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Personal Information

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International Researcher IDs

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Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Jeodezi Ve Coğrafi Bilgi Teknolojileri Eabd, Turkey 2004 - 2011

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Jeodezi Ve Coğrafi Bilgi Teknolojileri Eabd, Turkey 2000 - 2003

Undergraduate, Gazi University, Mimarlık Fakültesi, Şehir Ve Bölge Planlama, Turkey 1993 - 1999

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, GIS-based stochastic modeling of physical accessibility by using floating car data and Monte Carlo simulations, Middle East Technical University, 2011

Postgraduate, Measurement and evaluation of fire service accessibility by using GIS: A case study on Çankaya district, Ankara, Middle East Technical University, 2003

Research Areas

Architecture, City and Regional Planning, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Konya Technical University, Faculty Of Architecture, Department Of City And Regional Planning, 2018 - 2020

Assistant Professor, Selcuk University, Faculty Of Architecture, Department Of City And Regional Planning, 2016 - 2018

Research Assistant, Selcuk University, Faculty Of Architecture, Department Of City And Regional Planning, 2012 - 2016

Research Assistant, Middle East Technical University, 2002 - 2012

Research Assistant, University of California, Berkeley, 2009 - 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Understanding Accessibility: Accessibility Modeling With Geographical Information Systems (GIS)**
Ertugay K, Duzgun S. H.
INTELLIGENT TRANSPORTATION AND PLANNING: BREAKTHROUGHS IN RESEARCH AND PRACTICE, pp.576-608, 2018 (SCI-Expanded)
- II. **Accessibility modeling in earthquake case considering road closure probabilities: A case study of health and shelter service accessibility in Thessaloniki, Greece**
Ertugay K, Argyroudou S., Duzgun H. S.
INTERNATIONAL JOURNAL OF DISASTER RISK REDUCTION, vol.17, pp.49-66, 2016 (SCI-Expanded)
- III. **Exploratory and inferential methods for spatio-temporal analysis of residential fire clustering in urban areas**
Ceyhan E., Ertugay K., Duzgun S.
FIRE SAFETY JOURNAL, vol.58, pp.226-239, 2013 (SCI-Expanded)
- IV. **An integrated earthquake vulnerability assessment framework for urban areas**
Duzgun H. S. B., YÜCEMEN M. S., KALAYCIOĞLU H. S., Celik K., Kemec S., Ertugay K., DENİZ A.
NATURAL HAZARDS, vol.59, no.2, pp.917-947, 2011 (SCI-Expanded)
- V. **GIS-based stochastic modeling of physical accessibility using GPS-based floating car data and Monte Carlo simulation**
Ertugay K., Duzgun S.
INTERNATIONAL JOURNAL OF GEOGRAPHICAL INFORMATION SCIENCE, vol.25, no.9, pp.1491-1506, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **Integration of GPS Based Floating Car Data into GIS Based Transportation Networks: Antalya Ring Road Example**
Aksoy E., ERTUĞAY K., KEPENEK E.
GAZI UNIVERSITY JOURNAL OF SCIENCE, 2025 (ESCI)
- II. **A Comparative Evaluation of Multi-Criteria Decision Analysis Techniques for Selecting the Appropriate Vector Management Strategy in the Northern Zone of Plateau State, Nigeria**
Nimlang N. H., Gilles D., Bayle S., ERTUĞAY K., Janaqi S.
American Journal of Multidisciplinary Research and Innovation, vol.3, 2024 (Peer-Reviewed Journal)
- III. **Utilizing Nighttime Photos to Locate Attraction Zones at the Metropolitan Scale: An Analysis of Istanbul**
ÖZDARICI OK A., ERTUĞAY K.
Iconarp International Journal of Architecture and Planning, vol.10, no.2, pp.688-710, 2022 (ESCI)
- IV. **The Use of Geographic Information Systems in Preventing Illegal Excavations for the Destruction of Cultural Heritage**
ÇOLAK K., KEPENEK E., ERTUĞAY K., GENÇEL Z.
INTERNATIONAL JOURNAL OF ECOSYSTEMS AND ECOLOGY SCIENCE (IJEES), vol.12, no.4, pp.235-244, 2022 (ESCI)
- V. **THE USE OF GEOGRAPHIC INFORMATION SYSTEMS IN PREVENTING ILLEGAL EXCAVATIONS FOR THE DESTRUCTION OF CULTURAL HERITAGE**
ÇOLAK K., KEPENEK E., GENÇEL Z., ERTUĞAY K.
IJEES, vol.12, no.4, pp.235-244, 2022 (Peer-Reviewed Journal)
- VI. **AN URBAN DESIGN PROJECT IN GAZIANTEP, TURKEY ON AIR QUALITY:THE "CITY IN NATURE,**

NATURE IN CITY" CONCEPT

Biçkici A. H., Güvenç S., ERTUĞAY K.

Design Ideals Journal, vol.2, no.2, pp.52-60, 2020 (Peer-Reviewed Journal)

VII. A Simulation-Based Accessibility Modeling Approach to Evaluate Performance of Transportation Networks by using Directness Concept and GIS

Ertugay K.

ICONARP INTERNATIONAL JOURNAL OF ARCHITECTURE AND PLANNING, vol.7, no.2, pp.460-486, 2019 (ESCI)

VIII. Geographic Information Systems (GIS) Based Accessibility Modelling Approach in Micro Scale Considering Physically Disabled Users: Case Study of Mimar Muzaffer Campus, Selcuk University

Ertugay K.

ICONARP INTERNATIONAL JOURNAL OF ARCHITECTURE AND PLANNING, vol.6, pp.81-104, 2018 (ESCI)

IX. Geographic Information Systems (GIS) Based Accessibility Modeling Approach in Micro Scale Considering Physically Disabled Users: Case Study of Mimar Muzaffer Campus, Selcuk University

ERTUĞAY K.

ICONARP INTERNATIONAL JOURNAL OF ARCHITECTURE AND PLANNING, vol.6, 2018 (Peer-Reviewed Journal)

Books

I. Yeşil Alan Erişebilirliğinin 2 Aşamalı Etki Alanı Yöntemi (2SFCA) İle Modellenmesi: Gaziantep Kenti Alan Çalışması

ERTUĞAY K.

in: Gaziantep'te Kentsel ve Bölgesel Planlama Sorunları Üzerine Düşünceler, , Editor, Nobel Bilimsel, pp.29-45, 2023

II. ULAŞIM AĞLARININ KULLANIM YOĞUNLUĞU AÇISINDAN KRİTİK BÖLGELERİNİN CBS ORTAMINDA MODELLENMESİ: İSTANBUL KENTİ ALAN ÇALIŞMASI

ERTUĞAY K.

in: İstanbulda Büyük Ölçekli Kentsel Projeler ve Planlama Süreçleri, , Editor, Nobel Akademik Yayıncılık, Konya, pp.1, 2019

III. Balıkesir kent merkezi erişebilirliğinin doğrudanlık oranı analizi ile ölçümü ve değerlendirilmesi

ERTUĞAY K.

in: Balıkesir 18 Planlama Sorunu 18 Stratejik Çözüm, Prof.Dr.Rahmi ERDEM, Doç.Dr. Filiz ALKAN MEŞHUR,Yrd.Doç.Dr. Kıvanç ERTUĞAY, Yrd.Doç.Dr. Fatih EREN,Arş.Grv..Çiğdem FINDIKLAR, Editor, Nobel Akademik Yayıncılık, Konya, pp.1, 2017

IV. Understanding Accessibility: Accessibility Modeling With Geographical Information Systems (GIS)

ERTUĞAY K., DÜZGÜN H. Ş., ÜNAK P.

in: Using Decision Support Systems for Transportation Planning Efficiency, , Editor, IGI Global, pp.223-257, 2016

V. The role of geographic information systems/remote sensing in disaster management

Thomas D. S., ERTUĞAY K., KEMEÇ S.

in: Handbook of Disaster Research, , Editor, New York: Springer, pp.83-96, 2007

Papers Published in Refereed Scientific Meetings

I. Risk Management and Disaster Response in Health Sector: Spatiotemporel Predictive Modelling of Malaria Endemicity in the Northern Zone of Plateau State, Nigeria

Nimlang N. H., Gilles D., Bayle S., ERTUĞAY K., DÜZGÜN H. Ş.

Risks and Cyber Community Colloquium, Saclay- Palaiseau Paris, 2023, Paris, France, 15 May 2023

II. Application of Directness-Based Accessibility Measurement Approach to Urban Planning by Using GIS, A Case Study of Selcuk University Campus, Konya

ERTUĞAY K.

INTERNATIONAL SYMPOSIUM ON GIS APPLICATIONS IN GEOGRAPHY GEOSCIENCES, Çanakkale, Turkey, 18 - 21

October 2017

- III. **A new comparative approach to detect vital segments of transportation networks considering the quantity of demand and supply by using GIS**
ERTUĞAY K.
AESOP Annual Congress 17: Spaces of Dialog For Places Of Dignity, Lizbon, Portugal, 11 - 14 July 2017
- IV. **A GIS based accessibility modelling approach to evaluate performance of transportation networks**
ERTUĞAY K.
WMCAUS 2016 conference, World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium, Prag, Czech Republic, 13 - 17 June 2016
- V. **SPATIAL ACCESSIBILITY MODELING FOR URBAN AREAS UNDER SEISMIC RISK A CASE STUDY OF SHELTER SITES FOR THESSALONIKI**
ERTUĞAY K., DÜZGÜN H. Ş., ARGYROUDIS S., KHAZAI B.
In proceeding of: 9th International Conference on Geoinformation for Disaster Management, 2013, Vietnam, 9 - 11 December 2013, vol.1
- VI. **SOSYAL ZARAR GÖREBİLİRLİK ANALİZİ: SYNER-G YAKLAŞIMI**
DÜZGÜN H. Ş., ERTUĞAY K., KHAZAI B.
2. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı, Hatay, Turkey, 25 - 27 September 2013
- VII. **GIS Based Stochastic Modeling of Physical Accessibility**
ERTUĞAY K., DÜZGÜN H. Ş.
International Conference on Sustainable Urban Transport and Environment (2009), 24 - 26 July 2009, vol.1
- VIII. **Performance Evaluation of Building Detection and Digital Surface Model Extraction Algorithms: Outcomes of the PRRS 2008 Algorithm Performance Contest**
Aksoy S., Ozdemir B., Eckert S., Kayitakire F., Pesarasi M., Aytekin O., Borel C. C., Cech J., Christophe E., Duzgun S., et al.
5th IAPR Workshop on Pattern Recognition in Remote Sensing, Tama, Japan, 07 December 2008, pp.37-39
- IX. **Fiziksel Erişebilirlik Analizlerine Eğimin Etkisinin Küresel Konum Belirleme Sistemi İle Saptanması ODTÜ Yerleşkesi Bisiklet Erişebilirliği Örneği**
ERTUĞAY K., KEMEÇ S., KOÇ SAN D., ÖZDARICI OK A.
TMMOB Harita ve Kadastro Mühendisleri Odası Ulusal Coğrafi Bilgi Sistemleri Kongresi, KTÜ, Trabzon, Trabzon, Turkey, 30 October - 02 November 2007, vol.1
- X. **Emergency State Health Service Accessibility Visualization in a 3D City Environment**
KEMEÇ S., ERTUĞAY K., DÜZGÜN H. Ş.
ISPRS Joint Workshop, Visualization and Exploration of Geospatial Data, University of Applied Sciences, 27 - 29 June 2007, vol.1, pp.10
- XI. **Eskişehir Kenti Acil Durum Donatı Erişebilirliğinin CBSye Dayalı Modellenmesi**
ERTUĞAY K., DÜZGÜN H. Ş.
1. Uzaktan Algılama-CBS Çalıştay ve Paneli, İstanbul Teknik Üniversitesi, İstanbul, Turkey, 26 - 29 November 2006, vol.1
- XII. **Integrating physical accessibility of emergency establishments into earthquake risk assessment**
ERTUĞAY K., DÜZGÜN H. Ş.
ECI Conference: Geohazards - Technical, Economical and Social Risk Evaluation, Lillehammer, Norway, 18 - 21 June 2006, vol.1, pp.10
- XIII. **Measurement of Fire Service Accessibility by Using GIS A Case Study in Çankaya District Of Ankara**
ERTUĞAY K., IŞIK O.
Esri international User Conference, San Diego, USA., 9 - 13 August 2004, vol.1
- XIV. **Changes in Planning Education in Turkey and Europe**
Ercoşkun C., Ertuğay K., Gürer N., Gürel Üçer Z. A., Yalçiner Ercoşkun Ö., Yılmaz G.
5. Planlama Kongresi, İstanbul, Turkey, 7 - 09 November 2001

Metrics

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H-Index (Scopus): 5