

Prof. Hande Demirel

Personal Information

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Education Information

Doctorate, Technische Universitaet Berlin, Bauingenieurwesen Und Angewandte Geowissenschaften , Inst F. Geoinformatik, Germany 1998 - 2002

Post Graduate, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Jeodezi Ve Fotogrametri Mühendisliği Bölümü, Turkey 1996 - 1998

Under Graduate, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Jeodezi Ve Fotogrametri Mühendisliği Bölümü, Turkey 1991 - 1996

Foreign Languages

German, C1 Advanced

Spanish, B2 Upper Intermediate

English, C1 Advanced

Certificates, Courses and Trainings

Quality Management, Avrupa Birliği Proje Değerlendirmesi, Avrupa Birliği, 2017

Quality Management, MÜDEK değerlendiricisi, MÜDEK, 2005

Dissertations

Doctorate, An integrated approach to the Conceptual Data modelling of an Entire Highway Agency Geographic Information System (GIS), Technische Universitaet Berlin, Inst F. Geoinformatik, 2002

Post Graduate, Digital ortofotolarda sayısal arazi modellerinin doğruluğu, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Jeodezi Ve Fotogrametri Mühendisliği Bölümü, 1998

Research Areas

Atmospheric Sciences and Meteorological Engineering, Climate, Climate Change and Climate Modeling, Environmental Engineering, Environmental Technology, Environmental Impact Assessment, Environmental Risk Assessment, Geotechnical Engineering, Geographic Information Systems, Environmental Information Systems, City Information Systems, Spatial Data Infrastructures, Photogrammetry, Overhead Photogrammetry, Geodesy and Photogrammetry, Computer Sciences, Database and Data Structures, Data Representation and Storage, Data Structures, Database Systems, Civil Engineering, 3D-Modeling, Multi-Criteria Decision Making Analysis, Engineering and Technology

Academic Titles / Tasks

Associate Professor, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Geomatik Mühendisliği Bölümü, 2009 - Continues

Assistant Professor, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Geomatik Mühendisliği Bölümü, 2004 - 2008

Professional Experience

Courses

Introduction to programming (Python), Under Graduate, 2016 - 2017

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

- **A comparative analysis of gridding systems for point-based land cover/use analysis**
Shoman W., Algancı U., Demirel H.
GEOCARTO INTERNATIONAL, vol.34, pp.867-886, 2019 (Journal Indexed in SCI)
- **DYNAMIC MONITORING OF LAND COVER CHANGE: A RECENT STUDY FOR ISTANBUL METROPOLITAN AREA**
Shoman W., Korkutan M., Algancı U., Tanık A. G. , Demirel H.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, pp.688-693, 2019 (Journal Indexed in SCI)
- **ANALYZING GRIDDING SYSTEMS FOR LAND COVER/LAND USE INFORMATION: A STUDY CONDUCTED FOR GREEN AREAS**
Shoman W., Algancı U., Demirel H.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, pp.694-699, 2019 (Journal Indexed in SCI)
- **SPATIO- TEMPORAL DETECTION OF ACCESSIBILITY CHANGE ON HEALTH CARE: A CASE STUDY FOR ISTANBUL**
Shoman W., Demirel H.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, pp.700-704, 2019 (Journal Indexed in SCI)
- **Spatio-temporal evaluation of transport accessibility of the Istanbul metrobus line**
Shoman W., Demirel H.
Geocarto International, vol.1, no.1, pp.1-12, 2018 (Journal Indexed in SCI)
- **Exploring possible impacts of sea level rise: the case of Izmir, Turkey**
Aksoy H., Demirel H., Şeker D. Z.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.13, pp.398-410, 2017 (Journal Indexed in SCI)

Articles Published in Other Journals

- **MODELING LAND USE SIMULATION OF ISTANBUL FOR 2023 WITH LOGISTIC REGRESSION**
Aldogan C. F. , Akın Ö., Eroglu A., Demirel H.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.9, pp.349-354, 2018 (Journal Indexed in ESCI)
- **GEOGRAPHIC INFORMATION SYSTEM (GIS) BASED ACCESSIBILITY ANALYSIS FOR HIGHWAY TRANSPORTATION**
DEMİREL H., KORKUTAN M., SHOMAN W., ALGANCI U.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.8, pp.339-344, 2017 (Journal Indexed in ESCI)

Supported Projects

Demirel H., Algancı U., Tanık A. G. , TUBITAK Project, Coğrafi Bilgi Sistemleri (CBS) Tabanlı Karayolu Ulaşımı Erişilebilirlik Analizi, 2016 - 2018

Demirel H., EU Supported Other Project, Adaptation of transport to climate change, 2016 - 2018

Demirel H., Project Supported by Higher Education Institutions, ÇOK MODLU KENTİÇİ ULAŞTIRMA AĞLARINDA ERİŞİLEBİLİRLİĞİN AZALMASININ ANALİZİ, 2015 - 2018

Demirel H., Project Supported by Higher Education Institutions, Ulaştırma Politikalarında Tahminlerin Rolü ve Tahmin Sanatı Kavramsal Yanılgılar İlüzyonlar ve Bilişsel Hatalar, 2013 - 2018

Demirel H., Project Supported by Higher Education Institutions, İSTANBUL AVRUPA YAKASININ ARAZİ KULLANIMININ TAHMİNİ, 2010 - 2018

Demirel H., Project Supported by Higher Education Institutions, MODELLİNG URBAN DYNAMİCS THROUGH CELLULAR AUTOMATA, 2009 - 2018

Demirel H., Project Supported by Higher Education Institutions, Zaman ve Mekanın İncelenmesi: Ulaştırma ve Çevre Etkileşimi, 2008 - 2018

Demirel H., Project Supported by Higher Education Institutions, Ulaştırma altyapılarının hava kalitesi üzerindeki etkilerinin araştırılması için yeni bir yaklaşım, 2005 - 2018

Demirel H., H2020 Project, Impacts of Climate Change on transport a focus on road and rail transport infrastructures, 2012 - 2014

Citations

Total Citations (WOS):64

h-index (WOS):4