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Eğitim Bilgileri

Doktora, University of California, Davis, Civil And Environmental Engineering, Amerika Birleşik Devletleri 2004 - 2008
Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Türkiye 2002 - 2004
Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Türkiye 1998 - 2002

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Vector-Valued Probabilistic Seismic Hazard Assessment for the Effect of Near-Fault Vertical Ground Motions on the Seismic Response of Highway Bridges, University of California, Davis, 2008

Yüksek Lisans, 1999 Kocaeli Depreminde Sakarya İlinin Yapısal Performansının Geoteknik ve Deprem Mühendisliği Yönünden CBS Tabanlı İncelenmesi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2004

Araştırma Alanları

Deprem Sismolojisi, İnşaat Mühendisliği, Geoteknik, Zemin Dinamiği, Yapı, Deprem Mühendisliği, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2019 - Devam Ediyor

Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2014 - 2019

Yrd. Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2010 - 2014

Öğretim Görevlisi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2009 - 2010

Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2002 - 2004

Yönetilen Tezler

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- GÜLERCE Z., PROBABILISTIC METHODS FOR ESTIMATING THE SEISMIC DEFORMATIONS OF UNDERGROUND STRUCTURES, Yüksek Lisans, K.BUĞRA(Öğrenci), 2018
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- I. **Preface for the Focus Section on the 6 February 2023, Kahramanmaraş, Türkiye, Earthquakes**
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- II. **Summary of the Abrahamson and Gulerce NGA-SUB ground-motion model for subduction earthquakes**
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- III. **Geotechnical reconnaissance findings of the October 30 2020, Mw7.0 Samos Island (Aegean Sea) earthquake**
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- V. **The Samos Island (Aegean Sea) M7.0 earthquake: analysis and engineering implications of strong motion data**
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- VIII. **Predictive performance of current ground motion models for recorded strong motions in 2020 Samos Earthquake**
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- IX. **Geotechnical aspects of reconnaissance findings after 2020 January 24th, M6.8 Sivrice–Elazığ–Turkey earthquake**
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- X. **Fault-based probabilistic seismic hazard assessment of the eastern Makran subduction and the Chaman transform fault, Pakistan: Emphasis on the source characterization of megathrust**
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- XI. **Ground Motion Characterization for Vertical Ground Motions in Turkey—Part 2: Vertical Ground Motion Models and the Final Logic Tree**
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- XII. **Ground Motion Characterization for Vertical Ground Motions in Turkey—Part 1: V/H Ratio Ground Motion Models**
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- XIII. **Evaluation of the site amplification factors estimated by equivalent linear site response analysis using time series and random vibration theory based approaches**
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- XIV. **Experimental evaluation of geomembrane/geotextile interface as base isolating system**
Kalpakci V., Bonab A. T., ÖZKAN M. Y., GÜLERCE Z.
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- XV. **Planar seismic source characterization models developed for probabilistic seismic hazard assessment of Istanbul**
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- XVI. **Probabilistic Seismic-Hazard Assessment for East Anatolian Fault Zone Using Planar Fault Source Models**
GÜLERCE Z., SHAH S. T., MENEKŞE A., Ozacar A. A., Kaymakci N., ÇETİN K. Ö.
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- XVII. **BSHAP seismic source characterization models for the Western Balkan region**
MIHALJEVIĆ J., ZUPANČIĆ P., KUKA N., KALUDEROVIĆ N., KOČI R., MARKUŠIĆ S., ŠALIĆ R., DUSHI E., BEGU E., DUNI L., et al.
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- XVIII. **Probabilistic seismic hazard assessment for sliding displacement of slopes: an application in Turkey**
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- XX. **Reply to "Comment to BSHAP project strong ground motion database and selection of suitable ground motion models for the Western Balkan Region" by Carlo Cauzzi and Ezio Faccioli**
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- XXII. **Turkey-Adjusted NGA-W1 Horizontal Ground Motion Prediction Models**
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- XXIII. **An updated and unified earthquake catalogue for the Western Balkan Region**
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- XXIV. **Effect of Seismic Source Model Parameters on the Probabilistic Seismic-Hazard Assessment Results: A Case Study for the North Anatolian Fault Zone**
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- XXV. **Probabilistic seismic hazard assessment of Eastern Marmara Region**
GÜLERCE Z., Ocak S.
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- XXVI. **The NGA-W1 Vertical-to-Horizontal Spectral Acceleration Ratio Prediction Equations Adjusted for Turkey**
GÜLERCE Z., AKYÜZ E.
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- XXVII. **Using a performance-based earthquake engineering (PBEE) approach to estimate structural performance targets for bridges**
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- XXVIII. **Seismic demand models for probabilistic risk analysis of near fault vertical ground motion effects on ordinary highway bridges**
Gulerce Z., ERDURAN E., Kunnath S. K., Abrahamson N. A.

- EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, cilt.41, sa.2, ss.159-175, 2012 (SCI-Expanded)
- XXIX. **Site-Specific Design Spectra for Vertical Ground Motion**
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- XXX. **8 March 2010 Elazığ-Kovancilar (Turkey) Earthquake: Observations on Ground Motions and Building Damage**
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SEISMOLOGICAL RESEARCH LETTERS, cilt.82, sa.1, ss.42-58, 2011 (SCI-Expanded)
- XXXI. **Vector-Valued Probabilistic Seismic Hazard Assessment for the Effects of Vertical Ground Motions on the Seismic Response of Highway Bridges**
GÜLERCE Z., Abrahamson N. A.
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Kitap & Kitap Bölümleri

- I. **Geotechnical Reconnaissance Findings**
ÇETİN K. Ö., Ziotopoulou K., Mylonakis G., Klimis N., YILMAZ M. T., GÜLERCE Z., CAN G., ILGAÇ M., ÇAKIR E., SÖYLEMEZ B., et al.
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- II. **Probabilistic Seismic Hazard Assessment of Seismically Induced Landslide for Bakacak-Duzce Region**
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- I. **Applicability of Site Amplification Models for Hard Rock Site Conditions**
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- II. **Ege Denizi Kıyıları İçin Sismik Tsunami Tehlike Analizi: Olasılıksal Yaklaşım**
DOĞAN G. G., YALÇINER A. C., ÖZACAR A. A., GÜLERCE Z., TÜFEKÇİ ENGİNAR D., SÜZEN M. L., KARAKÜTÜK B., OKAY H. B., KANUN O., PEKCAN O., et al.
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- III. **Fault Based Tsunami Generation and Hazard Analysis: A Probabilistic Study for Aegean Coasts of Türkiye**
DOĞAN G. G., YALÇINER A. C., ÖZACAR A. A., GÜLERCE Z., TÜFEKÇİ ENGİNAR D., SÜZEN M. L., Kanun O., PEKCAN O., YÜCEMEN M. S.
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- IV. **A Case Study: Dynamic Analyses of Barrette Foundations under a Pipe Rack in a High Seismicity Region**
Akbaş B., Kanun O., Unutmaz B., Gülerce Z., Toker N. K.
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- V. **Estimation Of High-Frequency Attenuation Parameter (Kappa) For Hard Rock Stations Of Turkish Strong Motion Network**
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- VI. **Fault-based Probabilistic Seismic Hazard Assessment of the Makran Subduction Zone and the Chaman Transform Fault in Pakistan: Emphasis on the Effects of Source Characterization of Megathrust**
Shah S. T., ÖZACAR A. A., GÜLERCE Z.
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- VII. **Preliminary ground motion model for subduction earthquakes based on NGA-Sub Japan database**
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- VIII. **Seismic demand models for estimating the pseudo-static factor of safety for slope failure**
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- IX. **Harmonized Seismic Hazard Maps for the Western Balkan Countries**
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- X. **Empirical Prediction Models for the Seismic Response of Pile Foundations**
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- XI. **Developing site-specific vertical ground motions for Turkey Part 1: using V/H ratio ground motion models**
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- XII. **GÖKOVA FAY ZONU İÇİN DÜZLEMSEL SİSMİK KAYNAK MODELİ**
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- XIII. **Procedure for fault-based PSHA in complex tectonic regimes (eg Western Anatolia): Implications of activity rate characterization**
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- XV. **Use of Regional Strong Ground Motion Datasets for Selecting and Weighing Ground Motion Models for Probabilistic Seismic Hazard Assessment.**
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- XVI. **Kuzey Anadolu Fay Hattı Marmara Bölümü için Fay Bazlı Düzlemsel Sismik Kaynak Modeli ile Sismik Tehlike Analizi**
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- XVII. **Türkiye Kuvvetli Yer Hareketi Veri Tabanının Genişletilmesi: Bir Ön Çalışma**
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- XVIII. **Preliminary Estimation of Kappa Parameter in Croatia**
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- XIX. **Testing the Suitability of Global Ground Motion Models for the Western Balkan Region**
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- XX. **Selection of Ground Motion Prediction Equations for Probabilistic Seismic Hazard Assessments of the Izmit Bay Bridge**
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- XXI. **Estimating the Liquefaction Related Geotechnical Hazards in Probabilistic Seismic Hazard Assessment Framework**
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- XXIV. **Estimating the Earthquake Induced Landslide Hazard in Vector Valued Probabilistic Seismic Hazard Assessment Framework**
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- XXVI. **Kuzey Anadolu ve Doğu Anadolu Fay Zonu için Deprem Tekrarlanma Parametrelerinin Belirlenmesi**
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