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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Carnegie Mellon University, İnşaat Mühendisliği, Amerika Birleşik Devletleri 2002 - 2006

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Yapı Mekaniği Anabilim Dalı, Türkiye 2000 - 2002

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Türkiye 1996 - 2000

Yabancı Diller

İngilizce, C1 İleri

Araştırma Alanları

İnşaat Mühendisliği, Yapı, Deprem Mühendisliği, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2017 - Devam Ediyor

Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2011 - Devam Ediyor

Yrd.Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2009 - 2011

Öğretim Görevlisi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2007 - 2009

Akademik İdari Deneyim

Rektörlüğe Bağlı Komisyon Üyesi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2018 - Devam Ediyor

Enstitü Müdür Yardımcısı, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2018 - Devam Ediyor

Bölüm Başkanı, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Deprem Çalışmaları Anabilim Dalı, 2015 - Devam Ediyor

Verdiği Dersler

FINITE ELEMENT METHOD, Yüksek Lisans, 2018 - 2019

Yönetilen Tezler

- ASKAN GÜNDOĞAN A., Physics-based ground motion simulation of the 2020 Samos earthquake, Yüksek Lisans, Y.URHAN(Öğrenci), 2022
- ASKAN GÜNDOĞAN A., A preliminary prioritization framework of seismic safety for historical structures in Türkiye, Yüksek Lisans, C.TEMİZ(Öğrenci), 2022
- ASKAN GÜNDOĞAN A., COMPARISON OF GROUND MOTION SCALING METHODS BY CONSIDERING VERTICAL GROUND MOTIONS, Yüksek Lisans, U.ÖĞUZ(Öğrenci), 2022
- ASKAN GÜNDOĞAN A., Generic site amplification factors for Northwestern Türkiye and their use in ground motion simulations, Yüksek Lisans, G.MURATOĞLU(Öğrenci), 2022
- ASKAN GÜNDOĞAN A., Integrated vulnerability assessment platform (IVAP), Yüksek Lisans, A.SAADI(Öğrenci), 2022
- Erberik M. A., Askan Gündoğan A., Effect of vertical ground motion on the performance of high-rise buildings, Yüksek Lisans, E.KESKİN(Öğrenci), 2020
- Erberik M. A., Askan Gündoğan A., Seismic performance of masonry buildings subjected to synthetic ground motions, Yüksek Lisans, A.BAHADIR(Öğrenci), 2019
- Kentel Erdoğan E., Askan Gündoğan A., Prediction of felt intensity from ground motion parameters using artificial neural network method, Yüksek Lisans, S.İÇEL(Öğrenci), 2019
- ASKAN GÜNDOĞAN A., Ground motion prediction equations based on simulated ground motions, Yüksek Lisans, K.GÖZENER(Öğrenci), 2018
- ASKAN GÜNDOĞAN A., CANER A., Multi-support seismic excitation of long span highway bridges, Yüksek Lisans, T.GÖKDEMİR(Öğrenci), 2017
- ERBERİK M. A., ASKAN GÜNDOĞAN A., Derivation of site-specific uhs based on simulated ground motions and its parametric effects on building fragility, Doktora, A.AZARI(Öğrenci), 2016
- ASKAN GÜNDOĞAN A., Use of simulated strong ground motion records in earthquake engineering applications, Doktora, S.KARİMZADEH(Öğrenci), 2016
- KESTEL S. A., ASKAN GÜNDOĞAN A., Ground motion simulations based on regional input parameters and their impact on insurance premiums: Bursa case, Yüksek Lisans, B.ÜNAL(Öğrenci), 2015
- ASKAN GÜNDOĞAN A., 3 şubat 2002 Çay depreminin sayısal modellenmesi : kuvvetli yer hareketi simülasyonu ve eş şiddet eğrisi dağılımı, Yüksek Lisans, G.Can(Öğrenci), 2014
- ASKAN GÜNDOĞAN A., Comparison of mean site-specific response spectra in Turkey with the design spectra of AASHTO, Yüksek Lisans, G.MESTAV(Öğrenci), 2014
- ASKAN GÜNDOĞAN A., Numerical modeling of the 3 February 2002 Çay earthquake: Ground motion simulation and intensity distribution, Yüksek Lisans, G.CAN(Öğrenci), 2014
- ASKAN GÜNDOĞAN A., ERBERİK M. A., An approach for seismic damage assessment of residential buildings, Yüksek Lisans, C.DEMİRCİ(Öğrenci), 2014
- ASKAN GÜNDOĞAN A., Relationships between felt intensity and recorded ground motion parameters for Türkiye, Yüksek Lisans, M.BİLAL(Öğrenci), 2013
- ASKAN GÜNDOĞAN A., Türkiye için hissedilen şiddet ile ölçülen yer hareketi parametreleri arasındaki ilişki, Yüksek Lisans, M.Bilal(Öğrenci), 2013
- ASKAN GÜNDOĞAN A., ERBERİK M. A., An integrated seismic loss estimation methodology: A case study in Northwestern Türkiye, Yüksek Lisans, E.MÜGE(Öğrenci), 2011
- ASKAN GÜNDOĞAN A., Stochastic strong ground motion simulations on North Anatolian fault zone and Central Italy: Validation, limitation and sensitivity analyses, Yüksek Lisans, B.UĞURHAN(Öğrenci), 2010

Jüri Üyelikleri

Doçentlik Sınavı, Doçentlik Sınavı, Orta Doğu Teknik Üniversitesi, Mayıs, 2020

Doktora Tez İzleme Komitesi (TİK) Üyeliđi, Doktora Tez İzleme Komitesi (TİK) Üyeliđi, Orta Doğu Teknik Üniversitesi, Haziran, 2019

Akademik Kadroya Atama-Yardımcı Doçentlik, Akademik Kadroya Atama, Gebze Teknik Üniversitesi, Kasım, 2018

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Traditional seismic hazard analyses underestimate hazard levels when compared to observations from the 2023 Kahramanmaraş earthquakes**
Altındal A., ASKAN GÜNDOĞAN A.
Communications Earth and Environment, cilt.5, sa.1, 2024 (SCI-Expanded)
- II. **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., Tacirođlu E.
Soil Dynamics and Earthquake Engineering, cilt.178, 2024 (SCI-Expanded)
- III. **Fundamental period estimation of RC buildings by considering structural and non-structural damage distributions through neural network**
Cinar O. F., ALDEMİR A., Zervent A., Yucel O. B., ERBERİK M. A., ANIL Ö., ŞAHMARAN M., KOÇKAR M. K., ASKAN GÜNDOĞAN A.
Neural Computing and Applications, cilt.36, sa.3, ss.1329-1350, 2024 (SCI-Expanded)
- IV. **ANN-based ground motion model for Turkey using stochastic simulation of earthquakes**
Karimzadeh S., Mohammadi A., Sajad Hussaini S. M., Caicedo D., ASKAN GÜNDOĞAN A., Lourenço P. B.
Geophysical Journal International, cilt.236, sa.1, ss.413-429, 2024 (SCI-Expanded)
- V. **Blind study site assessment of shear-wave velocity at Kumamoto City, Japan, using direct-fitting SPAC methods**
Asten M., ASKAN GÜNDOĞAN A., Karimzadeh S.
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- VI. **Construction and validation of a simulated ground motion dataset for Turkey**
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Journal of Seismology, cilt.27, sa.6, ss.1047-1065, 2023 (SCI-Expanded)
- VII. **Site-specific seismic hazard analyses in the Izmit region (Marmara, Turkey) through passive seismic tests**
Altındal A., ASKAN GÜNDOĞAN A., Asten M., Sisman F. N., Karimzadeh S., BARIŞ Ş., ÇAKA D.
Bulletin of Earthquake Engineering, cilt.21, sa.12, ss.5403-5418, 2023 (SCI-Expanded)
- VIII. **The Sensitivity of Global Structural Parameters for Unreinforced Masonry Buildings Subjected to Simulated Ground Motions**
Koc A. B., ERBERİK M. A., ASKAN GÜNDOĞAN A., Karimzadeh S.
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- IX. **Comparison of machine learning tools for damage classification: the case of L'Aquila 2009 earthquake**
Di Michele F., Stagnini E., Pera D., Rubino B., Aloisio R., ASKAN GÜNDOĞAN A., Marcati P.
Natural Hazards, cilt.116, sa.3, ss.3521-3546, 2023 (SCI-Expanded)
- X. **Impact of local site effects on seismic risk assessment of reinforced concrete bridges**
Ozsarac V., Ricardo M., ASKAN GÜNDOĞAN A., Calvi G. M.
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, cilt.164, 2023 (SCI-Expanded)
- XI. **Predictive kappa (kappa) models for Turkey: Regional effects and uncertainty analysis**
Altındal A., ASKAN GÜNDOĞAN A.

- EARTHQUAKE SPECTRA, cilt.38, sa.4, ss.2479-2499, 2022 (SCI-Expanded)
- XII. **The role of site effects on elevated seismic demands and corollary structural damage during the October 30, 2020, M7.0 Samos Island (Aegean Sea) Earthquake**
Çetin K. Ö., Papadimitriou A. G., Altun S., Pelekis P., Unutmaz B., Rovithis E., Akgün M., Klimis N., Askan Gündoğan A., Ziotopoulou K., et al.
BULLETIN OF EARTHQUAKE ENGINEERING, cilt.20, sa.14, ss.7763-7792, 2022 (SCI-Expanded)
- XIII. **The Samos Island (Aegean Sea) M7.0 earthquake: analysis and engineering implications of strong motion data**
ASKAN GÜNDOĞAN A., GÜLERCE Z., Roumelioti Z., Sotiriadis D., Melis N. S., Altindal A., Akbaş B., Sopaci E., Karimzadeh S., Kalogeras I., et al.
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- XIV. **Introduction to the special issue of the Consortium of Organizations for Strong Motion Observation Systems (COSMOS) international guidelines for applying noninvasive geophysical techniques to characterize seismic site conditions**
Yong A., ASKAN GÜNDOĞAN A., Cassidy J., D'Amico S., Parolai S., Pilz M., Stephenson W.
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- XV. **A review of inverse methods in seismic site characterization**
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- XVI. **An evaluation of seismic hazard and potential damage in Gaziantep, Turkey using site specific models for sources, velocity structure and building stock**
ARSLAN KELAM A., Karimzadeh S., Yousefibavil K., AKGÜN H., ASKAN GÜNDOĞAN A., ERBERİK M. A., KOÇKAR M. K., PEKCAN O., Ciftci H.
Soil Dynamics and Earthquake Engineering, cilt.154, 2022 (SCI-Expanded)
- XVII. **Seismic demands of bare and base-isolated steel frames for real against simulated records of a past earthquake**
Ozsarac V., Karimzadeh S., Askan Gündoğan A., Erberik M. A.
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- XVIII. **Predictive performance of current ground motion models for recorded strong motions in 2020 Samos Earthquake**
GÜLERCE Z., Akbaş B., ÖZACAR A. A., Sopaci E., Önder F. M., UZEL B., CAN G., ÇAKIR E., ILGAÇ M., SÖYLEMEZ B., et al.
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- XIX. **The site effects in Izmir Bay of October 30 2020, M7.0 Samos Earthquake**
ÇETİN K. Ö., ALTUN S., ASKAN GÜNDOĞAN A., AKGÜN M., SEZER A., KINCAL C., ÖZDAĞ Ö. C., İpek Y., UNUTMAZ B., GÜLERCE Z., et al.
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- XX. **An assessment of the 3 February 2002 Cay (Turkey) earthquake (Mw=6.6): Modeling of ground motions and felt intensity distribution**
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- XXI. **Comparison of real and simulated records using ground motion intensity measures**
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- XXII. **A case study for probabilistic seismic risk assessment of earthquake-prone old urban centers**
Altindal A., KARIM ZADEH NAGHSHINEH S., ERBERİK M. A., ASKAN GÜNDOĞAN A., ANIL Ö., KOÇKAR M. K., ŞAHMARAN M.
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- XXIII. **Geotechnical aspects of reconnaissance findings after 2020 January 24th, M6.8 Sivrice–Elazığ–Turkey earthquake**
ÇETİN K. Ö., ÇAKIR E., ILGAÇ M., CAN G., SÖYLEMEZ B., Elsaid A., Cuceoglu F., GÜLERCE Z., ASKAN GÜNDOĞAN A., Aydın S., et al.

- Bulletin of Earthquake Engineering, cilt.19, sa.9, ss.3415-3459, 2021 (SCI-Expanded)
- XXIV. **Collection of microseismic intensity data: a model for Turkey**
Karimzadeh S., ASKAN GÜNDOĞAN A.
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- XXV. **Prediction of potential seismic damage using classification and regression trees: a case study on earthquake damage databases from Turkey**
Yerlikaya-Ozkurt F., Askan A.
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- XXVI. **Broadband Ground Motion Simulation Within the City of Duzce (Turkey) and Building Response Simulation**
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- XXVII. **Derivation of analytical fragility curves using SDOF models of masonry structures in Erzincan (Turkey)**
Karimzadeh S., Kadas K., Askan A., Erberik M. A., Yakut A.
EARTHQUAKES AND STRUCTURES, cilt.18, ss.249-261, 2020 (SCI-Expanded)
- XXVIII. **Use of simulated ground motions for the evaluation of energy response of simple structural systems**
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SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, cilt.123, ss.525-542, 2019 (SCI-Expanded)
- XXIX. **Seismic response of base isolated liquid storage tanks to real and simulated near fault pulse type ground motions**
Uçkan M. E., Umut O., Sisman F. N., Karimzadeh S., Askan A.
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, cilt.112, ss.58-68, 2018 (SCI-Expanded)
- XXX. **The 2014 seismic hazard model of the Middle East: overview and results**
Şeşetyan K., Danciu L., Tumsa M. B. D., Giardini D., Erdik M. Ö., Akkar D. S., Gülen L., Zare M., Adamia S., Ansari A., et al.
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- XXXI. **Seismic damage assessment based on regional synthetic ground motion dataset: a case study for Erzincan, Turkey**
Karimzadeh S., Askan A., Erberik M. A., Yakut A.
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- XXXII. **Modeling of a historical earthquake in Erzincan, Turkey (Ms similar to 7.8, in 1939) using regional seismological information obtained from a recent event**
Karim Zadeh Naghshneh S., Askan A.
ACTA GEOPHYSICA, cilt.66, ss.293-304, 2018 (SCI-Expanded)
- XXXIII. **The effect of structural variability and local site conditions on building fragility functions**
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- XXXIV. **Evaluation of Site Response with Alternative Methods: A Case Study for Engineering Implications**
Sisman F. N., Askan A., Asten M.
PURE AND APPLIED GEOPHYSICS, cilt.175, ss.257-273, 2018 (SCI-Expanded)
- XXXV. **Assessment of Simulated Ground Motions for Their Use in Structural Engineering Practice; A Case Study for Duzce (Turkey)**
Karim Zadeh Naghshneh S., Askan A., Yakut A.
Pure And Applied Geophysics, cilt.174, sa.9, ss.3325-3329, 2017 (SCI-Expanded)
- XXXVI. **Assessment of alternative simulation techniques in nonlinear time history analyses of multi-story frame buildings: A case study**
Karimzadeh S., Askan A., Yakut A., Ameri G.
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, cilt.98, ss.38-53, 2017 (SCI-Expanded)
- XXXVII. **Site-specific uniform hazard spectrum in Eastern Turkey based on simulated ground motions including near-field directivity and detailed site effects**

- Sisi A. A., Askan A., Erberik M. A.
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- XXXVIII. **Simulation of large earthquakes and its implications on earthquake insurance rates: a case study in Bursa region (Turkey)**
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- XXXIX. **Development of mean site-dependent response spectra for new bridge designs in Turkey**
 Sarica G. M., Askan A., Caner A.
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- XL. **Hybrid-Empirical Ground Motion Estimations for Georgia**
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- XLI. **Development of integrated earthquake simulation system for Istanbul**
 Sahin A., Şişman R., Askan A., Hori M.
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- XLII. **A Hybrid Computational Method Based on Convex Optimization for Outlier Problems: Application to Earthquake Ground Motion Prediction**
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- XLIII. **Vehicle effects on seismic response of a simple-span bridge during shake tests**
 Shaban N. S., Caner A., Yakut A., Askan A., Naghshineh A. K., Domanic A., Can G.
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- XLIV. **Performance Assessment of Turkish Residential Buildings for Seismic Damage and Loss Estimation**
 Un E. M., Erberik M. A., Askan A.
 JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES, cilt.29, sa.2, 2015 (SCI-Expanded)
- XLV. **Assessment of seismic hazard in the Erzincan (Turkey) region: construction of local velocity models and evaluation of potential ground motions**
 Askan A., Karimzadeh S., Asten M., Kilic N., Sisman F. N., Erkmen C.
 TURKISH JOURNAL OF EARTH SCIENCES, cilt.24, ss.529-565, 2015 (SCI-Expanded)
- XLVI. **An alternative approach to the ground motion prediction problem by a non-parametric adaptive regression method**
 Yerlikaya-Ozkurt F., Askan A., Weber G.
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- XLVII. **A regional near-surface high frequency spectral attenuation (κ) model for northwestern Turkey**
 Askan A., Sisman F. N., Pekcan O.
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- XLVIII. **Site characterisation in north-western Turkey based on SPAC and HVSR analysis of microtremor noise**
 Asten M. W., Askan A., Ekincioglu E. E., Sisman F. N., Ugurhan B.
 EXPLORATION GEOPHYSICS, cilt.45, ss.74-85, 2014 (SCI-Expanded)
- XLIX. **The 23 October 2011 M(w)7.0 Van (Eastern Turkey) Earthquake: Interpretations of Recorded Strong Ground Motions and Post-Earthquake Conditions of Nearby Structures**
 Akansel V., Ameri G., Askan A., Caner A., Erdil B., Kale O., Okuyucu D.
 EARTHQUAKE SPECTRA, cilt.30, ss.657-682, 2014 (SCI-Expanded)
- L. **Relationships between Felt Intensity and Recorded Ground-Motion Parameters for Turkey**
 Bilal M., Askan A.
 BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, cilt.104, ss.484-496, 2014 (SCI-Expanded)
- LI. **Evaluation of Successful Seismic Bridge Design Practice in Turkey**
 Okuyucu D., Kale O., Erdil B., Caner A., Askan A., Akansel V. H.
 JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES, cilt.28, ss.4-12, 2014 (SCI-Expanded)
- LII. **Stochastic strong ground motion simulations in sparsely-monitored regions: A validation and**

sensitivity study on the 13 March 1992 Erzincan (Turkey) earthquake

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LIII. Fault Process and Broadband Ground-Motion Simulations of the 23 October 2011 Van (Eastern Turkey) Earthquake

Gallovic F., Ameri G., Zahradnik J., Jansky J., Plicka V., Sokos E., ASKAN GÜNDOĞAN A., Pakzad M.

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LIV. Strong-Ground-Motion Simulation of the 6 April 2009 L'Aquila, Italy, Earthquake

Ugurhan B., Askan A., Akinci A., Malagnini L.

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LV. A Methodology for Seismic Loss Estimation in Urban Regions Based on Ground-Motion Simulations

Ugurhan B., Askan A., Erberik M. A.

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LVI. 8 March 2010 Elazig-Kovancilar (Turkey) Earthquake: Observations on Ground Motions and Building Damage

Akkar S., Aldemir A., Askan A., Bakir S., Canbay E., Demirel I. O., Erberik M. A., Gülerce Z., Gulkan P., Kalkan E., et al.

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LVII. Stochastic Strong Ground Motion Simulation of the 12 November 1999 Duzce (Turkey) Earthquake Using a Dynamic Corner Frequency Approach

Ugurhan B., Askan A.

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LVIII. Parameter sensitivity analysis of a nonlinear least-squares optimization-based anelastic full waveform inversion method

Askan A., Akcelik V., Bielak J., Ghattas O.

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LIX. Probabilistic methods for the estimation of potential seismic damage: Application to reinforced concrete buildings in Turkey

Askan A., Yüccemen M. S.

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LX. Full Anelastic Waveform Tomography Including Model Uncertainty

Askan A., Bielak J.

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LXI. Full waveform inversion for seismic velocity and anelastic losses in heterogeneous structures

Askan A., Akcelik V., Bielak J., Ghattas O.

BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, cilt.97, ss.1990-2008, 2007 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

I. A Simulated Strong Ground Motion Database for Potential Earthquake Scenarios on North Anatolian Fault Zone

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Muratoğlu G., Askan Gündoğan A.
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- IX. **CORRELATIONS BETWEEN FELT INTENSITY AND INSTRUMENTAL GROUND MOTION PARAMETERS FOR WEST AEGEAN REGION (TURKEY)**
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- X. **EFFECTS OF ALTERNATIVE SITE AMPLIFICATION MODELS IN STRONG MOTION SIMULATIONS**

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- XI. **SIMULATION OF STRONG GROUND MOTION RECORDS OF THE 30 OCTOBER 2020 SAMOS-SEFERIHISAR EARTHQUAKE**
Karimzadeh S., Askan Gündoğan A.
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- XII. **SITE-SPECIFIC PROBABILISTIC SEISMIC HAZARD ANALYSIS IN THE KOCAELI REGION THROUGH PASSIVE SEISMIC TESTS**
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- XIV. **Use of Alternative Site Amplification Models in Simulations and Uncertainty Analysis**
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- XV. **Evaluation of seismic performance measures for MDOF RC structures subjected to simulated and real ground motions**
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- XVI. **Evaluation of Observed Seismic Damage for the 1999 Duzce Earthquake, 5rd 10th International Conference on Advanced Models and New Concepts in Concrete and Masonry Structures (Online-AMCM2020), Lublin, Poland, (October 2020).**
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- XVII. **CORRELATIONS BETWEEN HIGH-FREQUENCY ATTENUATION (KAPPA, K) AND VS30 VALUES FOR WESTERN TURKEY**
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- XVIII. **Collection of Intensity Data in the Aftermath of Large Earthquakes**
ASKAN GÜNDOĞAN A., KARIM ZADEH NAGHSHINEH S.
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- XIX. **Site-Specific Seismic Hazard Analyses for Selected Regions In Turkey In Comparison With The New Seismic Design Code**
YAKUT A., KARIM ZADEH NAGHSHINEH S., ASKAN GÜNDOĞAN A.
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- XX. **A Simulated Ground Motion Database for Turkey for Practical Use in Earthquake Engineering**
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- XXI. **Simulated Ground Motion Based Evaluations for Improving the Limitations in Turkish Ground Motion Database**

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- XXIV. **Broadband Ground Motion Simulations in Zeytinburnu Region, Istanbul for Potential Earthquakes**
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- XXV. **COMPARISON OF STRUCTURAL RESPONSES FOR A BASE ISOLATED BUILDING UNDER REAL AND SIMULATED RECORDS**
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- XXVII. **EVALUATION OF HISTORICAL AND FUTURE URBAN RISKS OF ERZİNCAN CITY BY USING GROUND MOTION SIMULATION**
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- XXVIII. **Numerical Modeling of the 1939 Erzincan Earthquake**
Karım Zadeh Naghshineh S., Askan Gündoğan A.
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- XXIX. **Comparison of Energy-Based Responses of Structural Systems to Real and Simulated Ground Motion Records**
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- XXXII. **Evaluation of Seismic Demand Parameters for a Base Isolated Steel Moment-Resisting Frame Subjected to Real and Simulated Records**
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- XXXIV. **Comparison energy-based seismic structural responses based on simulated ground motions with existing empirical relationships**
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- XXXVI. **COMPARISONS OF ALTERNATIVE SEISMIC INTENSITY PARAMETERS FOR SELECTED SETS OF REAL AND SIMULATED GROUND MOTION RECORDS**
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- XXXVII. **SITE-SPECIFIC PROBABILISTIC SEISMIC HAZARD ASSESSMENT ANALYSES IN ZEYTINBURNU, ISTANBUL**
Askan Gündoğan A., Karimzadeh S.
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- XXXVIII. **Use of Ground Motion Simulations of a Historical Earthquake for the Assessment of Past and Future Urban Risks**
Çelik A., Karimzadeh S., Askan Gündoğan A.
36th General Assembly of the European Seismological Commission (ESC 2018) , Valletta, Malta, 2 - 08 Eylül 2018, ss.615
- XXXIX. **Ground Motion Simulations of a Historical Earthquake for the Assessment of Past and Future Urban Risks**
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- XL. **HIGH-FREQUENCY ATTENUATION (KAPPA, K) ESTIMATIONS FROM THE RECENTLY-COMPILED TURKEY STRONG GROUND MOTION DATABASE FOR WESTERN TURKEY**
Şişman F. N., Kurtulmuş T. Ö., Askan Gündoğan A.
36th General Assembly of the European Seismological Commission (ESC 2018), Valletta, Malta, 2 - 07 Eylül 2018, ss.449
- XLI. **ASSESSMENT OF ALTERNATIVE GROUND MOTION SIMULATION TECHNIQUES IN NONLINEAR TIME HISTORY ANALYSES OF BASE ISOLATED MULTI-STORY FRAME BUILDING: A CASE STUDY**
Ozsarac V., Karim Zadeh Naghshineh S., Askan Gündoğan A.
36th General Assembly of the European Seismological Commission (ESC 2018), Valletta, Malta, 2 - 07 Eylül 2018, ss.463
- XLII. **Site-Specific Probabilistic Seismic Hazard Assessment Analyses in Zeytinburnu, Istanbul**
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The 36th General Assembly of the European Seismological Commission (ESC), Valletta, Malta, 2 - 07 Eylül 2018
- XLIII. **BROADBAND GROUND MOTION SIMULATION WITHIN THE CITY OF DÜZCE (TURKEY) AND BUILDING RESPONSE SIMULATION**
Özlu E., Karimzadeh S., Askan A.
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- XLIV. **FRAGILITY CURVES FOR RC BUILDINGS OF DÜZCE (TURKEY) USING SIMULATED RECORDS**
Kadas K., Karimzadeh S., Askan A., Erberik M. A., Yakut A.
11th U.S. National Conference on Earthquake Engineering, California, Amerika Birleşik Devletleri, 25 - 29 Haziran 2018

- XLV. THE COMPARISON OF DIFFERENT FRAGILITY CURVE GENERATION TECHNIQUES TO ESTIMATE OBSERVED DAMAGE DISTRIBUTIONS**
 Karim Zadeh Naghshineh S., Kadas K., Askan A., Erberik M. A., Yakut A.
 16th European conference on earthquake engineering, Thessaloniki, Yunanistan, 18 - 21 Haziran 2018
- XLVI. MODELING OF THE 1939 ERZINCAN, TURKEY (MS~7.8) EARTHQUAKE: OBSERVATIONS ON ANTICIPATED GROUND MOTIONS AND FELT INTENSITY DISTRIBUTION**
 Karimzadeh S., Askan A.
 16th European Conference on Earthquake Engineering, Thessaloniki, Yunanistan, 18 - 21 Haziran 2018
- XLVII. Hybrid Ground Motion Simulations for the Western Part of Turkey (Duzce) and Building Response Estimation**
 KARIM ZADEH NAGHSHINEH S., Ozlu E., ASKAN GÜNDOĞAN A.
 2nd Workshop on Best Practices in Physics-based Fault Rupture Models for Seismic Hazard Assessment of Nuclear Installations: Issues and Challenges towards Full Seismic Risk Analysis (Best PSHANI), Caradache, 14 - 16 Mayıs 2018
- XLVIII. From Seismic Sources to Engineering Demand Parameters: An Interdisciplinary Framework for Estimation of Seismic Losses in Urban Region**
 ASKAN GÜNDOĞAN A., Asten M., Erberik M. A., Erkmen C., KARIM ZADEH NAGHSHINEH S., Kilic N., Sisman F. N., YAKUT A.
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- XLIX. FROM SEISMIC SOURCES TO ENGINEERING DEMAND PARAMETERS: AN INTERDISCIPLINARY FRAMEWORK FOR ESTIMATION OF SEISMIC LOSSES IN URBAN REGIONS**
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- LI. Comparison of Real and Simulated Records Through Selected Seismic Intensity Measures**
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- LII. Use of Ground Motion Simulations of a Historical Earthquake for the Assessment of Past and Future Urban Risks,**
 Celik A., KARIM ZADEH NAGHSHINEH S., ASKAN GÜNDOĞAN A.
 American Geological Union (AGU), New Orleans, Amerika Birleşik Devletleri, 11 - 15 Aralık 2017
- LIII. BROADBAND GROUND MOTION SIMULATION WITHIN THE CITY OF DUZCE (TURKEY) AND BUILDING RESPONSE SIMULATION**
 ÖZLÜ E., KARIMZADEH S., ASKAN GÜNDOĞAN A.
 4th International Conference on Earthquake Engineering and Seismology, 11 - 13 Ekim 2017
- LIV. An Energy-Based Seismic Response Evaluation of Simple Structural Systems with Simulated Ground Motions**
 KARIM ZADEH NAGHSHINEH S., Ozsarac V., ASKAN GÜNDOĞAN A., Erberik M. A.
 4. International Conference on Earthquake Engineering and Seismology (4ICEES), Eskişehir, Türkiye, 11 - 13 Ekim 2017
- LV. An Investigation on the Use of Simulated Records in Derivation of Fragility Curves for RC Buildings in Duzce**
 Kadaş K., KARIM ZADEH NAGHSHINEH S., ASKAN GÜNDOĞAN A., Erberik M. A., YAKUT A.
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2017

- LVI. **Modeling of the 1939 Erzincan (Ms~7.8) Earthquake: Observations on Anticipated Ground Motions and Damage Distribution**
KARIM ZADEH NAGHSHINEH S., ASKAN GÜNDOĞAN A.
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- LVII. **Energy-based response of simple structural systems by using simulated ground motions**
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10th International Conference on Structural Dynamics (EURODYN), Rome, İtalya, 10 - 13 Eylül 2017, cilt.199, ss.236-241
- LVIII. **A study on fragility analyses of masonry buildings in Erzincan (Turkey) utilizing simulated and real ground motion records**
Karimzadeh S., Kadas K., ASKAN GÜNDOĞAN A., ERBERİK M. A., YAKUT A.
10th International Conference on Structural Dynamics (EURODYN), Rome, İtalya, 10 - 13 Eylül 2017, cilt.199, ss.188-193
- LIX. **Mathematical Models in Seismology: Integrated Mathematical Models for Earthquakes: Implications for Science and Engineering**
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- LXI. **Broadband Ground Motion Simulation within Duzce City (Turkey) and Building Response Simulation**
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- LXII. **Integrated Mathematical Models for Earthquakes: Implications for Earthquake Engineering**
ASKAN GÜNDOĞAN A.
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- LXIII. **An Interdisciplinary Approach for Regional Seismic Damage Estimation**
ASKAN GÜNDOĞAN A., Erberik M. A., KARIM ZADEH NAGHSHINEH S., YAKUT A., Sisman F. N., Kilic N., Asten M.
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- LXIV. **Seismic Damage Assessment in Erzincan (Turkey) utilizing Synthetic Ground Motion Records**
KARIM ZADEH NAGHSHINEH S., ASKAN GÜNDOĞAN A., Erberik M. A., YAKUT A.
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- LXV. **Energy-Based Response of Simple Structural Systems by using Simulated Ground Motions**
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The American Geophysical Union Annual Fall Meeting (AGU), San-Francisco, Kostarika, 12 - 16 Aralık 2016
- LXVI. **Evaluation of Site Response with Alternative Methods A Case Study for Engineering Implications**
Şişman N., ASKAN GÜNDOĞAN A.
12th International Congress on Advances in Civil Engineering, 21 - 23 Eylül 2016
- LXVII. **Seismic Damage Estimation on Regional Basis A Case Study**
ERBERİK M. A., ASKAN GÜNDOĞAN A.
12th International Congress on Advances in Civil Engineering, 21 - 23 Eylül 2016
- LXVIII. **Assessment of Simulated Ground Motions for their Use in Structural Engineering Practice**
KARIM ZADEH NAGHSHINEH S., ASKAN GÜNDOĞAN A., YAKUT A.
12th International Congress on Advances in Civil Engineering (ACE), İstanbul, Türkiye, 21 - 23 Eylül 2016
- LXIX. **Implementation of the Multi Mode Spatial Autocorrelation MMSPAC Methods along the North**

Anatolian Fault Zone Turkey

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- LXX. **A Quick Look at the Inversion of SW Data and Related Issues**
ASKAN GÜNDOĞAN A., Yong A., Asten M.
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- LXXI. **A Study on Fragility Analysis of Masonry Buildings**
shaghayegh k., ASKAN GÜNDOĞAN A., ERBERİK M. A., YAKUT A.
ESC2016, Trieste, İtalya, 7 - 10 Eylül 2016
- LXXII. **A Study on Fragility Analyses of Masonry Buildings in Erzincan (Turkey) Utilizing Simulated and Real Ground Motion Records**
KARIM ZADEH NAGHSHINEH S., Kadaş K., ASKAN GÜNDOĞAN A., Erberik M. A., YAKUT A.
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- LXXIII. **Nonlinear time history analyses of multi-degree of freedom structures under real and synthetic records using stochastic finite-fault methodology**
KARIM ZADEH NAGHSHINEH S., ASKAN GÜNDOĞAN A., YAKUT A.
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- LXXIV. **Broadband Ground Motion Simulations for Istanbul (Turkey)**
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1st International Conference on Natural Hazards and Infrastructure: Protection, Design, Rehabilitation (ICONHIC), Chania, Yunanistan, 28 - 30 Haziran 2016
- LXXV. **Simulation of 13 March 1992 Erzincan Turkey Earthquake Including a Near Field Forward Directivity Pulse Model Implications for Earthquake Engineering**
Aida S. A., ASKAN GÜNDOĞAN A., ERBERİK M. A.
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- LXXVI. **Multicomponent seismic loss estimation on the North Anatolian Fault Zone**
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- LXXVIII. **Regional Kappa Models on North Anatolian Fault Zone (Turkey) and Their Use in Ground Motion Simulations**
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Yayın: 163

Atf (WoS): 622

Atf (Scopus): 600

H-İndeks (WoS): 15

H-İndeks (Scopus): 16

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