

## Res. Asst. PhD Utku Köktan

### Personal Information

**Email:** utku.koktan@omu.edu.tr

**Web:** <https://avesis.omu.edu.tr/utku.koktan>

### International Researcher IDs

ScholarID: -Tqx9KMAAAAJ

ORCID: 0000-0002-8287-9586

Publons / Web Of Science ResearcherID: JSL-2810-2023

ScopusID: 58700791200

Yoksis Researcher ID: 268578

### Education Information

Doctorate, Ondokuz Mayıs University, Lisansüstü Eğitim Enstitüsü, İnşaat Mühendisliği Anabilim Dalı, Turkey 2018 - 2024

Postgraduate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (YI) (Tezli), Turkey 2015 - 2018

Undergraduate, Ondokuz Mayıs University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 2010 - 2014

### Dissertations

Postgraduate, İstinat duvarlarına deprem etkisinin incelenmesi, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (YI) (Tezli), 2018

### Research Areas

Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Ondokuz Mayıs University, Lisansüstü Eğitim Enstitüsü, İnşaat Mühendisliği Anabilim Dalı, 2016 - Continues

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

- Influence of Curing Time and Initial Moisture Content on Metakaolin-Based Geopolymer-Stabilized Soft Soil**  
Wassie T. A., Demir G., Köktan U.  
ADVANCES IN CIVIL ENGINEERING, vol.2023, 2023 (SCI-Expanded)

### Articles Published in Other Journals

- NumPy-based Calibration of Basic Hypoplastic Constitutive Models**

Ertek M. K., Demir G., Köktan U.

Civil Engineering Beyond Limits, vol.1, no.1, pp.12-16, 2020 (Peer-Reviewed Journal)

**II. Investigation of The Effect of Changes In Ground Water Level On The Seismic Behaviour of A Cantilever Retaining Wall**

KÖKTAN U., DEMİR G., ERTEK M. K.

Gümüşhane Üniversitesi Fen Bilimleri Dergisi, vol.9, no.2, pp.307-317, 2019 (Peer-Reviewed Journal)

## Books & Book Chapters

**I. İstinat Duvarları İçin Tasarım Yaklaşımlarının Gözden Geçirilmesi**

KÖKTAN U., ERTEK M. K., DEMİR G.

in: Çevre, Tasarım, İklim ve Enerji Araştırmaları, Akbaş Leyla, Editor, SRA Academic Publishing, pp.101-120, 2021

## Refereed Congress / Symposium Publications in Proceedings

**I. Numerical Investigation of the Effect of Rammed Aggregate Piers on Slope Stability**

Mohamed S. A., Demir G., Köktan U.

4th International Congress on Scientific Advances (ICONSAD'24), 25 - 28 December 2024, pp.53-61

**II. Organic Based Geotextile Production Proposal with Bitumen and Hemp**

KUMANDAŞ A., KÖKTAN U., KIRBAŞ U., DEMİR G., ŞİMŞEK A., ALIŞIR S.

3. International Civil Engineering and Architecture Congress (ICEARC'23), Trabzon, Turkey, 12 - 14 October 2023, vol.1, pp.825-834

**III. Determination of Dynamic Behavior of Cantilever Retaining Walls with Artificial Neural Network Model Optimized with Grey Wolf Algorithm**

Köktan U., Demir G.

3. International Civil Engineering and Architecture Congress (ICEARC'23), Trabzon, Turkey, 12 - 14 October 2023, pp.424-429

**IV. A Random Forest Model Optimized with Genetic Algorithm for Cantilever Retaining Walls**

KÖKTAN U., DEMİR G.

2. International Conference on Advances and Innovation in Engineering, Turkey, 21 - 23 September 2023, pp.294-298

**V. Numpy-Based Numerical Solution of Failure Surface of Basic Hypoplastic Models**

ERTEK M. K., DEMİR G., KÖKTAN U.

14th International Congress On Advances In Civil Engineering (ACE 2020-21), İstanbul, Turkey, 6 - 08 September 2021, vol.1, pp.516-522

**VI. Investigation of Modal Parameters of a One-Span Historical Masonry Arch Bridge**

ALPASLAN E., DİNÇ B., KARACA Z., BİRİNCİ F., KÖKTAN U.

4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, 11 - 13 October 2017

**VII. AN EXAMINATION OF THE EARTHQUAKE BEHAVIOUR OF A RETAINING WALL CONSIDERING SOIL-STRUCTURE INTERACTION**

KÖKTAN U., DEMİR G., ERTEK M. K.

European Geosciences Union General Assembly 2017, VİYANA, Austria, 23 - 28 April 2017, pp.4959

**VIII. Efficiency of jet grout columns and sand-recycled material mixtures for mitigating liquefaction damage**

ERTEK M. K., DEMİR G., KÖKTAN U.

European Geosciences Union General Assembly 2017, 23 - 28 April 2017, pp.18667

## Supported Projects

Kırbař U., Kktan U., Kumandař A., Demir G., Alıřır S., Őimřek A., Project Supported by Higher Education Institutions, Bitm Baęlayıcılı Atık Plastik ve Kenevir Katkılı Çok Amaçlı Geotekstil Malzeme retilmesi, 2022 - 2023  
Demir G., Kktan U., Project Supported by Higher Education Institutions, KONSOL İSTİNAT DUVARLARININ DİNAMİK DAVRANIŐININ YAPAY ZEKA YNTEMLERİYLE BELİRLENMESİ, 2021 - 2023