

CURRICULUM VITAE
H. SEBNEM DUZGUN

PERSONAL DETAILS

DATE OF BIRTH : 15 September 1970
ADDRESS : ODTU Maden Müh. Böl. 06531
Ankara Turkey
Telephone: +90- 312-2102668
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COUNTRY OF RESIDENCE : Turkey



PRESENT POSITION

Prof. of Mining Engineering Department
Prof. of Geodetic and Geographic Information Technologies (GGIT)
Prof. of Informatics Institute
Prof. of Applied Mathematics Institute
Middle East Technical University (METU)

ACADEMIC QUALIFICATIONS

B.Sc. (Hons.), 1992
M.Sc., 1994
Ph.D., 2000

HIGHER EDUCATION

1987 - 1992 : *B.Sc. (Hons.) in Mining Engineering,*
Middle East Technical University, Ankara Turkey
Graduation rank 2nd among 52

1992 - 1994 : *M.Sc. in Mining Engineering,*
Middle East Technical University, Ankara Turkey
M.Sc. Thesis "Plane Failure Analysis of Rock Slopes: A Reliability Approach"

1994 - 2000 : *Ph. D. in Mining Engineering,*
Middle East Technical University, Ankara Turkey
Ph.D. Thesis "Reliability-Based Design of Rock Slopes"

1999 : *Diploma in Analysis and Management of Geological Risks CERG '99*
University of Geneva, Geneva, Switzerland
Thesis: "Landslide Risk Assessment by Decision Analytical Risk Assessment
Procedure for Dereköy Konya Türkiye"

EMPLOYEMENT

2010 - : *Professor in Mining Engineering Department*
Middle East Technical University, Ankara Turkey

2010 - : *Professor in Geodetic and Geographic Information Technologies*
Middle East Technical University, Ankara Turkey

2010 - : *Professor in Informatics Institute*
Middle East Technical University, Ankara Turkey

2010 - : *Professor in Institute of Applied Mathematics*
Middle East Technical University, Ankara Turkey

- 2006 - 2010** : *Associate Prof. in Mining Engineering Department*
Middle East Technical University, Ankara Turkey
- 2005 - 2010** : *Associate Prof. in Geodetic and Geographic Information Technologies (GGIT),*
Middle East Technical University, Ankara Turkey
- 2006-2008** : *Vice Chairperson of Mining Engineering Department,*
Middle East Technical University, Ankara Turkey
- 2006-2008** : *Head of Geodetic and Geographic Information Technologies (GGIT),*
Middle East Technical University, Ankara Turkey
- 2004-2005** : *Post Graduate Fellow, Norwegian Geotechnical Institute, International Centre for Geohazards, Oslo, Norway*
- 2001 - 2004** : *Lecturer in Geodetic and Geographic Information Technologies (GGIT),*
Middle East Technical University, Ankara Turkey
- 1998 - 1999** : *Visiting Scholar, Civil and Environmental Engineering Department,*
Massachusetts Institute of Technology, Cambridge, USA
- 1992 - 2001** : *Research Assistant in Mining Engineering Department,*
Middle East Technical University, Ankara Turkey

RESEARCH EXPERIENCE

A. Research related to geotechnical and mining engineering

- Oct. 2013-Oct. 2015** : Developing Indicator Based Sustainability Assessment Methodology For Integrated Open Cast Lignite Mining and Electricity Generation Plans in Afşin-Elbistan Basin Turkish Scientific and Technical Research Council -113M463). PI: Prof. H. Şebnem Düzgün
- Oct. 2011-March 2012** : *Analysis of Rock Falls and Protection Measures for Mardin Castle* (Kuzgun Bilişim PI: Assoc. Prof. Aydın Bilgin (Middle East Technical University)
Position held: Researcher
- Sept. 2011- Sept. 2013** : *Development of System Reliability Model for Walking Draglines for Optimized Maintenance and Productivity* (Turkish Scientific and Technical Research Council - 111M320). PI: Assoc. Prof. Dr. Nuray Demirel (Middle East Technical University)
Position held: Researcher
- Jan. 2011- Jan. 2012** : *Risk Analysis Based Evaluation of Engineering Solutions for Rock Falls* (Turkish Scientific and Technical Research Council -110M796). PI: Prof. Dr. H. Sebnem Duzgun
- Feb. 2010- Feb. 2011** : *Risk analysis based evaluation of engineering solutions for rock falls and slides* (Turkish Scientific and Technical Research Council -109 Y003, PI: Prof. Dr. H. Sebnem Duzgun
- June 2010- June 2011** : *Developing Effective and Sustainable Mine Closure and Reclamation Policies Through Research on Social, Economic, Cultural and Environmental Impacts of Changes Aroused due to Surface Coal Mining Activities* (METU Research Funding - 08-11-2010-R-14) PI: Assoc. Prof. Dr. Sibel Kalaycioglu

- June 2009- June 2010** : *Mine Closure Planning based on GIS and RS: Ovacik Abandoned Coal Mine Example* (METU Research Funding - 07.02.2009.07)
PI: Assoc. Prof. Dr. H. Sebnem Duzgun
- Oct 2008-July 2009** : *Research Opportunities in Extensional Dynamics for US Undergraduate and Graduate Geosciences Students in Western Turkey*, US National Science Foundation (NSF)-International Research Experiences for Students (IRES) program <http://www.geo.utexas.edu/nsfre/researchers.htm>.
PI: Assoc. Prof. Dr. Elizabeth Catlos Position held: Researcher
- Aug. 2004- Sept. 2005** : *Vulnerability and Risk Assessment for Landslides and Earthquakes* (Norwegian Geotechnical Institute & International Centre for Geohazards) PI: Dr. Suzanne Lacasse Position held: Researcher
- March 2004- Dec. 2006** : *Development of a Methodology for Discontinuity Characterization with the Combined Use of Remote Sensing and Ground Penetrating Radar* (Turkish Scientific and Technical Research Council -103Y129). PI: Prof. Dr. Celal Karpuz (Middle East Technical University)
Position held: Researcher
- May 2003- May 2004** : *Mapping of Rock Discontinuities Based on Remote Sensing and Geographic Information Systems* (METU Research Funding -2003-03-05-01).
PI: Prof. Dr. Celal Karpuz (Middle East Technical University)
Position held: Researcher
- May 2003- May 2004** : *Landslide Susceptibility Mapping of Akçakoca-Ereğli Area by Using Aerial Photograph and GIS Technology* (METU Research Funding -2003-09-01-01).
PI: Assoc.Prof. Tamer Topal (Middle East Technical University)
Position held: Researcher
- May 1999- Dec. 2001** : *The Development of Job-Safety, Risk Management and Insurance Technologies for Mining Industry*(State Planning Department-03-05-DPT.99K12054)
PI: Prof. Celal Karpuz (Middle East Technical University)
Position held: Researcher
- Jan. 1996- Jan. 1997** : *Analysis of Control Criteria for Truck Dispatching in Open Pit Mines* (METU Research Funding -96-03-05-02)
PI: Prof. Gunhan Pasamehmetoglu (Middle East Technical University)
Position held: Researcher
- Jan. 1995 - Jan. 1996** : *Environmental Management in the Minerals Industry (ENVIRO-MIN I)*
PI: Prof. Sevket Durucan (Imperial College, UK)
Project Partners: UK, Ireland, Turkey and Egypt
Position held: Researcher

B. Research related to Interdisciplinary Studies

- Dec. 2012- June 2015** : *Image Enhancements and Object Classification for Hyperspectral Images*, HİGİN, (Ministry of Industry and Trade Funding 1588.STZ.2012-2) PI:Prof. Dr. Yasemin Yardımcı Position held: Researcher
- Nov. 2013-Nov. 2016** : *Assessment, Strategy And Risk Reduction for Tsunamis in Europe* European Union 7th Framework Program Integrated Project Funding, PI for TR: Prof. Dr. Ahmet Cevdet Yalçınır Position held: Researcher
- Sept. 2013-Sept. 2014** : *Evaluation of Diffuse Pollution and Control Methods Due to Agricultural Activities Based on SWAT Model* (Turkish Scientific and Technical Research Council - 111Y284). PI: Assoc. Prof. Dr. Emre Alp (Middle East Technical University)
Position held: Researcher
- Jan. 2012-Jan. 2014** : *CO2 Transportation Risk Assessment For Carbon Capture And Storage-CO2TRACCS* (EU Funding from BLACK SEA ERA.NET - Pilot Joint Call

- Networking on Science and Technology in the Black Sea Region) PI: Prof. Dr. Semih Yüccemen, Position held: Researcher
- Mar. 2012-Mar. 2014** : Exploiting Earth Observation in Sustainable Urban Planning & Management – GEOURBAN (EU Funding from ERA.Net RUS, Linking Russia to the ERA: Coordination of MS/AC S&T programmes towards and with Russia) PI: Prof. Dr. H. Sebnem Duzgun
- May 2009-May 2010** : Determination of Element at Risk for Landslide Risk Assessment based on Remote Sensing and Geographic Information Technologies, (Turkish Scientific and Technical Research Council -09Y003). PI: Prof. Dr. H. Sebnem Duzgun
- June 2010- Mar. 2014** : Development of Automatic Target Detection Algorithms (Undersecretariat of Defense Industries), PI: Prof. Dr. Aydın Alatan (Middle East Technical University), Position held: Researcher
- May 2010-May 2011** : Lifelong Learning Strategy for Information Technologies (IT) in Çankırı and Sinop. (EU Funding by CFCU-LLL118), PI: Prof. Dr. Şebnem Düzgün
- Apr. 2010 – Apr. 2012** : Development of mine closure and reclamation policies for surface coal mines by investigating social, economical, cultural and environmental impacts. (METU Research Funding- BAP- 08-11-2010-R-14), PI: Assoc. Prof. Dr. Sibel Kalaycıoğlu (Middle East Technical University), Position held: Researcher
- Nov. 2009 – Nov. 2012** : Systemic Seismic Vulnerability and Risk Analysis for Buildings, Lifeline Networks and Infrastructures Safety Gain European Union 7th Framework Program Integrated Project Funding, PI for TR: Prof. Dr. Polat Gülkan Position held: Researcher
- Dec. 2009 – Dec. 2011** : Solar Energy Investment Optimization Tool (Ministry of Industry and Trade Funding 00519STZ2009.2 PI: Prof. Dr. H. Sebnem Duzgun
- Apr. 2009- Apr. 2010** : Remote Sensing-Based Pollution Monitoring of Marine Protected Areas and Carrying Capacity Determination (METU Research Funding- BAP - 08.02.2009.08), PI: Prof. Dr. Ahmet Cevdet Yalciner (Middle East Technical University), Position held: Researcher
- Dec. 2008- Dec. 2009** : Developing Risk and Vulnerability Methodology for Landslides based on Remote Sensing and Geographic Information Technologies on Regional and Local Scale (Turkish Scientific and Technical Research Council -109 Y003, PI: PI Prof. Dr. H. Sebnem Duzgun
- June-Sep. 2008** : *3D Site Modeling from Satellite Imagery*, Turkish Scientific and Technical Council, Defense Industries Research and Development Institute Project.
Director: Prof. Dr. H. Şebnem Düzgün
- Jan. – June 2009** : *Development of GIS-Based Package Waste Collection System*, METU Technopolis Project for Ikaş Software Company.
Director: Prof. Dr. H. Şebnem Düzgün
- Sep. 2008 – July 2009** : *Developing GIS for Biodiversity Data for Fethiye Göcek Special Environmental Protection Zone*, Project for Derinsu Underwater Engineering and Consultancy Company.
Director: Prof. Dr. H. Şebnem Düzgün
- June 2009- June 2010** : *Mine Closure Planning based on GIS and RS: Ovacik Abandoned Coal Mine Example* (BAP - 07.02.2009.07)
Director: Prof. Dr. H. Sebnem Duzgun
- June 2009- June 2010** : *Satellite Imagery Based Contamination Monitoring and Load Carrying Capacity Determination for Marine Conservation Sites* (BAP - 08.02.2009.08)
Director: Prof. Dr. Ahmet Cevdet Yalciner

- Dec. 2007 – Dec. 2009** : *Web-Based Geospatial Image Streaming Software (IMIGI)* (Ministry of Industry and Trade Funding 00162.STZ.2007-II) PI: Prof. Dr. H. Sebnem Duzgun
- 2006- 2009** : *DESIRE EU Project of FP6 Desertification Mitigation and Remediation of Land* European Union 6th Framework Program Integrated Project Funding PI for TR: Assoc. Prof. Dr. Faruk Ocakoglu, Position held: Researcher
- 2006- 2009** : *TRANSFER-EU Project of FP6 Tsunami Risk Assessment and Strategies for European Region.* European Union 6th Framework Program Integrated Project Funding, PI for TR: Assoc. Prof. Dr. Ahmet Cevdet Yalciner Position held: Researcher
- March 2006 – Dec. 2008:** *Development of Urban Crime Prediction Models and Crime Reduction Policies Based on Spatial Analyses,* (State Planning Department-07-02-DPT.2003(06)K120920-21). PI: Prof. Dr. H. Sebnem Duzgun
- April –Dec. 2007** : *Determination of Carrying Capacity of Fethiye Göcek Special Environmental Protection Zone Marina* (Ministry of Environment Spatial Protection Zones Division, 07-0303-2-0203) PI: Assoc. Prof. Dr. Ahmet Cevdet Yalciner Position held: Researcher
- July 2004 –June 2006** : *Evaluation of local, regional, national and international interactions in the development of Southeast Anatolian Project* (METU Research Funding-2005(R)08-11-02), PI: Assoc. Dr. Sibel Kalaycıoğlu (Middle East Technical University) , Position held: Researcher
- July 2004- June 2006** : *An Integrated Disaster Risk Assessment for Urban Areas for Sustainable Development: Earthquake Case* (METU Research Funding -2005(R)08-11-02). PI: Prof. Dr. H. Sebnem Duzgun

PROFESSIONAL CONSULTANCY

A. Consultancy related to geotechnical and mining engineering

- Jun. 2014 – Mar. 2015** : *Rockfall analysis for Oman Khasab Tibat Coastal Road,* STFA Construction Company
- Oct. 2013-July 2014** : *Stability analysis of landslides in in the Cayeli Bakır İşletmeleri Cupper Mine Site with special emphasis on determination of critical triggering values to be used in the design of early warning systems,* ÇBİ
- Oct. 2012-Oct 2013** : *Rock fall stability analysis of Mardin Castle.* Okyanus Construction company
- Mar. 2012-Apr. 2012** : *Investigation of Environmental Impacts of Esenköy Quarry in Zonguldak in Terms of Mine closure and Reclamation,* Turyapı Construction Company
- Apr. 2012-Oct. 2012** : *Geotechnical Investigation of Agildere Tailings of Bandırma Borax Factory,* Eti Maden
- June 2012-Dec. 2012** : *Investigation of ground movements in the Cayeli Bakır İşletmeleri Cupper Mine Site,* INMET-CBI
- Apr. 2012-June 2012** : *Slope stability evaluation of Eti Maden Bigadic Borax Open Pit Mine,* Eti Maden
- Oct. 2011- Mar. 2012** : *Evaluation of rock fall risks and design recommendations for rock fall protection measures of Mardin Castle,* Nuran Demirtaş Restoration Company
- Oct 2008-Apr. 2009** : *Optimization of Transportation Cost of Coal,* Turkish Coal Enterprises
- Sep 2007- Jan 2008** : *Valuation of Tufanbeyli Lignite Basin,* Turkish Coal Enterprises

Jan 2006- Dec 2007 : *Design of Open Pit Slopes and Dragline Operation System for Orhaneli Open Pit Coal Mine, Turkish Coal Enterprises*

B. Consultancy related to geographical information systems and remote sensing

May. 2014- June 2015 : Hyperspectral image analysis , Havelsan

Oct. 2012-Jun. 2014 : *3D Modeling from Remote Sensing Images.* Havelsan

Oct. 2011-Jun. 2014 : *Automatic target detection project.* Havelsan

Jun. 2011-Dec. 2011 : *Analysis of GIS needs of Regional Development Agencies.* The Ministry of Development

Dec. 2009 – Jan. 2010 : *Analysis of GIS - Based Infrastructure of the Ministry of Public Works and Settlement and future road map for the Ministry.* The Ministry of Public Works and Settlement.

June 2009 – Oct. 2009 : *Upgrading the Statistical system of Turkey for Environmental Statistics.* Turkish Statistical Institute.

June 2009- June 2010 : *Developing GIS-Based Analytical Methods for Accident Analysis.* General Directorate of Security, Road Safety Investigation Department

Sep. 2008 – July 2009 : *Developing GIS for Biodiversity Data for Fethiye Göcek Special Environmental Protection Zone,* Project for Derinsu Underwater Engineering and Consultancy Company.

HONORS & AWARDS:

1988-1992 : High Honors (3 times) Honors (4 times)

1996 : *NATO Advanced Study Institute Grant*
For participating in "Algorithms for Sparse Large Scale Linear Algebraic Systems: State of the Art and Applications in Science and Engineering", Las Palmas De Gran Canaria, Canary Islands, Spain

1997 : *NATO Advanced Study Institute Grant*
For participating in "Formation and Evolution of Solids in Space ", Erice, Italy

1998 : *NATO-AI Scholarship*
Turkish Scientific and Technical Council

2005 - 2014 : *Academic Performance Award* (uninterrupted, every year)
Middle East Technical University

2014 : Alexander von Humboldt Foundation Georg Forster Experienced Researcher Fellowship to perform research at Karlsruhe Institute of Technology, Germany

COURSES THOUGHT

- MinE425 Mine Closure and Reclamation
- MinE416 Mine Design
- MinE317 Introduction to Rock Mechanics
- Mine 332 Mine System Analysis
- GGIT532 GIS and RS in Disaster Management
- GGIT 537 Statistical Techniques in Geographical Analysis
- GGIT 538 Spatial Data Analysis

- GGIT 713 Spatial Data Mining
- IS 782 Principles of Geospatial Information Systems

THESES SUPERVISED

A. Thesis related to geotechnical and mining engineering

- 2014** : M.Sc. Thesis, Pozhhan Mokhtari, "Stability Investigation of ETI Borax Mine Hisarçık Tailing Dam Using Finite Element Analysis" Mining Engineering Department, Middle East Technical University, Ankara, Turkey.
- 2013** : M.Sc. Thesis, Hilal Soydan, "Soil Contamination Mapping for an Abandoned Coal Mine Site by Using Worldview 2 and Aster Imagery " Mining Engineering Department, Middle East Technical University, Ankara, Turkey.
- 2012** : M.Sc. Thesis, Esra Nur Tanrıseven, "Stability Investigation of Eti Copper Mine Tailings Dam Using Finite Element Analysis" Mining Engineering Department, Middle East Technical University, Ankara, Turkey.
- 2012** : M.Sc. Thesis, Sohrab Gheibie, "Probabilistic Numerical Modeling of a Rock Slope in Amasya" Mining Engineering Department, Middle East Technical University, Ankara, Turkey.
- 2010** : M.Sc. Thesis, M. Kemal Emil, "Land Degradation Assessment for an Abandoned Coal Mine with Geospatial Information Technologies" Mining Engineering Department, Middle East Technical University, Ankara, Turkey.
- 2009** : P.h.d. Thesis, Nurcihan Ceryan "Rock Slope Stability Analysis by Probability Method and Excavability in Taşönü Limestone Quarry (Trabzon), Mining Eng. Dept., Blacksea Technical University, Trabzon, Turkey.
- 2008** : P.h.d. Thesis, Arman Kocal "Three Dimensional Numerical Modeling of Discontinuous Rocks by Using Distinct Element Method", Mining Eng. Dept., Middle East Technical University, Ankara, Turkey.
- 2007** : M.Sc. Thesis, Mohamed Fadlelmula "Probabilistic Modeling of Failure in Rock Slopes", Mining engineering Department, Middle East Technical University, Ankara, Turkey
- 2004** : M.Sc. Thesis, "A Methodology for Detection and Evaluation of Lineaments from Satellite Imagery", Mining Engineering Department, Middle East Technical University, Ankara, Turkey.
- 2004** : M.Sc. Thesis, "Effect of Discontinuity Roughness and Anisotropy on Shear Strength", Mining Engineering Department, Middle East Technical University, Ankara, Turkey.
- 2001** : M.Sc. Thesis, "Performance Evaluation of Face Equipment Transfer Systems in Cayirhan Mines", Mining Engineering Department, Middle East Technical University, Ankara, Turkey

A. Thesis related to interdisciplinary studies

- 2014** : P.h.d. Thesis, Berna Bakır Batu "Nonparametric Approaches for Discovering Triggering Events from Spatio-Temporal Patterns", Department of Information Systems, Middle East Technical University, Ankara, Turkey
- 2014** : P.h.d. Thesis, Firdes Yenilmez "Spatial Data Analyses for Monitoring and Prediction of Selected Water Quality Parameters in Reservoirs: Porsuk Dam Rezervoir Case", Environmental Eng. Dept., Middle East Technical University, Ankara, Turkey

- 2013** : P.hd. Thesis, Ipek Yavuzer “Crime Prevention Strategies for Turkish Cities through Spatial Crime Analysis: A Case Study of Keçiören”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey.
- 2013** : P.hd. Thesis, Abdur-Rahman Belek Ismaila “Investigation of Digital Elevation Model Uncertainty in GIS-Based Solar Radiation Models Using Markov Chain Monte Carlo Simulation”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey.
- 2013** : M.Sc. Thesis, Gizem Baybaş “Spatial Decision Support System for Archeological Application: A Case Study for Kaunos Archeological Site”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey.
- 2012** : M.Sc. Thesis, Sezgin Çiftçi “Risk Analysis Based on Spatial Analysis of Chronic Obstructive Pulmonary Disease (COPD) and Lung Cancer with Respect to Provinces in Turkey”, Actuarial Sciences, Middle East Technical University, Ankara, Turkey.
- 2012** : M.Sc. Thesis, Semra Yalçın “Modeling the Current and Future Ranges of Turkish Pine (*Pinus Brutia*) and Oriental Beech (*Fagus Orientalis*) in Turkey in the Face of Climate Change”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey.
- 2012** : P.hd. Thesis, Mohamed Mohieldin Fadlemula Fadlseed “Quantification and Analysis of Uncertainties in Reservoir Modeling Using Multiple-Point Geostatistics”, Department of Petroleum and Natural Gas Engineering, Middle East Technical University, Ankara, Turkey.
- 2012** : P.hd. Thesis, Gülcan Sarp “Identification of Morphometric Properties of Basins Located on Western Part of NAFZ”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey.
- 2011** : P.hd. Thesis, Volkan Kepoğlu “Development of Free/Libre and Open Source Spatial Data Analysis System Fully Coupled with Geographic Information System”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey.
- 2011** : P.hd. Thesis, Serkan Kemeç “A Conceptual Framework for 3D Urban Disaster Risk Visualization in Geo-Spatial Environment”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey.
- 2011** : P.hd. Thesis, Kıvanç Ertuğay “GIS-Based Stochastic Modeling of Physical Accessibility by Using Floating Car Data and Monte Carlo Simulation”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey.
- 2010** : M.Sc. Thesis, Saniye Keser “Investigation of the Spatial Relationship of Municipal Solid Waste Generation in Turkey with Socio-economic, Demographic and Climatic Factors”, Environmental Engineering Department, Middle East Technical University, Ankara, Turkey.
- 2010** : M.Sc. Thesis, Lutfi Oduncuoglu “Development of a GIS Software for Evaluating Network Reliability of Lifelines under Seismic Hazards”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey.
- 2010** : M.Sc. Thesis, Selim Onur Uşkay “Optimization and Cost Minimization in Route Planning Using Genetic Algorithms”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey.
- 2010** : M.Sc. Thesis, Emre Avcioglu “Hydrocarbon Microseepage Mapping via Remote Sensing For Gemrik Anticline, Bozova Oil Field, Adiyaman Turkey”, Geodetic and

- Geographic Information Technologies, Middle East Technical University, Ankara, Turkey.
- 2010** : M.Sc. Thesis, Erdem Türket Kıvıncı “Development of a Methodology for Geospatial Image Streaming”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey.
- 2009** : P.h.d. Thesis, Arzu Erener “An Approach for Landslide Risk Assessment by Using Geographic Information Systems (GIS) and Remote Sensing (RS)”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey.
- 2009** : M.Sc. Thesis, Şeyma Özcan Yavuzoğlu “An Evaluation of Clustering and Redistricting Models for Household Socio-Economic Indicators in Address-Based Population Register System”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey.
- 2009** : M.Sc. Thesis, Nazlı Yonca Aydın “GIS-Based Site Selection Approach for Wind and Solar Energy Systems: A Case Study from Western Turkey”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey
- 2007** : PhD. Thesis, Aygün Erdoğan “Exploring Crime in a Spatial and Temporal Context: Suitable Response Strategies for Urban Planning and Policing by the Case of Etlik Police Station Zone”, City and Regional Planning Dept., Middle East Technical University, Ankara, Turkey.
- 2007** : M.Sc. Thesis, Özge Ergin “Modeling Building Height Errors in 3D Urban Environments”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey
- 2007** : M.Sc. Thesis, Esra Polat “Spatio-Temporal Crime Prediction Model Based on Analysis of Crime Clusters”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey
- 2007** : M.Sc. Thesis, Emrah Söylemez “GIS-Based Search Theory Application For Search and Rescue Planning”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey
- 2007** : M.Sc. Thesis, Oya Yarkınoğlu Gücük “Modeling and Analyzing the Uncertainty Propagation in Vector-Based Network Structures in GIS”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey
- 2006** : M.Sc. Thesis, “Uncertainty Models for Vector Based Functional Curves and Assessing the reliability of G-band” Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey
- 2005** : M.Sc. Thesis, “Developing a Geographic Information System for the Gallipoli Campaign”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey.
- 2004** : M.Sc. Thesis, “Exploring Relationship Between Socio-Economic Structure and Some Topographic Parameters in Çankırı”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey.
- 2003** : M.Sc. Thesis, “Assessment of Social Vulnerability Using Geographic Information Systems: Pendik Istanbul Case Study”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey.
- 2003** : M.Sc. Thesis “A GIS-Based Spatial Analysis in Knidian Amphora Workshops in Resadiye”, Geodetic and Geographic Information Technologies, Middle East Technical University, Ankara, Turkey.

OTHER APPOINTMENTS

- Jan. - Oct. 1994** : *Organizing Committee Member*
3rd. International Symposium on Mine Planning and Equipment Selection, Istanbul/Turkey/18-23 October
- Sep. 04 - Nov. 05** : *Organizing Committee Member*
International workshop on spatial/spatio-temporal data mining (SDM) and learning, Ankara/Turkey/24-2 November 2005
- Jan. 04 -** : *Affiliated Academics*
Middle East Technical University, Applied Mathematics Institute, Ankara, Turkey
- Sep. 05 -** : *International Scientific Advisor*
International Center for Geohazards, Oslo, Norway
- Oct. 05 -** : *Researcher*
Middle East Technical University, Civil engineering, Earthquake Research Center Ankara, Turkey
- May 07 –** : *Evaluator and Reviewer*
EU 7th and Horizon 2020 Framework Programs, Security and ICT Projects
- July 07** : *Organizing Committee Member*
Geographic Information Management Stream, 22nd European Conference on Operations Research, Prague/Turkey/ 8-11 July 2007.

EDITORIAL BOARD MEMBERSHIPS

- Oct. 05-** : Georisk Journal, Taylor and Francis
- March 05- Oct. 2011** : International Journal of Coal Geology, Elsevier
- Dec. 08-** : Energy Exploration & Exploitation, Multi-Science Publishing
- Dec. 09-** : The Open Construction and Building Technology Journal, Bentham Science Publishers Ltd.

LIST OF PUBLICATIONS

Books

1. Düzgün H.S.B. and Demirel, N., 2011. "Remote Sensing of the Mine Environment", Taylor and Francis.
2. Söylemez, E. and Düzgün, H.S.B., 2009. "GIS for Air Search and Rescue: A Heuristic Method for Air Search and Rescue Operations", VDM-Verlag, Saarbrücken, Germany.
3. Düzgün, H.S.B., 2009. "Reliability-Based Rock Slope stability analysis", VDM-Verlag, Saarbrücken, Germany.
4. Kaygisiz, Ö., Düzgün, S., Akin, S., Celik, Y., 2012. "Trafik Kazalarının Mekânsal Analizi", Emniyet Genel Müdürlüğü, Trafik Araştırma Merkezi Müdürlüğü, Ankara.

Book Chapters

1. Khazai, B., Daniell, J. E., Düzgün, Ş., Kunz-Plapp, T., and Wenzel, F., 2014. "Framework for systemic socio-economic vulnerability and loss assessment". In SYNER-G: Systemic Seismic Vulnerability and Risk Assessment of Complex Urban, Utility, Lifeline Systems and Critical Facilities Springer Netherlands, pp. 89-130.
2. Fadlelmula, M.M., Akin, S. and Düzgün, S., 2014. "Parameterization of Channelized Training Images: A Novel Approach for Multiple-Point Simulations of Fluvial Reservoirs", Lecture Notes in Earth System Sciences, E. Pardo-Igúzquiza et al. (eds.), Mathematics of Planet Earth, 557, Springer-Verlag Berlin Heidelberg, DOI: 10.1007/978-3-642-32408-6_122.
3. Yılmaz, A., Kemec, S., Duzgun, H.S.B., Cakir, M.P., 2014. "Cognitive Aspects of Geovisualisation: A Case Study of Active and Passive Exploration in a Virtual Environment", Thematic Cartography for the Society, Bandrova, T., Konecny, M. and Zlatanova, S. (eds.), pp. 157-170.
4. Düzgün, H.S.B. and Polat E., 2011. "A Spatio-temporal Crime Prediction Model for Crime Prevention", Counter Terrorism in Diverse Communities, NATO Science for Peace and Security Series E: Human and Societal Dynamics Vol.90, Ekici S. (ed.), IOS Press:116-135.
5. Yaylacı, E., Belliismail, A., Uskay, O. Düzgün, H.S.B., 2011. "Spatial Analysis of Electricity Supply and Consumption of Turkey for Effective Energy Management and Policy-Making". In Implementing Environmental and Resource Management, Schmidt M., Onyango V., Palekhov D. (eds) Springer Verlag, Berlin-Heidelberg:153-166.
6. Kemec, S., Zlatanova, S. and Düzgün, H.S.B., 2010. "A Framework for Defining a 3D Model in Support of Risk Management" In Geographic Information and Cartography for Risk and Crisis Management, Konecny, M., Zlatanova, S., Temenoujka B.L., (eds.), Springer, New York pp. 69-82.
7. Düzgün, H.S.B. and Kemec, S., 2008. "Spatial regression and geographically weighted regression for spatial prediction", Encyclopedia of GIS, Shekhar, S. and Xiong, H. (eds.), Springer Reference, pp. 1073-1077.
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