

Prof. SEVDA ZUHAL AKYÜREK

Personal Information

Office Phone: [+90 312 210 2481](tel:+903122102481)

Email: zakyurek@metu.edu.tr

Web: <https://avesis.metu.edu.tr/zakyurek>

Education Information

Doctorate, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, Turkey 1992 - 1998

Post Graduate, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, Turkey 1989 - 1991

Under Graduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1985 - 1989

Dissertations

Doctorate, Some Applications of Satellite Remote Sensing to Enviromental Monitoring in turkey, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, 1998

Post Graduate, SCS Model in Guvenc Basin, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, 1991

Research Areas

Surface Water Engineering, Hydrology, Water Resources Planning and Management, Hydraulic Structures

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2013 - Continues

Professional Experience

Anabilim Dalı Akademik Kurul Üyesi, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Earth System Science, 2018 - Continues

Assistant Manager of Research and Application Center, Middle East Technical University, Presidency Office, EKOSAM, 2018 - Continues

Advising Theses

AKYÜREK S. Z. , Estimating net primary productivity of forest ecosystems over Turkey using remote sensing approach, Doctorate, Ö.GÜLBAYAZ(Student), 2018

AKYÜREK S. Z. , Effects of sediment transport on 1-d and 2-d hydrodynamic modeling and flood inundation, Post

Graduate, G.ÖNDER(Student), 2018

AKYÜREK S. Z. , Soil water content estimation from point scale to plot scale, Post Graduate, G.DEMİR(Student), 2018

AKYÜREK S. Z. , Assessment of different rainfall products in flood simulations, Doctorate, A.ÖZKAYA(Student), 2017

AKYÜREK S. Z. , Hierarchical land use and land cover classification of Sentinel2-A images and its use for corine system, Post Graduate, D.ÇAĞDAŞ(Student), 2017

AKYÜREK S. Z. , 1-D and 2-D flood modeling studies and upstream structural measures for Samsun city Terme district, Post Graduate, B.BOZOĞLU(Student), 2015

AKYÜREK S. Z. , The use of simple inertial formulation of the shallow water equations in 2-D flood inundation modeling, Post Graduate, A.NİMAEV(Student), 2015

AKYÜREK S. Z. , The use of multimetric framework in calibrating the HBV model, Doctorate, S.SÜRER(Student), 2015

Akyürek S. Z. , Yücel İ., Effects of climate change on water resources in Omerli basin, Doctorate, F.KARA(Student), 2014

AKYÜREK S. Z. , Atmospheric correction and image classification on MODIS images by nonparametric regression splines, Doctorate, S.KUTER(Student), 2014

AKYÜREK S. Z. , Evaluating geoportals, Post Graduate, E.CON(Student), 2014

AKYÜREK S. Z. , Analysis and modeling of spatially and temporally varying meteorological parameter: Precipitation over Turkey, Doctorate, P.ASLANTAŞ(Student), 2013

AKYÜREK S. Z. , OPERATION OF CASCADE DAMS CONSIDERING VARIOUS SCENARIOS AND FINANCIAL ANALYSIS OF SCENARIOS, Post Graduate, B.YALIN(Student), 2013

AKYÜREK S. Z. , MERZİ N., Operation of the water control structures, Post Graduate, O.ÇAĞRI(Student), 2013

AKYÜREK S. Z. , Regional flood frequency analysis for Ceyhan, Post Graduate, M.ALTUĞ(Student), 2013

AKYÜREK S. Z. , Multi resolution spatial database for mobile applications, Post Graduate, K.İNAL(Student), 2013

AKYÜREK S. Z. , A segment-based approach to classify agricultural lands using multi-temporal Kompsat-2 and Envisat ASAT data, Doctorate, A.ÖZDARICI(Student), 2012

AKYÜREK S. Z. , Developing regional flow duration curves and evaluating the performances in the ungauged basins, Post Graduate, Y.KOCATEPE(Student), 2011

AKYÜREK S. Z. , Context based interoperability to support infrastructure management in municipalities, Doctorate, E.TUFAN(Student), 2010

AKYÜREK S. Z. , A fuzzy software prototype for spatial phenomena: Case study precipitation distribution, Doctorate, T.ALP(Student), 2010

AKYÜREK S. Z. , MERZİ N., Developing a methodology for finding network water losses using information technologies: A case study, Post Graduate, H.ONUR(Student), 2010

AKYÜREK S. Z. , COŞAR A., Real-time 2D/3D display of DTED maps and evaluation of interpolation algorithms, Post Graduate, A.DEMİR(Student), 2010

AKYÜREK S. Z. , TUNCEL S. G. , Development of GIS based trajectory statistical analysis method to identify potential sources of regional air pollution, Post Graduate, R.FİKRET(Student), 2010

AKYÜREK S. Z. , Evaluating the use of satellite based precipitation estimates for discharge estimation in ungauged basins, Post Graduate, A.SOYTEKİN(Student), 2010

AKYÜREK S. Z. , Positional uncertainty analysis using data uncertainty engine-A case study on agricultural land parcels, Post Graduate, İ.URGANCI(Student), 2009

AKYÜREK S. Z. , A case study in weather pattern searching using a spatial data warehouse model, Post Graduate, Ç.KÖYLÜ(Student), 2008

AKYÜREK S. Z. , Real-time snow cover mapping over mountainous areas of Europe using MSG-SEVIRI imagery, Post Graduate, S.SÜRER(Student), 2008

AKYÜREK S. Z. , Classification of forest areas by K Nearest Neighbor Method: Case study, Antalya, Post Graduate, F.ÖZSAKABAŞI(Student), 2008

AKYÜREK S. Z. , Hydrological model study in Yuvacık dam basin by using GIS analysis, Post Graduate, F.KESKİN(Student), 2007

AKYÜREK S. Z. , BEKLİOĞLU M., Monitoring of water clarity, and submerged and emergent plant coverages in shallow lake wetlands using remote sensing techniques, Post Graduate, Ö.KARABULUT(Student), 2007

AKYÜREK S. Z. , Finding the optimum route for transmission lines within GIS, Post Graduate, T.ÖZTÜRK(Student), 2007

AKYÜREK S. Z. , A fuzzy based decision support system for locational suitability of settlements; Odunpazarı, Eskişehir

case study, Post Graduate, İ.ERCAN(Student), 2006

AKYÜREK S. Z. , Developing a gis based methodology for decision making for multiobjective recreational areas, case study eastern black sea region, Post Graduate, Z.GÖZDE(Student), 2006

AKYÜREK S. Z. , Investigation over a national meteorological fire danger approach for Turkey with geographical information systems, Post Graduate, Y.ÇAĞATAY(Student), 2006

AKYÜREK S. Z. , Application of sleuth model in Antalya, Post Graduate, Ö.ŞEVİK(Student), 2006

AKYÜREK S. Z. , Semi-distributed hydrologic modeling studies in yuvacik basin, Post Graduate, M.KEMAL(Student), 2006

AKYÜREK S. Z. , BAYKAL N., A geographic information systems tool development for geostatistical analysis of endangered endemic vascular plants of Turkey, Post Graduate, B.DEMİRCİ(Student), 2005

AKYÜREK S. Z. , Soil erosion risk mapping using geographic information systems: A case study on Kocadere Creek Watershed, İzmir, Post Graduate, K.OKALP(Student), 2005

AKYÜREK S. Z. , Determination of potential favorable zones for pelagic fish aggregation (anchovy) in the Black Sea using RS and GIS, Post Graduate, N.ÇİFTÇİ(Student), 2005

AKYÜREK S. Z. , Assessment of vulnerability to earthquake hazards using spatial multicriteria analysis: Odunpazarı, Eskişehir case study, Post Graduate, M.SERVİ(Student), 2004

AKYÜREK S. Z. , Implementing the dijkstra's algorithm with priority queue to the path finding problem in raster gis, Post Graduate, M.HAKBİLİR(Student), 2004

AKYÜREK S. Z. , Analysis pattern of Şanlıurfa Harran plain in UML and its implementation in geodatabase, Post Graduate, U.ÇUBUK(Student), 2004

AKYÜREK S. Z. , Devoloping a parcel-based information system by object-oriented approach, Post Graduate, E.TUFAN(Student), 2003

AKYÜREK S. Z. , A methodology for digital elevation model uncertainty evaluation: Uncertainty propagation in flood inundation modeling, Post Graduate, M.YILMAZ(Student), 2003

AKYÜREK S. Z. , Assessment of social vulnerability using geographic information systems: Pendik, Istanbul case study, Post Graduate, Z.GÜNGÖR(Student), 2003

AKYÜREK S. Z. , The enhancement of the cell-based GIS analyses with fuzzy processing capabilities, Post Graduate, T.ALP(Student), 2003

AKYÜREK S. Z. , Development of GIS-based national hydrography dataset, Sub-basin boundaries, and water quality/quantity data analysis system for Turkey, Post Graduate, S.GİRGİN(Student), 2003

AKYÜREK S. Z. , Defining priority areas for nature conservation studies using geographic information sytems a case study: Kaçkar mountains and surrounding, Post Graduate, A.TUNCA(Student), 2003

AKYÜREK S. Z. , GIS-based spatial model for wildfire simulation: Marmaris-Çetibeli fire, Post Graduate, E.TAŞEL(Student), 2003

AKYÜREK S. Z. , The Role of real time kinematic global positioning technique in Turkish cadastral activities, Post Graduate, A.İLKER(Student), 2002

AKYÜREK S. Z. , Analysing flood vulnerable areas with multicriteria evaluation, Post Graduate, G.YALÇIN(Student), 2002

AKYÜREK S. Z. , TUNCEL S. G. , Integration of geographic information systems with environmental impact assessment: A case study on Çamlı dam, Post Graduate, E.ESENGİN(Student), 2002

AKYÜREK S. Z. , GPS and DGPS error sources and developing a DGPS post processing software, Post Graduate, M.OCAK(Student), 2001

AKYÜREK S. Z. , A Hierarchical classification of landsat TM imagery for land cover mapping, Post Graduate, M.AVCI(Student), 2000

AKYÜREK S. Z. , Multimedia and internet mapping for METU, Post Graduate, M.ÜSTÜN(Student), 2000

Jury Memberships

Award, Parlar Vakfı Araştırma Teşvik Ödülü, Orta Doğu Teknik Üniversitesi, September, 2019

Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniv., July, 2019

Appointment Academic Staff, Appointment Academic Staff, Middle East Technical University, January, 2019

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi,

December, 2018

Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, August, 2018

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi, June, 2018

Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, June, 2018

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

- **WRF-Hydro Model Application in a Data-Scarce, Small and Topographically Steep Catchment in Samsun, Turkey**
Ozkaya A., Akyurek Z.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.45, pp.3781-3798, 2020 (Journal Indexed in SCI)
- **A multi-technique approach to determine temporal and spatial variability of groundwater-stream water exchange**
Koruk K., YILMAZ K. K. , Akyurek Z., Binley A.
HYDROLOGICAL PROCESSES, vol.34, pp.2612-2627, 2020 (Journal Indexed in SCI)
- **Evaluating the use of bias-corrected radar rainfall data in three flood events in Samsun, Turkey**
Ozkaya A., Akyurek Z.
Natural Hazards, vol.98, pp.643-674, 2019 (Journal Indexed in SCI)
- **Using cosmic-ray neutron probes in validating satellite soil moisture products and land surface models**
Duygu M. B. , Akyürek Z.
Water (Switzerland), vol.11, 2019 (Journal Indexed in SCI)
- **Retrieval of fractional snow covered area from MODIS data by multivariate adaptive regression splines**
KUTER S., AKYÜREK S. Z. , Weber G.
REMOTE SENSING OF ENVIRONMENT, vol.205, pp.236-252, 2018 (Journal Indexed in SCI)
- **A new approach to evaluate the MODIS annual NPP product (MOD17A3) using forest field data from Turkey**
Gulbeyaz O., Bond-Lamberty B., Akyurek Z., West T. O.
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.39, pp.2560-2578, 2018 (Journal Indexed in SCI)
- **A progressive approach for processing satellite data by operational research**
KUTER S., Weber G., Akyurek Z.
OPERATIONAL RESEARCH, vol.17, pp.371-393, 2017 (Journal Indexed in SCI)
- **Climate change impacts on extreme precipitation of water supply area in Istanbul: use of ensemble climate modelling and geo-statistical downscaling**
Kara F., Yücel İ., Akyurek Z.
HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES, vol.61, pp.2481-2495, 2016 (Journal Indexed in SCI)
- **Inversion of top of atmospheric reflectance values by conic multivariate adaptive regression splines**
KUTER S., Weber G., Akyurek Z., Ozmen A.
INVERSE PROBLEMS IN SCIENCE AND ENGINEERING, vol.23, pp.651-669, 2015 (Journal Indexed in SCI)
- **Object Based Classification of Multi temporal Images for Agricultural Crop Mapping in Karacabey Plain Turkey**
ÖZDARICI OK A., AKYÜREK S. Z.
ISPRS - International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, vol.7, pp.127-132, 2014 (Journal Indexed in SCI Expanded)
- **Comparison of regression and kriging techniques for mapping the average annual precipitation of Turkey**
Bostan P. A. , Heuvelink G. B. M. , AKYÜREK S. Z.

- INTERNATIONAL JOURNAL OF APPLIED EARTH OBSERVATION AND GEOINFORMATION, vol.19, pp.115-126, 2012
(Journal Indexed in SCI)
- **A segment-based approach to classify agricultural lands by using multi-temporal optical and microwave data**
Ok A. O. , Akyurek Z.
 - INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.33, pp.7184-7204, 2012 (Journal Indexed in SCI)
Investigation of the snow-cover dynamics in the Upper Euphrates Basin of Turkey using remotely sensed snow-cover products and hydrometeorological data
AKYÜREK S. Z. , Surer S., Beser O.
 - HYDROLOGICAL PROCESSES, vol.25, pp.3637-3648, 2011 (Journal Indexed in SCI)
Fuzzy model tuning using simulated annealing
Yanar T. A. , AKYÜREK S. Z.
 - EXPERT SYSTEMS WITH APPLICATIONS, vol.38, pp.8159-8169, 2011 (Journal Indexed in SCI)
Automatic training site selection for agricultural crop classification A case study on Karacabey Plain Turkey
ÖZDARICI OK A., AKYÜREK S. Z.
International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, vol.38, pp.221-226, 2011 (Journal Indexed in SCI Expanded)
 - **Evaluating the utility of the ANSA blended snow cover product in the mountains of eastern Turkey**
AKYÜREK S. Z. , Hall D. K. , Riggs G. A. , ŞENSOY ŞORMAN A.
 - INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.31, pp.3727-3744, 2010 (Journal Indexed in SCI)
Identification and mapping of submerged plants in a shallow lake using quickbird satellite data
Dogan O. K. , AKYÜREK S. Z. , BEKLIÖĞLU M.
 - JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.90, pp.2138-2143, 2009 (Journal Indexed in SCI)
Modelling and forecasting snowmelt runoff process using the HBV model in the eastern part of Turkey
ŞORMAN A. A. , ŞENSOY ŞORMAN A., Tekeli A. E. , Sorman A. U. , Akyurek Z.
 - HYDROLOGICAL PROCESSES, vol.23, pp.1031-1040, 2009 (Journal Indexed in SCI)
Modeling the temporal variation in snow cover area on sub basin scale for simulating forecasting of snowmelt runoff in Turkey
TEKELİ A. E. , AKYÜREK S. Z. , ŞENSOY ŞORMAN A., ŞORMAN A. A. , ŞORMAN A. Ü.
Hydrological Science Journal, vol.50, pp.669-682, 2009 (Journal Indexed in SCI Expanded)
 - **Commentary on comparison of MODIS snow cover and albedo products with ground observations over the mountainous terrain of Turkey**
ŞORMAN A. Ü. , AKYÜREK S. Z. , ŞENSOY ŞORMAN A., ŞORMAN A. A. , TEKELİ A. E.
Hydrology and Earth System Sciences, vol.11, pp.1353-1360, 2007 (Journal Indexed in SCI Expanded)
 - **The enhancement of the cell-based GIS analyses with fuzzy processing capabilities**
Yanar T., Akyurek Z.
 - INFORMATION SCIENCES, vol.176, pp.1067-1085, 2006 (Journal Indexed in SCI)
Accuracy assessment of MODIS daily snow albedo retrievals with in situ measurements in Karasu basin, Turkey
Tekeli A., Sensoy A., Sorman A., Akyurek Z., Sorman U.
 - HYDROLOGICAL PROCESSES, vol.20, pp.705-721, 2006 (Journal Indexed in SCI)
Using MODIS snow cover maps in modeling snowmelt runoff process in the eastern part of Turkey
Tekeli A., Akyurek Z., Sorman A., Sensoy A., Sorman A.
 - REMOTE SENSING OF ENVIRONMENT, vol.97, pp.216-230, 2005 (Journal Indexed in SCI)
Determination of soil hydraulic properties using pedotransfer functions in a semi-arid basin, Turkey
TOMBUL M., AKYÜREK S. Z. , ŞORMAN A. Ü.
 - HYDROLOGY AND EARTH SYSTEM SCIENCES, vol.8, pp.1200-1209, 2004 (Journal Indexed in SCI)
Monitoring the Snow covered Areas from NOAA AVHRR images in the Eastern Part of Turkey
AKYÜREK S. Z. , ŞORMAN A. Ü.

Articles Published in Other Journals

- **Special issue on remote sensing of snow and its applications**
Arslan A. N. , Akyürek Z.
Geosciences (Switzerland), vol.9, 2019 (Refereed Journals of Other Institutions)
- **Cross-Country Assessment of H-SAF Snow Products by Sentinel-2 Imagery Validated against In-Situ Observations and Webcam Photography**
Piazzì G., Tanis C. M. , KUTER S., Simsek B., Puca S., Toniazzo A., Takala M., Akyurek Z., Gabellani S., Arslan A. N.
GEOSCIENCES, vol.9, 2019 (Journal Indexed in ESCI)
- **Dynamic and context-based GIS interoperability to support infrastructure management in municipalities**
Emrah T., AKYÜREK S. Z. , OĞUZTÜZÜN M. H. S.
URISA Journal, vol.26, pp.33-50, 2015 (Refereed Journals of Other Institutions)

Books & Book Chapters

- **An alternative method for snow cover mapping on satellite images by modern applied mathematics**
KUTER S., AKYÜREK S. Z. , KUTER N., WEBER G. W.
in: Modeling, Dynamics, Optimization and Bioeconomics II, Springer Proceedings in Mathematics Statistics, A.A. Pinto and D. Zilberman, Editor, Springer International Publishing, pp.267-292, 2017

Refereed Congress / Symposium Publications in Proceedings

- **KOZMİK IŞIN NÖTRON SENSÖRÜNDEN (CRNP) ELDE EDİLEN TOPRAK NEMİNİN HİDROLOJİK MODELLEMEDE KULLANIMININ DEĞERLENDİRİLMESİ**
Duygu M. B. , Akyürek S. Z.
Hidroloji Kongresi X, Muğla, Turkey, 9 - 12 October 2019, vol.1, pp.29-40
- **Using Cosmic-ray Neutron Probes in validating the Satellite Soil Moisture Products and Land Surface Models**
Duygu M. B. , Akyürek S. Z.
EGU, Vienna, Austria, 7 - 12 April 2019
- **Estimating Actual Evapotranspiration Using Basin Scale Landsat Images in a Semi-Arid Region of Turkey**
Yanmaz D., Akyürek S. Z. , Yücel İ.
EGU, Vienna, Austria, 7 - 12 April 2019
- **A multi-technique approach to determine temporal and spatial variability of groundwater-stream water exchange**
Koruk K., Yılmaz K. K. , Akyürek S. Z. , Binley A.
EGU, Vienna, Austria, 7 - 12 April 2019, vol.21, pp.1080
- **Latest Advances in Fractional Snow Cover Mapping on MODIS data by Machine Learning Algorithms**
Kuter S., Akyürek S. Z. , Weber W.
EGU, Vienna, Austria, 7 - 12 April 2019
- **HAVZA ÖLÇEĞİNDE TEMSİL EDİCİ ALANSAL ORTALAMA BUHARLAŞMA-TERLEME MİKTARININ LANDSAT GÖRÜNTÜLERİNDEN ELDE EDİLMESİ**
Yanmaz D., Akyürek S. Z. , Yücel İ.
VII. UZAKTAN ALGILAMA CBS SEMPOZYUMU, Eskişehir, Turkey, 18 - 21 September 2018, pp.580-589

● **1/25 000 Ölçekli Standart Topoğrafik Haritalardan Elde Edilen Sayısal Yükseklik Modellerinin Doğruluk Analizi**

Akyürek S. Z. , Yıldız S., Aydın A.

UZALCBS, Eskişehir, Turkey, 18 - 21 September 2018, pp.783-792

● **Sentinel-2A Çok Spektral Görüntülerden İkili Kar Örtüsü Haritalaması İçin il Doğrulama Sonuçları**

Akyürek S. Z. , Kunter S.

UZALCBS 2018, Eskişehir, Turkey, 18 - 21 September 2018, pp.481-489

● **Coupled 1-D Hydrodynamics and Sediment Transport Modelling In Flood Analysis: Samsun-Terme River Application**

Onder G., AKYÜREK S. Z.

ACE 2018, 12 - 14 September 2018

● **ADDRESSING SOME GLOBAL CHALLENGES WITH EARTH-OBSERVINGSATELLITE DATA, NEW OR-ANALYTICS AND THE HUMAN FACTOR**

WEBER G. W. , KUTER S., AKYÜREK S. Z.

31 International Seminar of ERGONOMICS, 23 - 25 May 2018

● **Uncertainty analysis of a snowmelt runoff model using Markov Chain Monte Carlo (MCMC) approach**

Akyürek S. Z. , Baig F.

EGU 2018, Vienna, Austria, 8 - 13 April 2018

● **Potential use of Cosmic Ray Neutron Sensor in estimating state variables in hydrological models**

Akyürek S. Z. , Duygu M. B.

EGU 2018, Vienna, Austria, 8 - 13 April 2018

● **Water content estimated from point scale to plot scale".**

AKYÜREK S. Z. , Demir G., Abgarmi B., Binley A.

AGU 2017, 11 - 15 December 2017

● **Fractional Snow Cover Mapping by Artificial Neural Networks and Support Vector Machines**

ÇİFTÇİ B. B. , KUTER S., AKYÜREK S. Z. , WEBER G. W.

ISPRS GeoAdvances 2017, Safranbolu, Karabük, Turkey, 14 - 15 October 2017

● **How well COSMIC ray Probes measure the wide area snow water equivalent?**

AKYÜREK S. Z. , Demir G., Duygu M. B.

Snow: An Ecological Phenomena., 19 - 21 September 2017

● **Radar bias correction using Kalman filtering approach and spatio temporal kriging with external drift**

AKYÜREK S. Z. , BOSTAN P., Ozkaya A.

Spatial Statistics-One World : One Healt, 4 - 07 July 2017

● **Establishing a Critical Zone Observatory site in Turkey**

DEMİR G., AKYÜREK S. Z. , BİNLEY A., YÜCEL İ., KENTEL ERDOĞAN E., MERZİ N., YILMAZ M. T. , YANMAZ A. M.

European Geosciences Union General Assembly 2017, 23 - 28 April 2017

● **Fractional Snow Cover Mapping from MODIS data over European Alps by Multivariate Adaptive Regression Splines.**

KUTER S., AKYÜREK S. Z. , Weber W.

8th -EARSel Workshop on Land Ice and Snow, 7 - 09 February 2017

● **Subpixel Snow Cover Mapping from MODIS Data by Nonparametric Regression Splines**

KUTER S., AKYÜREK S. Z. , WEBER W.

49th Fall Meeting of American Geophysical Union, 12 - 16 December 2016

● **Evaluating the use of different precipitation datasets in simulating a flood event**

AKYÜREK S. Z. , Özkaya A.

AGU 2016, San-Francisco, Costa Rica, 12 - 16 December 2016

● **ESTIMATION OF SUBPIXEL SNOW-COVERED AREA BY NONPARAMETRIC REGRESSION SPLINES**

KUTER S., AKYÜREK S. Z. , Weber G. -.

3rd International GeoAdvances Workshop / ISPRS Workshop on Multi-dimensional and Multi-Scale Spatial Data Modeling, İstanbul, Turkey, 16 - 17 October 2016, pp.31-36

- **Evaluating the use of radar precipitation data in simulating a flood event in Terme Samsun Turkey**
AKYÜREK S. Z. , Özkaya A.
ERAD -9th European Conference on Radar in Meteorology, 10 - 14 October 2016
- **Soft Classification of Satellite Data for Snow Mapping by using Multivariate Adaptive Regression Splines**
KUTER S., AKYÜREK S. Z. , Weber W.
28th European Conference on Operational Research, 3 - 06 July 2016
- **Evaluating the use of different precipitation datasets in flood modelling**
AKYÜREK S. Z. , Ozkaya A.
EGU 2016, 17 - 22 April 2016
- **The importance of precise DEMs in modelling flood**
Demir G., AKYÜREK S. Z.
EGU 2016, 17 - 22 April 2016
- **American Geophysical Union Fall Meeting**
AKYÜREK S. Z. , Başar B., Girayhan F., Hayrettin M.
AGU Meeting, 14 - 18 December 2015
- **YAĞIŞIN ZAMAN VE MEKÂNDA DAĞILIMININ ELDE EDİLMESİ**
ASLANTAŞ P., AKYÜREK S. Z. , Gerard H.
VIII. Hidroloji Kongresi, Turkey, 8 - 10 October 2015, pp.430-447
- **ÇOKLUMETRİK ÇERÇEVE İLE HBV MODELİNİN KALİBRASYONU**
Sürer S., Yılmaz K., AKYÜREK S. Z.
VIII Hidroloji Kongresi, Turkey, 8 - 10 October 2015, pp.210-212
- **Upstream structural management measures for an urban area flooding in Turkey**
AKYÜREK S. Z. , Bozoglu B., Surer S., Mumcu H.
Symposium on Changes in Flood Risk and Perception in Catchments and Cities, Prague, Czech Republic, 22 June - 02 July 2015, vol.370, pp.45-50
- **AUTOMATIC TRAINING SITE SELECTION FOR AGRICULTURAL CROP CLASSIFICATION: A CASE STUDY ON KARACABEY PLAIN, TURKEY**
OK A., AKYÜREK S. Z.
ISPRS Hannover Workshop on High-Resolution Earth Imaging for Geospatial Information, Hannover, Germany, 14 - 17 June 2011, pp.221-225
- **SPATIO-TEMPORAL ANALYSIS OF PRECIPITATION AND TEMPERATURE DISTRIBUTION OVER TURKEY**
Bostan P. A. , AKYÜREK S. Z.
Joint International Conference on Theory, Data Handling and Modelling in GeoSpatial Information Science, Hong Kong, PEOPLES R CHINA, 26 - 28 May 2010, vol.38, pp.92-97
- **Assessment of different topographic corrections in MODIS data for mapping effective snow covered areas in mountainous terrain**
AKYÜREK S. Z. , Sorman A. U.
28th European-Association-of-Remote-Sensing-Laboratories (EARSeL) Symposium and Workshops on Remote Sensing for a Changing Europe, İstanbul, Turkey, 2 - 05 June 2008, pp.61-72
- **Real time snow recognition from msg satellite for mountainous areas**
Surer S., Gokdemir O., Beser O., AKYÜREK S. Z. , Sorman A. U. , Erturk A. G.
28th European-Association-of-Remote-Sensing-Laboratories (EARSeL) Symposium and Workshops on Remote Sensing for a Changing Europe, İstanbul, Turkey, 2 - 05 June 2008, pp.86-93
- **Monitoring Changes in Surface Mining Area by Using SPOT Satellite Images**
DEMİREL N., ÖZGENOĞLU A., AKYÜREK S. Z. , FRIMPONG S.
SCSC 2003 Advanced Simulation Technologies Conference, Montreal, Canada, 20 - 24 July 2003, pp.139-144
- **Monitoring the Overburden Excavation Stripping in Open Cast Mines by Using GIS and RS**
DEMİREL N., ÖZGENOĞLU A., AKYÜREK S. Z.
7th International Symposium on Environmental Issues and Waste Management in Energy and Mineral Production, Cagliari, Italy, 7 - 10 October 2002, pp.373-380

Supported Projects

Akyürek S. Z. , Other Supported Projects, EUMETSAT H-SAF Proje Kapsamında Meteorolojik Uydu Verilerinin Operasyonel Hidroloji ve Su Kaynakları Yönetiminde Kullanım, 2017 - 2022

Yücel İ., Akyürek S. Z. , Kentel Erdoğan E., Yanmaz A. M. , Merzi N., Aksu H., Yakut M., TUBITAK Project, Kavramsal Hidrolojik Model ile Hidrolojik Döngü Parametrelerinin Elde Edilmesi, 2016 - 2019

AKYÜREK S. Z. , ÖZKAYA A., Project Supported by Higher Education Institutions, Taşkın Alanı Belirleme Çalışmalarında Radar ve Uydu Yağış Verilerinin Hidrolojik Modelleme Üzerindeki Etkisi: Samsun-Terme Örneği, 2015 - 2015

AKYÜREK S. Z. , Project Supported by Higher Education Institutions, Me-Top-Avhrr Uydu Verisi Kullanılarak Etkili Kar Kaplı Alan Algoritmasının Geliştirilmesi, 2012 - 2012

AKYÜREK S. Z. , Project Supported by Higher Education Institutions, Bölgesel Debi-Süreklilik Eğrilerinin Geliştirilmesi Ve Akım Gözlemi Olmayan Havzalarda Güvenirliğinin Belirlenmesi, 2009 - 2009

AKYÜREK S. Z. , Project Supported by Higher Education Institutions, Tarım Alanlarının Sınıflandırılmasında Doğruluğu Arttırmak İçin Çeşitli Füzyon Metodlarının Optik, Radar Ve Hiperspektral Verilere Uygulanması, 2008 - 2008

Activities in Scientific Journals

Geosciences, Editor, 2018 - 2018

Scientific Refereeing

INTERNATIONAL JOURNAL OF REMOTE SENSING, SCI Journal, October 2019

JOURNAL OF HYDROLOGY, SCI Journal, October 2019

JOURNAL OF HYDROLOGIC ENGINEERING, SCI Journal, October 2019

TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, Middle East Technical University, Turkey, October 2019

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, October 2019

JOURNAL OF HYDROLOGIC ENGINEERING, SCI Journal, September 2019

JOURNAL OF HYDROLOGIC ENGINEERING, SCI Journal, September 2019

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, July 2019

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, July 2019

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2019

ADVANCES IN SPACE RESEARCH, SCI Journal, April 2019

Journal Of Hydrologic Engineering, SCI Journal, April 2019

JOURNAL OF HYDROLOGIC ENGINEERING, SCI Journal, April 2019

TEKNIK DERGI, National Scientific Refreed Journal, December 2018

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, Journal Indexed in SCI-E, November 2018

MATHEMATICAL PROBLEMS IN ENGINEERING, Journal Indexed in SCI-E, October 2018

NATURAL HAZARDS, SCI Journal, May 2018

REMOTE SENSING OF ENVIRONMENT, SCI Journal, March 2018

JOURNAL OF HYDROLOGIC ENGINEERING, Journal Indexed in SCI-E, February 2018

JOURNAL OF HYDROLOGY, SCI Journal, February 2018

Advances In Space Research, Journal Indexed in SCI-E, February 2018

Journal Of Hydrologic Engineering, Journal Indexed in SCI-E, January 2018

JOURNAL OF HYDROLOGIC ENGINEERING, Journal Indexed in SCI-E, January 2018

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical

University, Turkey, January 2018

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, January 2018

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, January 2018

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, January 2018

Scientific Consultations

TUBITAK, Project Consultancy, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, Turkey, 2018 - 2019

Tasks In Event Organizations

Akyürek S. Z. , Avrupa-Uzun Dönemli Ekolojik Araştırma Ağı (e-LTER) ile Türkiye- Uzun Dönemli Ekolojik Araştırma Ağı (tr-LTER) Oluşturma Çalıştayı ve "Kavramsal Hidrolojik Model ile Hidrolojik Döngü Parametrelerinin Elde Edilmesi" TUBITAK 115Y041 Projesi Sonuçları Paylaşım ve Değerlendirme Toplantısı, Workshop Organization, Ankara, Turkey, Haziran 2019

Scientific Research / Working Group Memberships

Tujjb -Tuhk, Middle East Technical University, Turkey, <http://www.tujjb.org.tr/s-2-tuhk.html>, 2005 - Continues

Invited Congress and Symposium Activities

HSAF PProject Meeting, Working Group, Reading, United Kingdom, 2018

EGU, Working Group, Vienna, Austria, 2018

Citations

Total Citations (WOS):515

h-index (WOS):11

Entrepreneurship Activities

Limited, Hidrosaf YAZ. Bil.Dan. Ltd. ŞTi., 19 September 2014, Owner