

# Prof. CANDAN GÖKÇEOĞLU

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## Education Information

Doctorate, Hacettepe University, Jeoloji Mühendisliği, Turkey 1993 - 1997

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Jeoloji (Hidrojeoloji), Turkey 1984 - 1989

## Foreign Languages

English, B2 Upper Intermediate

## Research Areas

Geological Engineering, Applied Geology, Engineering Geology foundations, earthquakes, dams, reservoirs, Engineering and Technology

## Academic Titles / Tasks

Professor, Hacettepe University, Mühendislik Fakültesi, Jeoloji Mühendisliği Bölümü, 2009 - Continues

Associate Professor, Hacettepe University, Mühendislik Fakültesi, Jeoloji Mühendisliği Bölümü, 2003 - 2009

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Jeoloji Mühendisliği Bölümü, 1998 - 2003

Research Assistant, Hacettepe University, Mühendislik Fakültesi, Jeoloji Mühendisliği Bölümü, 1989 - 1998

## Academic and Administrative Experience

Hacettepe Üniversitesi, Mühendislik Fakültesi, Jeoloji Mühendisliği Bölümü, 2012 - Continues

## Advising Theses

GÖKÇEOĞLU C., Kural tabanlı algoritma ile heyelan duyarlılık haritalaması (Beni Ahmed bölgesi, Rif dağları, Fas ),

Postgraduate, B.CEM(Student), 2017  
GÖKÇEOĞLU C., Manisa devlet hastanesi zemininin iyileştirilmesi ve iki farklı yöntemin performansının karşılaştırılması, Postgraduate, Y.BAŞKÖSE(Student), 2016  
TÜRER D., GÖKÇEOĞLU C., Kırka (Eskişehir) Bor İşletmesi'nin toprak ve sular üzerindeki çevresel etkilerinin incelenmesi, Doctorate, M.TANJU(Student), 2016  
GÖKÇEOĞLU C., Assessment of the slope stability of the deep road cuts excavated during the construction of the Anamur-Kaledran State Road, Postgraduate, K.TOKGÖZOĞLU(Student), 2014  
GÖKÇEOĞLU C., SEZER E., Granitik kayaların tek eksenli sıkışma dayanımı üzerinde mineralojik ve petrografik özelliklerin etkisinin incelenmesi, Doctorate, N.GÜLTEKİN(Student), 2011  
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GÖKÇEOĞLU C., SÖNMEZ H., Toprak akmalarına ilişkin tehlike haritalarının üretilmesi (Büyükköy su toplama havzası, Çayeli, Rize), Doctorate, H.AHMET(Student), 2008  
GÖKÇEOĞLU C., ULUSAY R., Barla-Besparmak-Kapı dağlarının kuzey yamaçlarındaki moloz oluşumunu etkileyen faktörlerin ve moloz akma koşullarının araştırılması, Doctorate, M.CELAL(Student), 2007  
GÖKÇEOĞLU C., SÖNMEZ H., Eğirdir (Isparta) yerleşim merkezi için heyelan olası tehlike değerlendirilmesi ve haritalaması, Postgraduate, N.YEŞİLOĞLU(Student), 2006  
GÖKÇEOĞLU C., Kangal (Sivas) linyit açık işletmesindeki toprak harmanlarının duraylılığını denetleyen faktörlerin araştırılması ve döküm şevlerinin tasarımı, Postgraduate, Ö.KAŞMER(Student), 2004

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Seismic performance of tunnels and verification of available seismic risk models for the 2023 Kahramanmaras, earthquakes**  
Apostolaki S., Karahan S., Riga E., Tsinidis G., GÖKÇEOĞLU C., Pitolakis K.  
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- II. **The Preface**  
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ENGINEERING GEOLOGY, 2024 (SCI-Expanded)
- III. **Hybrid ensemble paradigms for estimating tunnel boring machine penetration rate for the 10-km long Bahce-Nurdagi twin tunnels**  
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- IV. **Event-based regional model of liquefaction susceptibility in Amik, Go<spacing diaeresis>lbasi and Kahramanmaras,Basins after the February 6, 2023 Earthquakes**  
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- V. **Analysing slope dynamics of Kaleköy (Türkiye) dam reservoir with Sentinel-1 SAR time series and Sentinel-2 spectral indices**  
TAVUS B., KOCAMAN GÖKÇEOĞLU S., Nefeslioglu H. A., GÖKÇEOĞLU C.  
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- VI. **Impact of geohazards on cadastral data: an assessment after the 6 February 2023 Kahramanmaras earthquakes (Türkiye)**  
Yildiz U., GÖKÇEOĞLU C., KOCAMAN GÖKÇEOĞLU S.  
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- VII. **Analysis of landslide susceptibility and potential impacts on infrastructures and settlement areas (a case from the southeastern region of Türkiye)**  
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- X. **Analysis of landslide susceptibility prediction accuracy with an event-based inventory: The 6 February 2023 Türkiye earthquakes**  
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- XI. **Modeling Shallow Landslide Runout Distance in Eocene Flysch Facies Using Empirical-Statistical Models (Western Black Sea Region of Türkiye)**  
Komu M. P., Nefeslioglu H. A., GÖKÇEOĞLU C.  
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- XII. **Performance Comparison of Landslide Susceptibility Maps Derived from Logistic Regression and Random Forest Models in the Bolaman Basin, Türkiye**  
Kaya Topaçlı Z., Ozcan A. K., GÖKÇEOĞLU C.  
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- XIII. **Assessment of water pollution in a waste storage drainage area (a case study in Eskişehir, Türkiye)**  
KAYABAŞI A., TOYGAR SAĞIN Ö., GÖKÇEOĞLU C.  
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- XIV. **Letter to the editor on the paper entitled "Estimation of unconfined compressive strength of marine clay modified with recycled tiles using hybridized extreme gradient boosting method" by Li et al. (2023)**  
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- XV. **A Novel Approach for Assessing the Performance of Offshore Ground Improvement in Floating Storage and Regasification Unit (FSRU) Terminal Construction**  
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- forest: a case study after Elazig earthquake (24 Jan 2020, Mw 6.8), Turkey**  
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GÜLTEKİN N., GÖKÇEOĞLU C.  
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- XXIII. **An assessment on the correlations between uniaxial compression strength and point load index**  
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- XXVI. **Derivation of earthquake-induced landslide distribution using aerial photogrammetry: the January 24, 2020, Elazig (Turkey) earthquake**  
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- XXVII. **A Comprehensive Assessment of XGBoost Algorithm for Landslide Susceptibility Mapping in the Upper Basin of Ataturk Dam, Turkey**  
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- XXIX. **A special support design for a large-span tunnel crossing an active fault (T9 Tunnel, Ankara-Sivas High-Speed Railway Project, Turkey)**  
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- XXX. **A CitSci Approach for Rapid Earthquake Intensity Mapping: A Case Study from Istanbul (Turkey)**  
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- XXXII. **Use of Mamdani Fuzzy Algorithm for Multi-Hazard Susceptibility Assessment in a Developing Urban Settlement (Mamak, Ankara, Turkey)**  
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- XXXIII. **Evaluation of Floods and Landslides Triggered by a Meteorological Catastrophe (Ordu, Turkey, August 2018) Using Optical and Radar Data**  
KOCAMAN GÖKÇEOĞLU S., TAVUS B., Nefeslioglu H. A., KARAKAŞ G., GÖKÇEOĞLU C.  
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**mapping: the central part of the Rif Mountains (Morocco)**

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BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.79, no.1, pp.551-568, 2020 (SCI-Expanded)

- XXXV. **An Experimental Research on the Use of Recurrent Neural Networks in Landslide Susceptibility Mapping**  
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- XXXVI. **An Assessment on Permeability and Grout Take of Limestone: A Case Study at Mut Dam, Karaman, Turkey**  
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- XXXVII. **Landslide susceptibility mapping of the Mediterranean coastal zone of Morocco between Oued Laou and El Jebha using artificial neural networks (ANN)**  
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ARABIAN JOURNAL OF GEOSCIENCES, vol.12, no.22, 2019 (SCI-Expanded)
- XXXVIII. **A Novel Performance Assessment Approach Using Photogrammetric Techniques for Landslide Susceptibility Mapping with Logistic Regression, ANN and Random Forest**  
Sevgen E., Kocaman S., NEFESLİOĞLU H. A., GÖKÇEOĞLU C.  
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- XXXIX. **A Convolutional Neural Network Architecture for Auto-Detection of Landslide Photographs to Assess Citizen Science and Volunteered Geographic Information Data Quality**  
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- XL. **A low-cost approach for determination of discontinuity orientation using smartphone images and application to a part of Ihlara Valley (Central Turkey)**  
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- XLI. **A CitSci app for landslide data collection**  
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- XLIV. **Comment on "Comparative study of the deformation modulus of rock mass" by Panthee et al. (2018) in the Bulletin of Engineering Geology and the Environment**  
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- XLV. **Bayesian prediction of TBM penetration rate in rock mass**  
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- XLVI. **Safety assessment of limestone-based engineering structures to be partially flooded by dam water: A case study from northeastern Turkey**  
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- XLVII. **Modification of seed cell sampling strategy for landslide susceptibility mapping: an application from the Eastern part of the Gallipoli Peninsula (Canakkale, Turkey)**  
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- L. **Engineering geology - A fifty year perspective**  
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- LI. **A simple regression based approach to estimate deformation modulus of rock masses**  
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- LII. **Use of non-linear prediction tools to assess rock mass permeability using various discontinuity parameters**  
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- LIII. **Determination of coastal border line: an integrated approach for a part of Antalya coast (Turkey)**  
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- LIV. **An assessment on producing synthetic samples by fuzzy C-means for limited number of data in prediction models**  
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- LV. **Prediction of Earthquake Hazard by Hidden Markov Model (around Bilecik, NW Turkey)**  
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- LVI. **Prediction of uniaxial compressive strength of granitic rocks by various nonlinear tools and comparison of their performances**  
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- Pourghasemi H. R., Jirandeh A. G., Pradhan B., Xu C., GÖKÇEOĞLU C.  
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- LXII. **Preface for the special issue "FUZZYSS11: 2nd International Fuzzy Systems Symposium"**  
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- LXIII. **A comparative assessment of prediction capabilities of Dempster-Shafer and Weights-of-evidence models in landslide susceptibility mapping using GIS**  
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## **Supported Projects**

GÖKÇEOĞLU C., Project Supported by Higher Education Institutions, 17 Uluslararası Matematiksel Yerbilimleri Birliđi Yıllık Konferansı, 2015 - 2015

GÖKÇEOĞLU C., Project Supported by Other Private Institutions, Çayeli Bakır İşletmeleri Heyelanlarının İncelenmesi, 2013 - 2015

## **Metrics**

Publication: 170

Citation (WoS): 5765

Citation (Scopus): 5204

H-Index (WoS): 41

H-Index (Scopus): 39

## **Non Academic Experience**

Hacettepe Üniversitesi

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Sial Yerbilimleri Mühendislik Şirketi