

Assoc. Prof. NURGÜL GÜLTEKİN

Personal Information

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International Researcher IDs

ORCID: 0000-0002-7007-2478

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Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği A.B.D., Turkey 2006 - 2012

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği A.B.D., Turkey 2003 - 2006

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Jeoloji Mühendisliği Bölümü, Turkey 1999 - 2003

Research Areas

Geological Engineering, Applied Geology, Engineering Geology foundations, earthquakes, dams, reservoirs, Civil Engineering

Academic Titles / Tasks

Associate Professor, Hacettepe University, Başkent Osb Teknik Bilimler Myo, İnşaat Bölümü, 2024 - Continues

Assistant Professor, Hacettepe University, Başkent Osb Teknik Bilimler Myo, İnşaat Bölümü, 2019 - 2024

Assistant Professor, Aksaray University, FEN BİLİMLERİ ENSTİTÜSÜ, JEOLJİ MÜHENDİSLİĞİ BÖLÜMÜ, 2012 - 2015

Research Assistant, Hacettepe University, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği A.B.D., 2006 - 2012

Academic and Administrative Experience

Assistant Director of Vocational School, Hacettepe University, Polatlı Teknik Bilimler Meslek Yüksekokulu, 2023 - Continues

Head of Department, Hacettepe University, Başkent OSB Teknik Bilimler MYO, İnşaat Bölümü, 2023 - Continues

Courses

Undergraduate

Introduction to Geomorphology, Undergraduate, 2019 - 2020

Associate Degree

PROJECT STUDY and PRACTICE, Associate Degree, 2023 - 2024

GROUND IMPROVEMENT METHODS, Associate Degree, 2020 - 2021

DISASTER MANAGEMENT, Associate Degree, 2021 - 2022

SOIL MECHANICS I, Associate Degree, 2021 - 2022

FUNDAMENTALS OF DRILLING, Associate Degree, 2019 - 2020

Jury Memberships

Doctorate, Doctorate, Hacettepe Üniversitesi, May, 2024

Doctorate, Doctorate, Hacettepe Üniversitesi, January, 2021

Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, February, 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Estimation of the elastic modulus of basaltic rocks using machine learning methods**
Gültekin N., Doğan A.
EARTH SCIENCE INFORMATICS, vol.17, no.6, pp.5941-5966, 2024 (SCI-Expanded)
- II. **A Practical Group Symbol and Group Name Approach (PSNA) according to EN ISO 14688-2:2018**
Gültekin N.
APPLIED SCIENCES-BASEL, vol.13, no.21, pp.1-24, 2023 (SCI-Expanded)
- III. **A Comparison Among Some Non-linear Prediction Tools on Indirect Determination of Uniaxial Compressive Strength and Modulus of Elasticity of Basalt**
GÜLTEKİN N., GÖKÇEOĞLU C.
JOURNAL OF NONDESTRUCTIVE EVALUATION, vol.41, no.1, 2022 (SCI-Expanded)
- IV. **Performance prediction modeling of standard penetration blow count of clayey soils by two non-linear tools**
Yesiloglu-Gultekin N.
ARABIAN JOURNAL OF GEOSCIENCES, vol.14, no.3, 2021 (SCI-Expanded)
- V. **Reliability-Based Stability Analysis of Rock Slopes Using Numerical Analysis and Response Surface Method**
Dadashzadeh N., Duzgun H. S. B., Yesiloglu-Gultekin N.
ROCK MECHANICS AND ROCK ENGINEERING, vol.50, no.8, pp.2119-2133, 2017 (SCI-Expanded)
- VI. **Spatial distribution of coal quality parameters with respect to production requirements: an adaptive neuro-fuzzy application for the Can coal field (Turkey)**
KAYABAŞI A., TÜRER D., Yesiloglu-Gultekin N., GÖKÇEOĞLU C.
GEOCARTEO INTERNATIONAL, vol.31, no.2, pp.193-209, 2016 (SCI-Expanded)
- VII. **Use of non-linear prediction tools to assess rock mass permeability using various discontinuity parameters**
Kayabasi A., Yesiloglu-Gultekin N., GÖKÇEOĞLU C.
ENGINEERING GEOLOGY, vol.185, pp.1-9, 2015 (SCI-Expanded)
- VIII. **Prediction of uniaxial compressive strength of granitic rocks by various nonlinear tools and comparison of their performances**
Yesiloglu-Gultekin N., GÖKÇEOĞLU C., SEZER E.
INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, vol.62, pp.113-122, 2013 (SCI-Expanded)
- IX. **An application of adaptive neuro fuzzy inference system for estimating the uniaxial compressive strength of certain granitic rocks from their mineral contents**
Yesiloglu-Gultekin N., Sezer E. A., Gokceoglu C., Bayhan H.
EXPERT SYSTEMS WITH APPLICATIONS, vol.40, no.3, pp.921-928, 2013 (SCI-Expanded)
- X. **A computer program (TSecSoft) to determine mineral percentages using photographs obtained from thin sections**
YESILOGLU-GULTEKIN N., KEÇELİ A. S., SEZER E., CAN A. B., GÖKÇEOĞLU C., BAYHAN H.
COMPUTERS & GEOSCIENCES, vol.46, pp.310-316, 2012 (SCI-Expanded)

XI. Geohazard reconnaissance mapping for a settlement area

Yesiloglu-Gultekin N., Gokceoglu C., Sonmez H.

ENVIRONMENTAL EARTH SCIENCES, vol.66, no.6, pp.1653-1666, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **Determination of Individual Rock Block Volumes Using a Smartphone with LIDAR Sensor for a Rockfall Area**
Doğruluk M., Gültekin N.
JEOLOJİ MUHENDİSLİĞİ DERGİSİ, vol.48, no.1, pp.1-19, 2024 (Scopus)
- II. **Assessment of Ankara Zir Valley Rockfalls using Three Dimensional Analyses**
GULTEKİN N.
Yerbilimleri, vol.44, no.2, pp.179-201, 2023 (Scopus)
- III. **Evaluation of Uniaxial Compressive Strength of Basalts using Machine Learning Methods and Comparison of Their Performances**
Gültekin N., Doğan A.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.11, no.2, pp.1059-1074, 2023 (Peer-Reviewed Journal)
- IV. **Predicting net limit pressure and deformation modulus of cohesive soils using machine learning-based methods**
Gültekin N., Doğan A.
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.11, no.4, pp.1025-1033, 2022 (Peer-Reviewed Journal)
- V. **İnsansız Hava Aracından Elde Edilen Veriler ile Kaya Düşme Potansiyelinin Değerlendirilmesi: Adam Kayalar Örneği, Mersin**
AĞCA M., GÜLTEKİN N., KAYA E.
GEOMATİK, vol.5, no.2, pp.134-145, 2020 (ESCI)

Papers Published in Refereed Scientific Meetings

- I. **MONITORING ROCKFALL SURFACE CHANGE ON THE SLOPES OF ZIR VALLEY (ANKARA) USING UNMANNED AERIAL VEHICLE-DERIVED MULTI-TEMPORAL POINT CLOUDS**
Gültekin N., Doğruluk M.
AVRASYA 10TH INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Tbilisi, Georgia, 3 - 05 May 2024, pp.20
- II. **EVALUATION OF ROCKFALL POTENTIAL FOR ANKARA ZIR VALLEY SLOPES AND PROTECTION MEASURES**
GÜLTEKİN N.
VI.INTERNATIONAL HALICH CONGRESS ON MULTIDISCIPLINARY SCIENTIFIC RESEARCH, İstanbul, Turkey, 18 - 19 August 2023
- III. **ASSESSMENT OF EARTHQUAKE-INDUCED LIQUEFACTION FOR SEABED SOILS, MARMARA ISLAND, TURKEY**
GÜLTEKİN N.
ASES II. THE INTERNATIONAL SCIENTIFIC RESEARCH CONFERENCE, İzmir, Turkey, 1 - 02 October 2022
- IV. **ASSESSMENTS FOR THE PREDICTION OF PRESSUREMETER PARAMETERS OF CLAYEY AND SILTY SOILS USING DIFFERENT MACHINE LEARNING METHODS**
Gültekin N., Doğan A.
BİLTEK-VI INTERNATIONAL SYMPOSIUM ON CURRENT DEVELOPMENTS IN SCIENCE, TECHNOLOGY AND SOCIAL SCIENCES, 16 - 18 September 2022, pp.547-548
- V. **PHYSICAL MODEL EXPERIMENTS OF ORDU-GİRESUN AIRPORT, TURKEY**
ARIKAN Ş. E., GÜLTEKİN N., KÜÇÜKOSMANOĞLU A., ÖZBAHÇECİ B., SAĞ M., KILIÇ Y., KOCA F.

COASTAL ENGINEERING 2016, Antalya, Turkey, 17 - 20 November 2016

- VI. **Analysis of potential rockfalls for Sumela Monastery, Turkey**
Dadashzadeh N., DÜZGÜN H. Ş., GÜLTEKİN N.
2016 ISRM International Symposium (EUROCK 2016), Nevşehir, Turkey, 29 - 31 August 2016
- VII. **FARKLI AMAÇLA KULLANIMA AÇILAN ESKİ BİR TAŞ OCAĞINDA DURAYSIZLIK TEHLİKESİ DEĞERLENDİRMESİ**
SOYPAK R., KAYABAŞI A., GÜLTEKİN N.
68. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 6 - 10 April 2015
- VIII. **Fiziksel Modelleme Çalışmasına Bir Örnek: İlyasbey Balıkçı Barınağı Hasar Onarımı**
ARIKAN Ş. E., GÜLTEKİN N., EĞRİBOYUN O., KOCA F.
Türkiye Deniz Bilimleri Konferansı 2016, Ankara, Turkey, 31 May - 03 June 2016
- IX. **Comparison of Lumped Mass and Rigid Body Rockfall Simulation Models for the Mardin Castle, Turkey**
Dadashzadeh N., DÜZGÜN H. Ş., GÜLTEKİN N., BİLGİN H. A.
48th Annual US Rock Mechanics/Geomechanics Symposium (ARMA), Minneapolis, United States Of America, 1 - 04 June 2014
- X. **Analysis of potential rockfalls and protection measures for the Mardin castle, Turkey**
Dadashzadeh N., Aras C., Yesiloglu-Gultekin N., Bilgin A., Duzgun H. S. B.
ISRM European Symposium, Vigo, Spain, 26 - 29 May 2014, pp.1231-1236
- XI. **ANFIS modeling for estimation of uniaxial compressive strength of some granitic rocks from their mineral content**
GÜLTEKİN N., SEZER E., GÖKÇEOĞLU C., BAYHAN H.
FUZZYSS'2011: 2nd International Fuzzy Systems Symposium, Ankara, Turkey, 17 - 18 November 2011
- XII. **Use of nonlinear prediction tool to estimate uniaxial compressive strength and modulus of elasticity of some granitic rocks**
GÜLTEKİN N., SEZER E., GÖKÇEOĞLU C.
EGU General Assembly 2010, Viyana, Austria, 2 - 07 May 2010
- XIII. **An Experimental Study on the Min-Image Production for Determination of Mineral Percentages**
GÖKÇEOĞLU C., GÜLTEKİN N., KEÇELİ A. S., SEZER E., CAN A. B., BAYHAN H.
EGU General Assembly 2012, Viyana, Austria, 22 - 27 April 2012
- XIV. **Eğirdir (Isparta) Yerleşim Merkezi İçin Kaya Düşmesi Tehlikesinin Değerlendirilmesi ve Haritalanması**
GÜLTEKİN N., GÖKÇEOĞLU C., SÖNMEZ H.
ERDOĞAN YÜZER MÜHENDİSLİK JEOLJİSİ SEMPOZYUMU, İstanbul, Turkey, 6 - 07 September 2007
- XV. **Eğirdir (Isparta) Yerleşim Merkezi İçin Farklı Kütle Hareketlerinin Değerlendirilmesi ve Haritalanması**
GÜLTEKİN N., GÖKÇEOĞLU C., SÖNMEZ H.
60. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 16 - 22 April 2007
- XVI. **Heuristic geological hazard potential mapping of Egirdir (Isparta, SW Turkey) settlement area**
GÜLTEKİN N., GÖKÇEOĞLU C., SÖNMEZ H.
European Geosciences Union General Assembly 2006, Viyana, Austria, 2 - 07 April 2006

Memberships / Tasks in Scientific Organizations

TMMOB JEOLJİ MÜHENDİSLERİ ODASI , Member, 2013 - Continues, Turkey

Metrics

Publication: 32

Citation (WoS): 334

Citation (Scopus): 376

H-Index (WoS): 6

H-Index (Scopus): 6

Awards

Gültekin N., 2007 Erguvanlı Mühendislik Jeolojisi Ödülü (Yüksek Lisans Tez Ödülü), Uluslararası Mühendislik Jeolojisi Türk Milli Komitesi, June 2007

Gültekin N., Staj Raporu Yarışması İkincilik Ödülü, Tmmob Jeoloji Mühendisleri Odası, June 2003

Non Academic Experience

Ministry, ULAŞTIRMA VE ALTYAPI BAKANLIĞI, ALTYAPI YATIRIMLARI GENEL MÜDÜRLÜĞÜ, Dr. MÜHENDİS ULAŞTIRMA, DENİZCİLİK VE HABERLEŞME BAKANLIĞI, Dr. Mühendis

Ministry, ULAŞTIRMA VE ALTYAPI BAKANLIĞI, ALTYAPI YATIRIMLARI GENEL MÜDÜRLÜĞÜ, ŞUBE MÜDÜRÜ ULAŞTIRMA, DENİZCİLİK VE HABERLEŞME BAKANLIĞI, Şube Müdürü

ULAŞTIRMA, DENİZCİLİK VE HABERLEŞME BAKANLIĞI, Mühendis

University, Middle East Technical University, Department of Mining Engineering , Visiting Professor

University, University of Milano-Bicocca, Department of Geological Sciences and Technologies, Visiting Professor

Università degli Studi di Milano-Bicocca Dipartimento di Scienze Geologiche e Geotecnologie (Milano-Bicocco Üniversitesi Jeolojik Bilimler ve Jeoteknoloji Bölümü), Misafir öğretim üyesi