık Kavramları, Postgraduate, 2016 - 2017
Topoğrafya, Undergraduate, 2015 - 2016
Temel Bilgi Teknolojileri, Undergraduate, 2014 - 2015
İstatistik, Undergraduate, 2012 - 2013
Mühendislik Etiği, Undergraduate, 2012 - 2013
Sayısal Analiz, Undergraduate, 2012 - 2013
Jeodezi, Undergraduate, 2012 - 2013
Hata Kuramı ve Parametre Kestirimi, Undergraduate, 2012 - 2013
Uydu Jeodezisi, Undergraduate, 2012 - 2013
Jeodezi Uygulaması, Undergraduate, 2011 - 2012
Mesleki İngilizce, Undergraduate, 2011 - 2012
Küresel Trigonometri, Undergraduate, 2011 - 2012
Temel Bilgisayar Bilimleri, Undergraduate, 2011 - 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Application of long short-term memory (LSTM) neural network based on deep learning for electricity energy consumption forecasting**
BİLGİLİ M., ARSLAN N., ŞEKERTEKİN A., YAŞAR A.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.30, no.1, pp.140-157, 2022 (SCI-Expanded)
- II. **Short-term air temperature prediction by adaptive neuro-fuzzy inference system (ANFIS) and long short-term memory (LSTM) network**
Şekertekin A., Bilgili M., Arslan N., Yildirim A., Çelebi K., Özbek A.
METEOROLOGY AND ATMOSPHERIC PHYSICS, vol.133, pp.943-959, 2021 (SCI-Expanded)
- III. **Prediction of 10-min, hourly, and daily atmospheric air temperature: comparison of LSTM, ANFIS-FCM, and ARMA**
Ozbek A., Sekertekin A., Bilgili M., Arslan N.
Arabian Journal Of Geosciences, vol.14, no.7, pp.1-16, 2021 (SCI-Expanded)

- IV. **Modeling Diurnal Land Surface Temperature on a Local Scale of an Arid Environment Using Artificial Neural Network (ANN) and Time Series of Landsat-8 Derived Spectral Indexes**
Şekertekin A., Arslan N., Bilgili M.
Journal of Atmospheric and Solar-Terrestrial Physics, vol.206, 2020 (SCI-Expanded)
- V. **A SWOT Analysis for Offshore Wind Energy Assessment Using Remote-Sensing Potential**
Nezhad M. M., Shaik R. U., Heydari A., Razmjoo A., ARSLAN N., Garcia D. A.
APPLIED SCIENCES-BASEL, vol.10, no.18, 2020 (SCI-Expanded)
- VI. **Application of Long Short-Term Memory neural network model for the reconstruction of MODIS Land Surface Temperature images**
ARSLAN N., ŞEKERTEKİN A.
JOURNAL OF ATMOSPHERIC AND SOLAR-TERRESTRIAL PHYSICS, vol.194, 2019 (SCI-Expanded)
- VII. **Application of spectral analysis to determine geothermal anomalies in the Tuzla region, NW Turkey**
ERENOĞLU R. C., ARSLAN N., ERENOĞLU O., Arslan E.
ARABIAN JOURNAL OF GEOSCIENCES, vol.12, no.14, 2019 (SCI-Expanded)
- VIII. **Monitoring thermal anomaly and radiative heat flux using thermal infrared satellite imagery - A case study at Tuzla geothermal region**
ŞEKERTEKİN A., ARSLAN N.
GEOTHERMICS, vol.78, pp.243-254, 2019 (SCI-Expanded)
- IX. **Accuracy Assessment of Low Cost UAV Based City Modelling for Urban Planning**
ERENOĞLU R. C., ERENOĞLU O., ARSLAN N.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.25, no.6, pp.1708-1714, 2018 (SCI-Expanded)
- X. **Assessment of oil spills using Sentinel 1 C-band SAR and Landsat 8 multispectral sensors**
ARSLAN N.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.190, no.11, 2018 (SCI-Expanded)
- XI. **Identification of hotspots using different statistical methods in a region of manufacturing plants**
ARSLAN N.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.190, no.9, 2018 (SCI-Expanded)
- XII. **Network RTK: A case study in Florida**
BERBER M., Arslan N.
MEASUREMENT, vol.46, no.8, pp.2798-2806, 2013 (SCI-Expanded)
- XIII. **Correlation analysis of vertical total electron content**
Arslan N.
ACTA GEOPHYSICA, vol.59, no.2, pp.377-397, 2011 (SCI-Expanded)
- XIV. **Monitoring of the ionosphere TEC variations during the 17th August 1999 Izmit earthquake using GPS data**
DOĞAN U., ERGINTAV S., Skone S., ARSLAN N., Oz D.
EARTH PLANETS AND SPACE, vol.63, no.12, pp.1183-1192, 2011 (SCI-Expanded)
- XV. **REAL-TIME KINEMATIC GPS FOR CADASTRAL SURVEYING**
PIRTI A., ARSLAN N., Deveci B., AYDIN Ö., ERKAYA H., HOŞBAŞ R. G.
SURVEY REVIEW, vol.41, no.314, pp.339-351, 2009 (SCI-Expanded)
- XVI. **Network Calibration for Unfavorable Reference-Rover Geometry in Network-Based RTK: Ohio CORS Case Study**
Grejner-Brzezinska D. A., Arslan N., WIELGOSZ P., Hong C.
JOURNAL OF SURVEYING ENGINEERING, vol.135, no.3, pp.90-100, 2009 (SCI-Expanded)
- XVII. **Identification of vertical total electron content by time series analysis**
Erdogan H., Arslan N.
DIGITAL SIGNAL PROCESSING, vol.19, no.4, pp.740-749, 2009 (SCI-Expanded)
- XVIII. **Effect of stochastic ionospheric delay modeling for GPS ambiguity resolution**
HONG C., Grejner-Brzezinska D. A., KWON J. H., Arslan N.
EARTH PLANETS AND SPACE, vol.61, no.8, 2009 (SCI-Expanded)
- XIX. **The impact of temporal ionospheric gradients in Northern Europe on relative GPS positioning**

ARSLAN N., DEMİREL H. H.

JOURNAL OF ATMOSPHERIC AND SOLAR-TERRESTRIAL PHYSICS, vol.70, pp.1382-1400, 2008 (SCI-Expanded)

XX. **An experiment of predicting Total Electron Content (TEC) by fuzzy inference systems**

Akıymaz O., ARSLAN N.

EARTH PLANETS AND SPACE, vol.60, no.9, pp.967-972, 2008 (SCI-Expanded)

Articles Published in Other Journals

I. **Atmospheric Effects on RTK Network in Florida**

BERBER M., ARSLAN N.

BOLETIM DE CIENCIAS GEODESICAS, vol.21, no.4, pp.814-831, 2015 (Scopus)

II. **İyonosferdeki Toplam Elektron Yoğunluğu Büyük Depremlerin Kestiriminde Kullanılabilir mi**

ARSLAN N., AYDIN C., Demirel H.

YTÜ Dergisi, vol.1, pp.47-56, 2003 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Network calibration for unfavorable reference-rover geometry in network-based RTK: Ohio CORS case study**

Grejner-Brzezinska D., ARSLAN N., Wielgosz P., Chang-Ki H.

in: CORS and OPUS for Engineers, Tools for Surveying and Mapping Applications (monograph), Tomas Soler,

Editor, American Society Of Civil Engineers-Asce, Virginia, pp.143-153, 2011

Refereed Congress / Symposium Publications in Proceedings

I. **Use of Thermal Infrared Remote Sensing in Geothermal Exploration**

ŞEKERTEKİN A., ARSLAN N.

Second International Congress on Geographical Education (ICGE/UCEK-2019), Eskişehir, Turkey, 3 - 05 October 2019, pp.358-0

II. **Gemstone exploration using remote sensing method a case study of Yenice Opal, Çanakkale, NW Turkey**

ÇALIK A., ARSLAN N., ERENOĞLU R. C., ERENOĞLU O., ULUGERGERLİ E. U.

72. Türkiye Jeoloji Kurultayı (Uluslararası Katılımlı), 28 January - 01 February 2019

III. **Discovering the Changes in Land Surface Temperature Caused by the Conversion of Agricultural Lands to Residential and Urban Use**

ŞEKERTEKİN A., ARSLAN N.

9th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 11 - 14 June 2019, pp.393-398

IV. **Imaging of Spectral Properties of Dendritic Agate from Dereyalak Village (Eskişehir) – NW of Turkey using Sensor Data**

ERENOĞLU O., ÇALIK A., ERENOĞLU R. C., ULUGERGERLİ E. U., ARSLAN N.

International Symposium on Modern Technologies, Education and Professional Practice in Geodesy and Related Fields, 8 - 09 November 2018

V. **Comparison of Pixel and Object-Based Classification Methods in Wetlands Using Sentinel-2 Data**

ÇİÇEKLİ S. Y., ŞEKERTEKİN A., ARSLAN N., DÖNMEZ C.

3rd International Mediterranean Science and Engineering Congress (IMSEC 2018), Adana, Turkey, 24 - 26 October 2018, pp.298-302

VI. **Comparison of Pixel and Object-Based Classification Methods in Wetlands Using Sentinel-2 Data**

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3rd International Mediterranean Science and Engineering Congress (IMSEC 2018), Adana, Turkey, 24 - 26 October 2018, pp.298-302

VII. Comparison of Pixel and Object-Based Classification Methods in Wetlands Using Sentinel-2 Data

ÇİÇEKLİ S. Y., ŞEKERTEKİN A., ARSLAN N., DÖNMEZ C.

3rd International Mediterranean Science and Engineering Congress (IMSEC 2018), Adana, Turkey, 24 - 26 October 2018, pp.298-302

VIII. Index-Based Identification of Surface Water Resources Using Sentinel-2 Satellite Imagery

ŞEKERTEKİN A., ÇİÇEKLİ S. Y., ARSLAN N.

2nd International Symposium on Multidisciplinary Studies and Innovative Technologies, Ankara, Turkey, 19 - 21 October 2018

IX. GECE VE GÜNDÜZ YER YÜZEY SICAKLIĞI GÖRÜNTÜLERİ İLE YÜZEY ISI ADASI ANALİZİ

ŞEKERTEKİN A., ÇİÇEKLİ S. Y., ARSLAN N.

Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu 2018 (UZAL-CBS 2018), Eskişehir, Turkey, 18 - 21 September 2018

X. ADANA SEYHAN BARAJ GÖLÜ ALANININ MEVSİMSEL DEĞİŞİMİNİN YAPAY SİNİR AĞLARI İLE ANALİZİ

ARSLAN N., ÇİÇEKLİ S. Y., DÖNMEZ C., ŞEKERTEKİN A.

Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu 2018 (UZAL-CBS 2018), Eskişehir, Turkey, 18 - 21 September 2018

XI. GECE VE GÜNDÜZ YER YÜZEY SICAKLIĞI GÖRÜNTÜLERİ İLE YÜZEY ISI ADASI ANALİZİ

ŞEKERTEKİN A., ÇİÇEKLİ S. Y., ARSLAN N.

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ARSLAN N., ÇİÇEKLİ S. Y., DÖNMEZ C., ŞEKERTEKİN A.

Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu 2018 (UZAL-CBS 2018), Eskişehir, Turkey, 18 - 21 September 2018

XIII. ADANA SEYHAN BARAJ GÖLÜ ALANININ MEVSİMSEL DEĞİŞİMİNİN YAPAY SİNİR AĞLARI İLE ANALİZİ

ARSLAN N., ÇİÇEKLİ S. Y., DÖNMEZ C., ŞEKERTEKİN A.

Uzaktan Algılama ve Coğrafi Bilgi Sistemleri Sempozyumu 2018 (UZAL-CBS 2018), Eskişehir, Turkey, 18 - 21 September 2018

XIV. Index-Based Identification of Surface Water Resources Using Sentinel-2 Satellite Imagery

ŞEKERTEKİN A., ÇİÇEKLİ S. Y., ARSLAN N.

2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Kizilcahamam, Turkey, 19 - 21 October 2018, pp.610-614

XV. Validation of Bernese-Derived Precise Orbits for GRACE Satellites

UYGUR S. Ö., AYDIN C., ARSLAN N., AKYILMAZ O.

International Symposium on GIS Applications in Geography Geosciences, Çanakkale, Turkey, 18 - 21 October 2017, pp.235-243

XVI. Use of Sentinel-1 Data in Oil Spill Surveillance and Modeling

ARSLAN N., ERENOĞLU R. C.

International Symposium on GIS Applications in Geography Geosciences, Çanakkale, Turkey, 18 - 21 October 2017, pp.233

XVII. Monitoring Ionospheric Disturbances at Mw 7.8 Nepal Earthquake and Predicting Magnitudes of Earthquakes Using GNSS Measurements

İNYURT S., MEKİK Ç., YILDIRIM Ö., ARSLAN N.

International Symposium on GIS Applications in Geography Geosciences, Çanakkale, Turkey, 18 - 21 October 2017, pp.18

XVIII. A Novel Approach to Monitor Geodetic Landslide Deformation using Micro-UAS

ERENOĞLU R. C., ERENOĞLU O., ARSLAN N.

International Symposium on Modern Technologies, Education and Professional Practice in Geodesy and Related

Fields, SOFYA, Bulgaria, 9 - 10 November 2017

XIX. Modeling Regional Geoid using GNSS Observables

ERENOĞLU R. C., ERENOĞLU O., ARSLAN N.

International Symposium on Modern Technologies, Education and Professional Practice in Geodesy and Related Fields, SOFYA, Bulgaria, 9 - 10 November 2017

XX. Optimization of GNSS Network for Landslide Monitoring

ERENOĞLU R. C., ERENOĞLU O., ARSLAN N.

International Symposium on Modern Technologies, Education and Professional Practice in Geodesy and Related Field, SOFYA, Bulgaria, 9 - 10 November 2017

XXI. Thermal Anomalies Detection Using Aster Images In Tuzla Hot Springs Region

Erenoglu R. C., Arslan N., Erenoglu O., Arslan E.

International Symposium on Modern Technologies, Education And Professional Practice In Geodesy And Related Fields, Sofya, Bulgaria, 9 - 10 November 2017, pp.1-10

XXII. Imaging of Spectral Properties of Opal Mineral using Sensor Data, Yenice District, North-Western Turkey

Çalık A., Erenoglu R. C., Erenoglu O., Ulugergerli E., Arslan N.

International Symposium On GIS Applications In Geography & Geosciences, Çanakkale, Turkey, 18 - 21 October 2017, pp.1

XXIII. Monitoring of Ionospheric Disturbances at Mw 7.8 Nepal Earthquake Using GNSS Measurements

İnyurt S., Mekik Ç., Yıldırım Ö., Arslan N.

International Symposium On GIS Applications In Geography & Geosciences, Çanakkale, Turkey, 18 - 21 October 2017, pp.1

XXIV. Monitoring ionospheric disturbances at Mw 7.8 Nepal Earthquake and predicting magnitudes of earthquakes using GNSS measurements

İNYURT S., MEKİK Ç., YILDIRIM Ö., ARSLAN N.

International symposium on GIS applications in geography and geosciences, Çanakkale, Turkey, 18 - 21 October 2017

XXV. Automatic Outlier Identification of Epoch by Epoch Vertical Total Electron Content Maps

ARSLAN N., Erenoglu C.

International Symposium on Modern Technologies, Education and Professional Practice in Geodesy and Related Fields, Sofya, Bulgaria, 3 - 04 November 2011

XXVI. A Comparative study of the effects of severe ionospheric conditions on GPS receivers in the southern polar region

HONG C., GREJNER-BRZEZINSKA D. A., ARSLAN N., WILLIS M., HOTHEM L.

2nd SCAR Open Science Conference, Antarctica in the Earth System, Hobart, Australia, 12 - 14 July 2006

XXVII. Regional Network Calibration for Unfavorable Reference-User Geometry in Network-Based RTK

GREJNER-BRZEZINSKA D., ARSLAN N., WIELGOSZ P., HONG C.

IEEE/ION PLANS, Coronado, Ca, United States Of America, 25 - 27 April 2006

XXVIII. The Ionospheric Impact on GPS Performance in Southern Polar Region

Hong C. -, GREJNER-BRZEZINSKA D. A., Arslan N., WILLIS M., HOTHEM L.

19th International Technical Meeting of the Satellite Division of the Institute-of-Navigation, Texas, United States Of America, 26 - 29 September 2006, pp.1418-1426

Supported Projects

ŞEKERTEKİN A. İ., ARSLAN E., ARSLAN N., Project Supported by Higher Education Institutions, Tarihi ve Kültürel Mirasın 3 Boyutlu Dökümantasyonunda İnsansız Hava Araçlarının Kullanımı: Ceyhan Kurtkulağı Kervansarayı Örneği, 2020 - 2022

ŞEKERTEKİN A. İ., ARSLAN N., ÇİÇEKLİ S. Y., Project Supported by Higher Education Institutions, Yüzey Isı Adası Etkisinin Zamansal Analizi: Ceyhan/Adana Örneği, 2018 - 2019

ARSLAN N., ERENOĞLU R. C., Project Supported by Higher Education Institutions, SAR uydu verileriyle denizdeki petrol sızıntılarının belirlenmesi, 2017 - 2018
Arslan N., Other International Funding Programs, Oil Spill Detection Caused by Sea Vessel Incident Using SAR Data in Cesme Bay, 2017 - 2017
ARSLAN N., TUBITAK Project, Yakın Yer Uyduları Yardımıyla Yüksek Çözünürlüklü Gravite Alanı Belirleme ve Bölgesel Kütle Değişimlerinin İzlenmesi, 2013 - 2016
YAŞAR A., ÖZBEK A., BİLGİLİ M., ARSLAN N., PINAR E., Project Supported by Higher Education Institutions, ÖĞRENCİ LABORATUARLARI ALT YAPI GELİŞTİRME PROJESİ II, 2015 - 2015
ARSLAN N., TUBITAK Project, Gebze-Tuzla Arasındaki Bölgenin Mikrodeformasyon Özellikleri, 2006 - 2008

Metrics

Publication: 51
Citation (WoS): 125
Citation (Scopus): 174
H-Index (WoS): 8
H-Index (Scopus): 10

Scholarships

- TÜBİTAK-DFG 2225 Doktora sonrası araştırma burs programı, Dresden Teknik Üniversitesi, TUBITAK, 2008 - 2008
- TÜBİTAK 2219 Doktora sonrası araştırma burs programı, Ohio State Üniversitesi , TUBITAK, 2005 - 2006