

# **Prof.Dr. AYŞEGÜL ASKAN GÜNDÖĞAN**

## **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.OĞUZ(Öğrenci), 2022

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Erberik M. A., Askın Gündoğan A., Effect of vertical ground motion on the performance of high-rise buildings, Yüksek Lisans, E.KESKİN(Öğrenci), 2020

Erberik M. A., Askın Gündoğan A., Seismic performance of masonry buildings subjected to synthetic ground motions, Yüksek Lisans, A.BAHADIR(Öğrenci), 2019

Kentel Erdoğan E., Askın 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.KARIMZADEH(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 sayisal modellenmesi : kuvvetli yer hareketi simulasyonu 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

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ASKAN GÜndoğan A., Türkiye için hissedilen şiddet ile ölçülen yer hareketi parametreleri arasındaki ilişki, Yüksek Lisans, M.Bilal(Öğrenci), 2013

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## **Jüri Üyelikleri**

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

Doktora Tez İzleme Komitesi (TİK) Üyeliği, Doktora Tez İzleme Komitesi (TİK) Üyeliği, 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**  
Altindal A., ASKAN GÜNDÖĞAN 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**  
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- III. **Preface for the Focus Section on the 6 February 2023, Kahramanmaraş, Türkiye, Earthquakes**  
ÇETİN K. Ö., Kalkan E., ASKAN GÜNDÖĞAN A., Bohnhoff M., Ergintav S., Konca Ö. A. Ö., Taymaz T., Sabuncu Ç. Ç., GÜLERCE Z.  
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- IV. **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 GÜNDÖĞAN A.  
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- V. **Modeling of kappa factor using multivariate adaptive regression splines: application to the western Türkiye ground motion dataset**  
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- VI. **ANN-based ground motion model for Turkey using stochastic simulation of earthquakes**  
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- VII. **Blind study site assessment of shear-wave velocity at Kumamoto City, Japan, using direct-fitting SPAC methods**  
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- VIII. **Construction and validation of a simulated ground motion dataset for Turkey**  
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- IX. **Site-specific seismic hazard analyses in the Izmit region (Marmara, Turkey) through passive seismic tests**  
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- X. **The Sensitivity of Global Structural Parameters for Unreinforced Masonry Buildings Subjected to Simulated Ground Motions**  
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- XI. **Comparison of machine learning tools for damage classification: the case of L'Aquila 2009**

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- Di Michele F., Stagnini E., Pera D., Rubino B., Aloisio R., ASKAN GÜNDÖĞAN A., Marcati P.  
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- XII. **Impact of local site effects on seismic risk assessment of reinforced concrete bridges**  
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SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, cilt.164, 2023 (SCI-Expanded)
- XIII. **Predictive kappa (kappa) models for Turkey: Regional effects and uncertainty analysis**  
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EARTHQUAKE SPECTRA, cilt.38, sa.4, ss.2479-2499, 2022 (SCI-Expanded)
- XIV. **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.  
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- XV. **The Samos Island (Aegean Sea) M7.0 earthquake: analysis and engineering implications of strong motion data**  
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- XVI. **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 GÜNDÖĞAN A., Cassidy J., D'Amico S., Parolai S., Pilz M., Stephenson W.  
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- XVII. **A review of inverse methods in seismic site characterization**  
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- XVIII. **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 GÜNDÖĞAN A., ERBERİK M. A., KOÇKAR M. K., PEKCAN O., Ciftci H.  
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- XIX. **Seismic demands of bare and base-isolated steel frames for real against simulated records of a past earthquake**  
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- XX. **Predictive performance of current ground motion models for recorded strong motions in 2020 Samos Earthquake**  
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- XXI. **The site effects in Izmir Bay of October 30 2020, M7.0 Samos Earthquake**  
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- XXII. **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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- XXIII. **Comparison of real and simulated records using ground motion intensity measures**  
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- XXIV. 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 GÜNDÖĞAN A., Aydin S., et al.  
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*International Journal of Disaster Risk Reduction*, cilt.61, 2021 (SCI-Expanded)
- XXVI. Collection of microseismic intensity data: a model for Turkey**  
 Karimzadeh S., ASKAN GÜNDÖĞAN A.  
*ARABIAN JOURNAL OF GEOSCIENCES*, cilt.14, sa.5, 2021 (SCI-Expanded)
- XXVII. Prediction of potential seismic damage using classification and regression trees: a case study on earthquake damage databases from Turkey**  
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*NATURAL HAZARDS*, cilt.103, ss.3163-3180, 2020 (SCI-Expanded)
- XXVIII. Broadband Ground Motion Simulation Within the City of Duzce (Turkey) and Building Response Simulation**  
 Ozmen E., Karimzadeh S., Askan A.  
*PURE AND APPLIED GEOPHYSICS*, cilt.177, sa.5, ss.2353-2373, 2020 (SCI-Expanded)
- XXIX. 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.  
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- XXX. Use of simulated ground motions for the evaluation of energy response of simple structural systems**  
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- XXXI. Seismic response of base isolated liquid storage tanks to real and simulated near fault pulse type ground motions**  
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- XXXII. The 2014 seismic hazard model of the Middle East: overview and results**  
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- XXXIV. 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 Naghshnemeh S., Askan A.  
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- XXXV. The effect of structural variability and local site conditions on building fragility functions**  
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- XXXVIII. Assessment of alternative simulation techniques in nonlinear time history analyses of multi-story frame buildings: A case study**  
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- XXXIX. 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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- XL. Development of mean site-dependent response spectra for new bridge designs in Turkey**  
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- XLI. Simulation of large earthquakes and its implications on earthquake insurance rates: a case study in Bursa region (Turkey)**  
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- XLII. Hybrid-Empirical Ground Motion Estimations for Georgia**  
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- XLIII. Development of integrated earthquake simulation system for Istanbul**  
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- XLIV. A Hybrid Computational Method Based on Convex Optimization for Outlier Problems: Application to Earthquake Ground Motion Prediction**  
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- XLV. Vehicle effects on seismic response of a simple-span bridge during shake tests**  
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- XLVI. Performance Assessment of Turkish Residential Buildings for Seismic Damage and Loss Estimation**  
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- XLVII. Assessment of seismic hazard in the Erzincan (Turkey) region: construction of local velocity models and evaluation of potential ground motions**  
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- XLVIII. An alternative approach to the ground motion prediction problem by a non-parametric adaptive regression method**  
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- XLIX. A regional near-surface high frequency spectral attenuation ( $\kappa$ ) model for northwestern Turkey**  
 Askan A., Sisman F. N., Pekcan O.  
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- L. Site characterisation in north-western Turkey based on SPAC and HVSR analysis of microtremor noise**  
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- LI. 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**  
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- LII. **Evaluation of Successful Seismic Bridge Design Practice in Turkey**  
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- LIII. **Relationships between Felt Intensity and Recorded Ground-Motion Parameters for Turkey**  
Bilal M., Askan A.  
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- LIV. **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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- LVI. **Strong-Ground-Motion Simulation of the 6 April 2009 L'Aquila, Italy, Earthquake**  
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- LVII. **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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- LVIII. **8 March 2010 Elazig-Kovancilar (Turkey) Earthquake: Observations on Ground Motions and Building Damage**  
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- LIX. **Stochastic Strong Ground Motion Simulation of the 12 November 1999 Duzce (Turkey) Earthquake Using a Dynamic Corner Frequency Approach**  
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## **Etkinlik Organizasyonlarındaki Görevler**

Askan Gündoğan A., International Conference on Disaster Resilience (IDRC 2022), Bilimsel Kongre / Sempozyum Organizasyonu, Türkiye, Ekim 2022

Askan Gündoğan A., Aagaard B., COSMOS Ground-Motion Simulation Working Group Workshop #2 , Çalıştay Organizasyonu, Türkiye, Ekim 2022

Askan Gündoğan A., Aagaard B., COSMOS Ground-Motion Simulation Working Group Workshop #1, Çalıştay Organizasyonu, Amerika Birleşik Devletleri, Haziran 2022

Askan Gündoğan A., Pilz M., D'amico S., American Geophysical Union 2021 Fall Meeting (NS45A - Integrated Geophysical Investigations for Seismic Site Characterization), Bilimsel Kongre / Sempozyum Organizasyonu, Amerika Birleşik Devletleri, Aralık 2021

Askan Gündoğan A., Akgün H., Türer A., Sucuoğlu H., 6th International Conference on Earthquake Engineering and Seismology (6ICEES) , Bilimsel Kongre / Sempozyum Organizasyonu, Türkiye, Ekim 2021

Erberik M. A., Askan Gündoğan A., Koçkar M. K., Beşinci Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, Bilimsel Kongre / Sempozyum Organizasyonu, Ankara, Türkiye, Ekim 2019

Askan Gündoğan A., 3rd Workshop of Japanese-Turkish Resilience Engineering Program (JTRE) , Çalıştay Organizasyonu, Ankara, Türkiye, Ocak 2018

## **Metrikler**

Yayın: 166

Atıf (WoS): 626

Atıf (Scopus): 603

H-İndeks (WoS): 15

H-İndeks (Scopus): 16

## **Kongre ve Sempozyum Katılımı Faaliyetleri**

Erzincan Kent Konseyi: Depremle Yaşamak Sempozyumu, Davetli Konuşmacı, Erzincan, Türkiye, 2022

Consortium of Organizations for Strong Motion Observation Systems (COSMOS) Technical Session 2022, Davetli Konuşmacı, California, Amerika Birleşik Devletleri, 2022

Consortium of Organizations for Strong Motion Observation Systems (COSMOS) Technical Session, Davetli Konuşmacı, California, Amerika Birleşik Devletleri, 2021

Consortium of Organizations for Strong Motion Observation Systems (COSMOS) Technical Session, Davetli Konuşmacı, California, Amerika Birleşik Devletleri, 2021

37th Annual Meeting of the European Seismological Commission (ESC), Davetli Konuşmacı, Athens, Yunanistan, 2021

5th International Conference on Earthquake Engineering and Seismology, Davetli Konuşmacı, Ankara, Türkiye, 2019

Joint symposium for the Japan and Turkey inter-university exchange project, Davetli Konuşmacı, Tokyo, Japonya, 2019

36th General Assembly of the European Seismological Commission (ESC 2018) , Davetli Konuşmacı, Valletta, Malta, 2018

## **Davetli Konuşmalar**

Simulation of large earthquakes and its implications on earthquake insurance rates: a case study in Bursa region, Çalıştay, JSPS Project WS on earthquake ground motion estimation in historical city, Bursa, Japonya, Temmuz 2022

The report on the 2020 Elazığ & İzmir earthquakes: seismological aspects, damage investigation and social issues, Konferans, Japan Association of Earthquake Engineering (JAEE), Japonya, Aralık 2020

## **Ödüller**

Günbaş E. G., ASKAN GÜNDÖĞAN A., Mustafa Parlar Vakfı Araştırma Teşvik Ödülü, Parlar Vakfı, Aralık 2018

## **Tanıtım ve Temsil Faaliyetleri**

Kurumsal Tanıtım, ORTA DOĞU TEKNİK ÜNİVERSİTESİ, Türkiye, Ankara, 2020 - 2020

## **Akademi Dışı Deneyim**

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