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Education Information

Doctorate, Istanbul Technical University, İnşaat Fakültesi, Jeodezi Ve Fotogrametri Mühendisliği Bölümü, Turkey 1988 - 1993

Postgraduate, Istanbul Technical University, İnşaat Fakültesi, Jeodezi Ve Fotogrametri Mühendisliği Bölümü, Turkey 1986 - 1988

Undergraduate, Istanbul Technical University, İnşaat Fakültesi, Jeodezi Ve Fotogrametri Mühendisliği Bölümü, Turkey 1981 - 1985

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Kırsal Bölgelerde Bilgi Sistemlerinin Uygulanması Olanakları, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Jeodezi Ve Fotogrametri Mühendisliği Bölümü, 1993

Postgraduate, Hava Triyagölasyonunda Değişen Baz Aralıklarına Göre Prezisyon Araştırması, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, 1988

Research Areas

Geotechnical Engineering, Geographic Information Systems, Land Information Systems, Environmental Information Systems, Photogrammetry, Geodesy and Photogrammetry, Remote sensing, Image Processing, 3D-Modeling, Engineering and Technology

Academic Titles / Tasks

Professor, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, 2004 - Continues

Associate Professor, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, 1997 - 2004

Assistant Professor, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, 1996 - 1997

Research Assistant, Istanbul Technical University, İnşaat, Geomatik Mühendisliği, 1986 - 1996

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Minimizing the Limitations in Improving Historical Aerial Photographs with Super-Resolution Technique**
Incekara A. H., Alganci U., Arslan O., Seker D. Z.
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- II. **GIS and remotely sensed data-based morphometric elements analysis for determination of Bengal Basin evolution**
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- III. **Improving Road Segmentation by Combining Satellite Images and LiDAR Data with a Feature-Wise Fusion Strategy**
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- IV. **Comparison of residual and dense neural network approaches for building extraction from high-resolution aerial images**
Sarıtürk B., Şeker D. Z.
Advances in Space Research, vol.71, no.7, pp.3076-3089, 2023 (SCI-Expanded)
- V. **A dense residual U-net for multiple sclerosis lesions segmentation from multi-sequence 3D MR images**
Sarica B., Şeker D. Z., BAYRAM B.
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- VI. **Comparative Analysis of Different CNN Models for Building Segmentation from Satellite and UAV Images**
Sarıtürk B., Kumbasar D., Şeker D. Z.
Photogrammetric Engineering and Remote Sensing, vol.89, no.2, pp.97-105, 2023 (SCI-Expanded)
- VII. **A Residual-Inception U-Net (RIU-Net) Approach and Comparisons with U-Shaped CNN and Transformer Models for Building Segmentation from High-Resolution Satellite Images**
Sarıtürk B., Şeker D. Z.
SENSORS, vol.22, no.19, 2022 (SCI-Expanded)
- VIII. **Performance evaluation of shallow and deep CNN architectures on building segmentation from high-resolution images**
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EARTH SCIENCE INFORMATICS, vol.15, no.3, pp.1801-1823, 2022 (SCI-Expanded)
- IX. **New MS lesion segmentation with deep residual attention gate U-Net utilizing 2D slices of 3D MR images**
Sarica B., Şeker D. Z.
FRONTIERS IN NEUROSCIENCE, vol.16, 2022 (SCI-Expanded)
- X. **Generation of Istanbul road data set using Google Map API for deep learning-based segmentation**
Öztürk O., Işık M. S., Sarıtürk B., Şeker D. Z.
INTERNATIONAL JOURNAL OF REMOTE SENSING, vol.43, no.8, pp.2793-2812, 2022 (SCI-Expanded)
- XI. **INVESTIGATION OF POTENTIAL USAGE OF UAV BASED PHOTOGRAMMETRY AND LIDAR FOR FOREST INVENTORY**
Sarıtürk B., Öztürk O., Vardar E., Şeker D. Z.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.31, no.8A, pp.8475-8481, 2022 (SCI-Expanded)
- XII. **CONTRIBUTIONS OF OPEN SOURCE TOOLS FOR ROAD DATA PRODUCTION IN DEEP LEARNING APPLICATIONS**

- Öztürk O., Sarıtürk B., Şeker D. Z.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.31, no.8A, pp.8542-8546, 2022 (SCI-Expanded)
- XIII. **The Analysis on the Annual Change of Digital Aerial Camera's IMUs Boresight Misalignment**
Kayi A., BAYRAM B., Şeker D. Z.
PHOTOGRAMMETRIC ENGINEERING AND REMOTE SENSING, vol.87, no.11, pp.801-806, 2021 (SCI-Expanded)
- XIV. **River channel migration and land-use/land-cover change for Padma River at Bangladesh: a RS- and GIS-based approach**
Arefin R., Meshram S. G., Seker D. Z.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.18, no.10, pp.3109-3126, 2021 (SCI-Expanded)
- XV. **Machine Learning-Based Supervised Classification of Point Clouds Using Multiscale Geometric Features**
Atik M. E., Duran Z., Şeker D. Z.
ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION, vol.10, no.3, 2021 (SCI-Expanded)
- XVI. **HISTORICAL DEVELOPMENT OF DIGITAL PHOTOGRAMMETRIC AERIAL SENSOR CALIBRATION**
Kayi A., BAYRAM B., Şeker D. Z.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.30, no.6, pp.6319-6326, 2021 (SCI-Expanded)
- XVII. **Assessment of the indoor air quality based on airborne bacteria and fungi measurements in a public school of Istanbul**
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ARABIAN JOURNAL OF GEOSCIENCES, vol.13, no.24, 2020 (SCI-Expanded)
- XVIII. **An automatic image matching algorithm based on thin plate splines**
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- XIX. **Implementation of ultra-light UAV systems for cultural heritage documentation**
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- XX. **Location-Based Analyses for Electronic Monitoring of Parolees**
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- XXI. **Dimension reduction methods applied to coastline extraction on hyperspectral imagery**
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GEOCARTO INTERNATIONAL, vol.35, no.4, pp.376-390, 2020 (SCI-Expanded)
- XXII. **GIS based evaluation of social determinants of children's health in Turkey: Case study of Istanbul**
Doğru A. Ö., Kahraman A., Şeker D. Z., Sivri N.
ENVIRONMENTAL RESEARCH, vol.179, 2019 (SCI-Expanded)
- XXIII. **A nonparametric fuzzy shoreline extraction approach from Sentinel-1A by integration of RASAT pan-sharpened imagery**
DEMİR N., BAYRAM B., Şeker D. Z., Oy S., Erdem F.
GEO-MARINE LETTERS, vol.39, no.5, pp.401-415, 2019 (SCI-Expanded)
- XXIV. **The Impact of Dust and Sandstorms in Increasing Drought Areas in Nineveh Province, North-western Iraq**
Yahya B. M., Şeker D. Z.
JOURNAL OF ASIAN AND AFRICAN STUDIES, vol.54, no.3, pp.346-359, 2019 (SSCI)
- XXV. **Advanced Lake Shoreline Extraction Approach by Integration of SAR Image and LIDAR Data**
DEMİR N., BAYRAM B., Şeker D. Z., Oy S., Ince A., Bozkurt S.
MARINE GEODESY, vol.42, no.2, pp.166-185, 2019 (SCI-Expanded)
- XXVI. **Designing Weather Forecasting Model Using Computational Intelligence Tools**
Yahya B. M., Şeker D. Z.
APPLIED ARTIFICIAL INTELLIGENCE, vol.33, no.2, pp.137-151, 2019 (SCI-Expanded)
- XXVII. **DETERMINATION OF RESERVOIR SEDIMENTATION WITH BATHYMETRIC SURVEY: A CASE STUDY OF**

OBRUK DAM LAKE

İLÇİ V., OZULU İ. M., Alkan R. M., Erol S., UYSAL M., Kalkan Y., Bilgi S., Şeker D. Z.

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XXVIII. **The Rising Role of Big Data Analytics and IoT in Disaster Management: Recent Advances, Taxonomy and Prospects**

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XXIX. **EXAMINATION OF THE GREEN SPACES BASED ON SPATIAL SUFFICIENCY AND ACCESSIBILITY THROUGH GIS**

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XXX. **ANALYZING THE IMPACT OF AN EARTHQUAKE ON THE SHORELINE USING SAR IMAGES AS ALTERNATIVE DATA SET**

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XXXI. **OBJECT BASED CLASSIFICATION OF UNMANNED AERIAL VEHICLE (UAV) IMAGERY FOR FOREST FIRES MONITORING**

Bilgilioglu B. B., Ozturk O., Saritürk B., Seker D. Z.

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XXXII. **GIS BASED INVENTORY AND DOCUMENTATION OF MONUMENTAL TREES IN BLACK SEA REGION OF TURKEY**

Şeker D. Z., Sivri N., Demir M., Baytimur A., Gunduz E., Eroglu M. F.

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XXXIII. **ASSESSMENT OF THE RELATIONSHIP BETWEEN LAND USE/COVER CHANGES AND LAND SURFACE TEMPERATURES: A CASE STUDY OF THERMAL REMOTE SENSING**

Çelik B., Kaya Ş., Algancı U., Şeker D. Z.

FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, pp.541-547, 2019 (SCI-Expanded)

XXXIV. **Towards Disaster Resilient Smart Cities: Can Internet of Things and Big Data Analytics Be the Game Changers?**

Shah S. A., Şeker D. Z., Rathore M. M., Hameed S., Ben Yahia S., Draheim D.

IEEE ACCESS, vol.7, pp.91885-91903, 2019 (SCI-Expanded)

XXXV. **GIS BASED EVALUATION OF HEALTH SERVICES IN TURKEY**

Doğru A. Ö., Arslan T., Uluğtekin N. N., Şeker D. Z.

FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, no.2, pp.548-553, 2019 (SCI-Expanded)

XXXVI. **USING SATELLITE IMAGERIES AND ORTHOPHOTO TO QUANTIFY ENVIRONMENTAL IMPACT OF MINING ACTIVITIES IN FOREST AREA**

İNCEKARA A. H., DELEN A., Şeker D. Z., BALIK ŞANLI F., SUSAM T.

FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, no.2, pp.806-812, 2019 (SCI-Expanded)

XXXVII. **Turkey OpenStreetMap Dataset - Spatial Analysis of Development and Growth Proxies**

Zia M., Cakir Z., Şeker D. Z.

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XXXVIII. **MAPPING HAZELNUT TREES FROM HIGH RESOLUTION DIGITAL ORTHOPHOTO MAPS: A QUANTITATIVE COMPARISON OF AN OBJECT AND A PIXEL BASED APPROACHES**

Jamil A., BAYRAM B., Şeker D. Z.

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XXXIX. **Investigating the Utility Potential of Low-Cost Unmanned Aerial Vehicles in the Temporal Monitoring of a Landfill**

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ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION, vol.8, no.1, 2019 (SCI-Expanded)

XL. **Qualifying the LIDAR-Derived Intensity Image as an Infrared Band in NDWI-Based Shoreline Extraction**

İncekara A. H., Şeker D. Z., Bayram B.

IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING, vol.11, no.12, pp.5053-5062, 2018 (SCI-Expanded)

- XLl. **Comparative Analyses of the Point Cloud Produced by Using Close-Range Photogrammetry and Terrestrial Laser Scanning for Rock Surface**
İNCEKARA A. H., Şeker D. Z.
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- XLII. **An Extended Approach of Particle Swarm Optimization for Shoreline Extraction from RASAT Imagery**
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- XLIII. **Open Source Library-based 3D Face Point Cloud Generation**
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CHIANG MAI JOURNAL OF SCIENCE, vol.45, no.4, pp.1875-1887, 2018 (SCI-Expanded)
- XLIV. **Distribution of enteric bacteria by means of GIS and detection of Escherichia coli with uidA gene in Kapidag Peninsula of Marmara Sea**
Sivri N., Allen M. J., Jones M., Şeker D. Z., Durmus T., Balci M., Balkis N.
INDIAN JOURNAL OF GEO-MARINE SCIENCES, vol.47, no.7, pp.1495-1501, 2018 (SCI-Expanded)
- XLV. **Fiber quantity analysis of cementitious composite using multifocus imagery**
AKÇAY Ö., Pekmezci B. Y., Şeker D. Z., Tuncel E. Y., Atahan H. N.
POLYMER COMPOSITES, vol.39, no.6, pp.2126-2134, 2018 (SCI-Expanded)
- XLVI. **Automatic extraction of sparse trees from high-resolution ortho-images**
Bayram B., Şeker D. Z., Jamil A., REİS H. Ç., DEMİR N., Bozkurt S., Ince A., Kucuk T.
ARABIAN JOURNAL OF GEOSCIENCES, vol.11, no.12, 2018 (SCI-Expanded)
- XLVII. **Spatial Transformation of Equality - Generalized Travelling Salesman Problem to Travelling Salesman Problem**
Zia M., Cakir Z., Şeker D. Z.
ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION, vol.7, 2018 (SCI-Expanded)
- XLVIII. **Comparison of low cost 3D structured light scanners for face modeling**
Bakirman T., Gümüşay M. Ü., Reis H. Ç., Selbesoğlu M. O., Yosmaoglu S., Selbesoğlu M. O., Şeker D. Z., Bayram B.
APPLIED OPTICS, vol.56, no.4, pp.985-992, 2017 (SCI-Expanded)
- XLIX. **THE ROLE OF SPATIAL ANALYSIS FOR AQUACULTURE: A CASE STUDY OF KEBAN DAM LAKE**
SIVRI N., Şeker D. Z., Algancı U., Basusta N., Basusta A., AKGUN H.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, no.1, pp.405-412, 2017 (SCI-Expanded)
- L. **The relationship between income level and CFP level of the provinces in Turkey: a case study**
OZBAS E. E., SİVRİ N., Sarıtürk B., ONGEN A., Özcan H. K., Şeker D. Z.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.11, no.3, pp.294-304, 2017 (SCI-Expanded)
- LI. **THE ROLE OF NATIONAL AND INTERNATIONAL GEOSPATIAL DATA SOURCES IN COASTAL ZONE MANAGEMENT**
Bayram B., Avsar O., Şeker D. Z., KAYI A., ERDOGAN M., Eker O., JANPAULE I., Reis H. C.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, no.1, pp.383-391, 2017 (SCI-Expanded)
- LII. **A STUDY TO DETERMINE LEVEL OF AWARENESS ABOUT HEALTH AND CARBON FOOTPRINT AMONG GEOMATICS ENGINEERS IN TURKEY**
Sarıtürk B., SİVRİ N., Şeker D. Z.
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- LIII. **SPATIO-TEMPORAL ANALYSIS OF PM2.5 OVER MARMARA REGION, TURKEY**
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- LIV. **SATELLITE-BASED TEMPORAL ASSESSMENT OF A DRIED LAKE: CASE STUDY OF AKGOL WETLAND**
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- LV. **ENHANCING INDIVIDUAL'S CARBON FOOTPRINT ESTIMATION VIA SPATIAL DATA**

- Demirel H., KAZAN O., Şeker D. Z.
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- LVI. **DETERMINING CHARACTERISTICS OF LANDS AFFECTED BY NOISE POLLUTION OF AIRPORTS**
Hamamcı S. F., Doğru A. Ö., SARI D., OZKURT N., Şeker D. Z.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, no.1, pp.69-74, 2017 (SCI-Expanded)
- LVII. **COMPARISON OF GLOBAL DISTRIBUTIONS OF ATMOSPHERIC CARBON DIOXIDE WITH GIS BASED ATMOSPHERIC CARBON DIOXIDE CONCENTRATION RESEARCH IN ITU CAMPUS, ISTANBUL-TURKEY**
Denli H. H., Şeker D. Z., DENLİ G. O.
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- LVIII. **PREDICTION OF WATER CONSUMPTION IN ISTANBUL BY MEANS OF STATISTICAL FORECASTING MODELS & GEOGRAPHIC INFORMATION SYSTEMS (GIS)**
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- LIX. **GIS based spatial pattern analysis: Children with Hepatitis A in Turkey**
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- LX. **Exploring possible impacts of sea level rise: the case of Izmir, Turkey**
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- LXI. **EVALUATION OF BEACH PROFILE CHANGES BY USING TERRESTRIAL LASER SCANNER**
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- LXII. **GIS BASED MULTI-CRITERIA DECISION ANALYSIS FOR SITE SELECTION OF A WASTEWATER TREATMENT PLANT**
Şeker D. Z., YUCEL U.
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- LXIII. **A semiautomatic segmentation approach to biometric measurement of the talus bone of sedentary women and ballerinas using CT images**
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- LXIV. **Culturable airborne bacteria and isolation of methicillin-resistant coagulase-negative staphylococci from outdoor environments on European side of Istanbul, Turkey**
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- LXV. **Temporal analysis of coastal erosion in Turkey: a case study Karasu coastal region**
Gormus K. S., Kutoglu S. H., Şeker D. Z., Ozolcer I. H., Oruc M., Aksoy B.
JOURNAL OF COASTAL CONSERVATION, vol.18, no.4, pp.399-414, 2014 (SCI-Expanded)
- LXVI. **DEFINITION OF FLOOD RISKY AREAS WITH CALCULATION OF STREAM WATER VELOCITY VIA USING NUMERICAL MODEL: CASE STUDY OF FİLYOS RIVER, TURKEY**
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- LXVII. **TEMPORAL IMPACT OF URBANIZATION ON THE PROTECTION ZONES OF TWO DRINKING WATER RESERVOIRS IN ISTANBUL**
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- LXVIII. **Landscape-based integrated water resources management in Nakhchivan Autonomous Republic**
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- LXIX. **THE PREDICTION OF FLOW-RATE AND NUTRIENT LOAD IN ERGENE RIVER BASIN THROUGH ARTIFICIAL NEURAL NETWORKS**
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- FRESENIUS ENVIRONMENTAL BULLETIN, vol.23, pp.3202-3211, 2014 (SCI-Expanded)
- LXX. **ANALYSIS OF THE REGIONAL CHANGES OF HYDROELECTRIC POWER PLANTS IN THE EASTERN BLACK SEA REGION OF TURKEY**
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- LXXI. **POTENTIAL IMPACTS OF SEA LEVEL RISE ON THE COASTAL VULNERABILITY OF CUKUROVA DELTA**
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- LXXII. **An Integrated Approach to Temporal Monitoring of the Shoreline and Basin of Terkos Lake**
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- LXXIII. **Monitoring Spatial and Temporal Land Use/Cover Changes; a Case Study in Western Black Sea Region of Turkey**
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- LXXIV. **Monitoring the drastic growth of ship breaking yards in Sitakunda: a threat to the coastal environment of Bangladesh**
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- LXXV. **Practical estimation and distribution of diffuse pollutants arising from a watershed in Turkey**
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Şeker D. Z., Project Supported by Higher Education Institutions, Yakın Resim Fotogrametrisi ve Lazer Tarama Teknikleriyle Üretilen Nokta Buutlarının Karşılaştırılması, 2016 - 2018

Gürel M., Tanık A. G., Şeker D. Z., Kırıkoğlu M. S., ERTÜRK A., Ekdal A., Duran Z., Özdamar Ş., Algancı U., Kaya Ş., et al., Project Supported by Higher Education Institutions, BÜYÜK MELEN HAVZASI BÜTÜNLEŞİK SU YÖNETİMİ, 2015 - 2018

Şeker D. Z., Project Supported by Higher Education Institutions, YERSEL LAZER TARAYICILAR YARDIMIYLA KIYI PROFİLLERİNDEKİ DEĞİŞİMİN MODELLENMESİ VE İZLENMESİ, 2015 - 2018

Şeker D. Z., Project Supported by Higher Education Institutions, CAD Dosyalarının CBS'ye Aktarılmasında Yeni Bir Yaklaşım, 2014 - 2018

Şeker D. Z., Project Supported by Higher Education Institutions, Türkiye için CBS Tabanlı Doğalgaz Veri Modeli Geliştirme, 2013 - 2018

Şeker D. Z., Project Supported by Higher Education Institutions, Uydu Görüntüleri Yardımıyla Arazi Kullanımı Dinamiklerine Bağlı Şehirleşmenin Zamansal Analizi Antalya Örneği, 2012 - 2018

Şeker D. Z., Project Supported by Higher Education Institutions, WORLDVIEW-2 UYDU GÖRÜNTÜLERİYLE ÜZÜM BAĞLARININ HARİTALANMASI, 2011 - 2018

Şeker D. Z., Project Supported by Higher Education Institutions, KÜLTÜREL MİRAS İÇİN CBS TABANLI BİLGİ VE YÖNETİM SİSTEMİ GELİŞTİRİLMESİ SAFRANBOLU ÖRNEĞİ, 2010 - 2018

Şeker D. Z., Project Supported by Higher Education Institutions, Tarihi Köprülerin Potogrametri ve Sanal Gerçeklik Kullanılarak Modellenmesi, 2006 - 2018

Şeker D. Z., Project Supported by Higher Education Institutions, Sürdürülebilir Kalkınma için Bir Kıyı Yönetimi Tasarımı; İstanbul Tarihi Yarımada Örneği, 2005 - 2018

Şeker D. Z., Project Supported by Higher Education Institutions, Darlık Havzası ve Karadeniz Bağlantısının Uydu Görüntüleri ve CBS Yardımıyla İzlenmesi ve Analizi, 2004 - 2018

Şeker D. Z., Project Supported by Higher Education Institutions, Ülkemizdeki Geomatik Mühendisliği Lisans Öğrencileri ve Mezunlarının Karbon Ayak İzine İlişkin Öncül Araştırma ve Değerlendirmeler, 2016 - 2016

Şeker D. Z., Project Supported by Higher Education Institutions, Röntgen Filmlerinin Üç Boyutlu Modellenmesi ve Değerlendirilmesi, 2006 - 2007

Memberships / Tasks in Scientific Organizations

The Mediterranean Scientific Association of Environmental Protection, Vice President, 2016 - Continues

The Mediterranean Scientific Association of Environmental Protection, Vice President, 2014 - 2016

The Mediterranean Scientific Association of Environmental Protection, Member, 2012 - 2014

Metrics

Publication: 420

Citation (WoS): 938

Citation (Scopus): 1039

H-Index (WoS): 21

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Non Academic Experience

İstanbul Teknik Üniversitesi İnşaat Fak.

İstanbul Teknik Üniversitesi İnşaat Fak.

Tapu ve Kadastro Genel Müdürlüğü