

Dr. Öğr. Üyesi OKAN İLHAN

Kişisel Bilgiler

İş Telefonu: [+90 312 906 2279](tel:+903129062279)

Web: <https://avesis.aybu.edu.tr/100315>

Uluslararası Araştırmacı ID'leri

ScholarID: oTLxtYkAAAAJ

ORCID: 0000-0003-1276-7930

Publons / Web Of Science ResearcherID: ABH-3780-2020

Yoksis Araştırmacı ID: 222118

Eğitim Bilgileri

Doktora, University of Illinois at Urbana-Champaign, The Grainger College of Engineering, Civil and Environmental Engineering, Amerika Birleşik Devletleri 2016 - 2020

Yüksek Lisans, Boğaziçi Üniversitesi, Kandilli Rasathanesi Ve Deprem Araştırma Enstitüsü, Deprem Mühendisliği Anabilim Dalı, Türkiye 2010 - 2015

Lisans, Dokuz Eylül Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Türkiye 2005 - 2010

Yaptığı Tezler

Doktora, Conventional and deep learning-based site amplification models for Central and Eastern North America, University of Illinois at Urbana-Champaign, Engineering Faculty, Civil and Environmental Engineering, 2020

Yüksek Lisans, MICROZONATION WITH RESPECT TO RAINFALL – INDUCED LANDSLIDES, Boğaziçi Üniversitesi, Kandilli Rasathanesi Ve Deprem Araştırma Enstitüsü, Deprem Mühendisliği Anabilim Dalı, 2015

Araştırma Alanları

Geoteknik, Zemin Dinamiği

Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Ankara Yıldırım Beyazıt Üniversitesi, Mühendislik ve Doğa Bilimleri Fakültesi, İnşaat Mühendisliği, 2021 - Devam Ediyor

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- Local site effects at the selected stations affected by the February 6 2023 Türkiye Earthquake Sequences**
İLHAN O., İndir O., MURATOĞLU G., İçen A., Albayrak K., SANDIKKAYA M. A., ASKAN GÜNDOĞAN A., Arduino P., Taciroğlu E.
Soil Dynamics and Earthquake Engineering, cilt.178, 2024 (SCI-Expanded)
- Simulated site amplification for Central and Eastern North America: Data set development and**

amplification models

İLHAN O., Hashash Y. M., Stewart J. P., Rathje E. M., Nikolaou S., Campbell K. W.
Earthquake Spectra, cilt.40, sa.1, ss.200-229, 2024 (SCI-Expanded)

- III. **Sediment thickness map of United States Atlantic and Gulf Coastal Plain Strata, and their influence on earthquake ground motions**
Boyd O. S., Churchwell D., Moschetti M. P., Thompson E. M., Chapman M. C., İLHAN O., Pratt T. L., Ahdi S. K., Rezaeian S.
Earthquake Spectra, cilt.40, sa.1, ss.89-112, 2024 (SCI-Expanded)
- IV. **Field reconnaissance and observations from the February 6, 2023, Turkey earthquake sequence**
Ozkula G., Dowell R. K., Baser T., Lin J., Numanoglu O. A., İLHAN O., Olgun C. G., Huang C., Uludag T. D.
Natural Hazards, cilt.119, sa.1, ss.663-700, 2023 (SCI-Expanded)
- V. **Simulation-based site amplification model for shallow bedrock sites in Korea**
Aaqib M., Park D., Adeel M. B., Hashash Y. M. A., İlhan O.
Earthquake Spectra, cilt.37, sa.3, ss.1900-1930, 2021 (SCI-Expanded)
- VI. **Application of empirical and simulation-based site amplification models for Central and Eastern North America to selected sites**
Hashash Y. M., İlhan O., Uysal H., Stewart J. P., Nikolaou S., Rathje E. M., Campbell K. W., Silva W. J.
Earthquake Spectra, cilt.37, sa.1_suppl, ss.1516-1533, 2021 (SCI-Expanded)
- VII. **Nonlinear site amplification model for ergodic seismic hazard analysis in Central and Eastern North America**
Hashash Y. M. A., İlhan O., Harmon J. A., Parker G. A., Stewart J. P., Rathje E. M., Campbell K. W., Silva W. J.
Earthquake Spectra, cilt.36, sa.1, ss.69-86, 2020 (SCI-Expanded)
- VIII. **Significance of site natural period effects for linear site amplification in central and eastern North America: Empirical and simulation-based models**
Hashash Y. M. A., İlhan O., Hassani B., Atkinson G. M., Harmon J., Shao H.
Earthquake Spectra, cilt.36, sa.1, ss.87-110, 2020 (SCI-Expanded)
- IX. **Site amplification functions for central and eastern North America – Part I: Simulation data set development**
Harmon J., Hashash Y. M., Stewart J. P., Rathje E. M., Campbell K. W., Silva W. J., Xu B., Musgrove M., İlhan O.
Earthquake Spectra, cilt.35, sa.2, ss.787-814, 2019 (SCI-Expanded)
- X. **Site amplification functions for central and eastern North America – Part II: Modular simulation-based models**
Harmon J., Hashash Y. M., Stewart J. P., Rathje E. M., Campbell K. W., Silva W. J., İlhan O.
Earthquake Spectra, cilt.35, sa.2, ss.815-847, 2019 (SCI-Expanded)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **İzmir Güney Sahili Zemin Büyütmesi ve Sıvılaşma Direncinin Zemin Tepki Analizleri ile Değerlendirilmesi**
İlhan O.
18. Ulusal Zemin Mekaniği ve Geoteknik Mühendisliği Konferansı, Kayseri, Türkiye, 29 - 30 Eylül 2022, ss.741-750
- II. **Simulation-based Site Amplification Factors for Medium Stiff-to-Stiff Sites in Southern Coast of İzmir City**
İlhan O., Zülfikar A. C.
3rd EUROPEAN CONFERENCE ON EARTHQUAKE ENGINEERING & SEISMOLOGY, Bucuresti, Romanya, 4 - 09 Eylül 2022, ss.2185-2192
- III. **The Development of VS Profile Database for Large-Scale Site Response Analyses: An Application to İzmir and Kocaeli**
Eroğlu K. N., İndir O., İlhan O.
6th Engineers of Future International Student Symposium, Zonguldak, Türkiye, 1 - 02 Temmuz 2022, ss.274-281

- IV. **Performance of NGA-East GMMs and Site Amplification Models Relative to CENA Ground Motions**
Ramos-Sepulveda M., Parker G., Li M., İLHAN O., Hashash Y., Rathje E., Stewart J.
12th National Conference on Earthquake Engineering, NCEE 2022, Utah, Amerika Birleşik Devletleri, 27 Haziran - 01 Temmuz 2022
- V. **Application of Deep Learning Technique for Site Amplification at Central and Eastern North America**
İlhan O., Hashash Y. M. A., Stewart J. P., Rathje E. M., Nikolaou S.
The 6th IASPEI / IAEE International Symposium: Effects of Surface Geology on Seismic Motion, Kyoto, Japonya, 30 Ağustos - 01 Eylül 2021
- VI. **Deep learning-based site amplification models for central and eastern north America**
İlhan O., Harmon J. A., Numanoğlu Ö. A., Hashash Y. M. A.
International Conference on Earthquake Geotechnical Engineering, Rome, İtalya, 17 - 20 Haziran 2019, ss.2980-2987
- VII. **Development of a United States Community Shear Wave Velocity Profile Database**
Ahdi S. K., Sadiq S., İlhan O., Bozorgnia Y., Hashash Y. M. A., Kwak D. Y., Park D., Yong A., Stewart J. P.
5th Geotechnical Earthquake Engineering and Soil Dynamics Conference: Seismic Hazard Analysis, Earthquake Ground Motions, and Regional-Scale Assessment, GEESDV 2018, Texas, Amerika Birleşik Devletleri, 10 - 13 Haziran 2018, cilt.2018-June, ss.330-339
- VIII. **Modelling of Site Amplification via Large Scale Nonlinear Simulations with Applications to North America**
Hashash Y. M. A., Harmon J., İlhan O., Stewart J. P., Rathje E. M., Campbell K. W., Silva W. J., Goulet C. A.
5th Geotechnical Earthquake Engineering and Soil Dynamics Conference: Seismic Hazard Analysis, Earthquake Ground Motions, and Regional-Scale Assessment, GEESDV 2018, Texas, Amerika Birleşik Devletleri, 10 - 13 Haziran 2018, cilt.2018-June, ss.523-537
- IX. **Yağmur Suyunun Yamaç Stabilesine Etkisinin Belirlenmesi Üzerine Bir Yaklaşım**
İlhan O., Tönük G., Ansal M. A.
Zemin Mekanigi ve Temel Muhendisligi 15. Ulusal Kongresi, Ankara, Türkiye, 16 - 17 Ekim 2014, ss.505-514
- X. **Real-Time Earthquake Damage Assessment of Buried Gas Pipelines**
İlhan O., Zülfikar A. C.
Second European Conference on Earthquake Engineering and Seismology, İstanbul, Türkiye, 25 - 29 Ağustos 2014, ss.4819-4830

Metrikler

Yayın: 20

Atf (Scopus): 94

H-İndeks (Scopus): 5