

# Prof. AYŞEGÜL ASKAN GÜNDOĞAN

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: AAZ-9911-2020

ScopusID: 35809826800

Yoksis Researcher ID: 163734

## Education Information

Doctorate, Carnegie Mellon University, İnşaat Mühendisliği, United States Of America 2002 - 2006

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Yapı Mekaniği Anabilim Dalı, Turkey 2000 - 2002

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1996 - 2000

## Foreign Languages

English, C1 Advanced

## Research Areas

Civil Engineering, Structure, Earthquake Engineering, Engineering and Technology

## Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2017 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2011 - Continues

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2009 - 2011

Lecturer, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2007 - 2009

## Academic and Administrative Experience

Rectorate Commissioner, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2018 - Continues

Assistant Director of the Institute, Middle East Technical University, Faculty of Engineering, Department of Civil

Engineering, 2018 - Continues

Head of Department, Middle East Technical University, Graduate School of Natural and Applied Sciences, Earthquake Studies, 2015 - Continues

## Courses

FINITE ELEMENT METHOD, Postgraduate, 2018 - 2019

## Advising Theses

ASKAN GÜNDOĞAN A., Physics-based ground motion simulation of the 2020 Samos earthquake, Postgraduate, Y.URHAN(Student), 2022

ASKAN GÜNDOĞAN A., A preliminary prioritization framework of seismic safety for historical structures in Türkiye, Postgraduate, C.TEMİZ(Student), 2022

ASKAN GÜNDOĞAN A., COMPARISON OF GROUND MOTION SCALING METHODS BY CONSIDERING VERTICAL GROUND MOTIONS, Postgraduate, U.ÖĞÜZ(Student), 2022

ASKAN GÜNDOĞAN A., Generic site amplification factors for Northwestern Türkiye and their use in ground motion simulations, Postgraduate, G.MURATOĞLU(Student), 2022

ASKAN GÜNDOĞAN A., Integrated vulnerability assessment platform (IVAP), Postgraduate, A.SAADİ(Student), 2022

Erberik M. A., Askan Gündoğan A., Effect of vertical ground motion on the performance of high-rise buildings, Postgraduate, E.KESKİN(Student), 2020

Erberik M. A., Askan Gündoğan A., Seismic performance of masonry buildings subjected to synthetic ground motions, Postgraduate, A.BAHADIR(Student), 2019

Kentel Erdoğan E., Askan Gündoğan A., Prediction of felt intensity from ground motion parameters using artificial neural network method, Postgraduate, S.İÇEL(Student), 2019

ASKAN GÜNDOĞAN A., Ground motion prediction equations based on simulated ground motions, Postgraduate, K.GÖZENER(Student), 2018

ASKAN GÜNDOĞAN A., CANER A., Multi-support seismic excitation of long span highway bridges, Postgraduate, T.GÖKDEMİR(Student), 2017

ERBERİK M. A., ASKAN GÜNDOĞAN A., Derivation of site-specific uhs based on simulated ground motions and its parametric effects on building fragility, Doctorate, A.AZARI(Student), 2016

ASKAN GÜNDOĞAN A., Use of simulated strong ground motion records in earthquake engineering applications, Doctorate, S.KARİMZADEH(Student), 2016

KESTEL S. A., ASKAN GÜNDOĞAN A., Ground motion simulations based on regional input parameters and their impact on insurance premiums: Bursa case, Postgraduate, B.ÜNAL(Student), 2015

ASKAN GÜNDOĞAN A., Numerical modeling of 3 february 2002 Çay earthquake : ground motion simulation and intensity distribution, Postgraduate, G.Can(Student), 2014

ASKAN GÜNDOĞAN A., Comparison of mean site-specific response spectra in Turkey with the design spectra of AASHTO, Postgraduate, G.MESTAV(Student), 2014

ASKAN GÜNDOĞAN A., Numerical modeling of the 3 February 2002 Çay earthquake: Ground motion simulation and intensity distribution, Postgraduate, G.CAN(Student), 2014

ASKAN GÜNDOĞAN A., ERBERİK M. A., An approach for seismic damage assessment of residential buildings /, Postgraduate, C.DEMİRÇİ(Student), 2014

ASKAN GÜNDOĞAN A., Relationships between felt intensity and recorded ground motion parameters for Turkey, Postgraduate, M.BİLAL(Student), 2013

ASKAN GÜNDOĞAN A., Relationships between felt intensity and instrumental ground motion parameters for Turkey, Postgraduate, M.Bilal(Student), 2013

ASKAN GÜNDOĞAN A., ERBERİK M. A., An integrated seismic loss estimation methodology: A case study in Northwestern Turkey, Postgraduate, E.MÜGE(Student), 2011

ASKAN GÜNDOĞAN A., Stochastic strong ground motion simulations on North Anatolian fault zone and Central Italy: Validation, limitation and sensitivity analyses, Postgraduate, B.UĞURHAN(Student), 2010

## Jury Memberships

Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, May, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi, June, 2019

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Gebze Teknik Üniversitesi, November, 2018

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

- 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, vol.5, no.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., Taciroğlu E.  
Soil Dynamics and Earthquake Engineering, vol.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, vol.36, no.3, pp.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, vol.236, no.1, pp.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.  
Earth, Planets and Space, vol.75, no.1, 2023 (SCI-Expanded)
- VI. **Construction and validation of a simulated ground motion dataset for Turkey**  
Altındal A., ASKAN GÜNDOĞAN A.  
Journal of Seismology, vol.27, no.6, pp.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, vol.21, no.12, pp.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.  
Buildings, vol.13, no.8, 2023 (SCI-Expanded)
- 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, vol.116, no.3, pp.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, vol.164, 2023 (SCI-Expanded)
- XI. **Predictive kappa ( $\kappa$ ) models for Turkey: Regional effects and uncertainty analysis**  
Altindal A., ASKAN GÜNDOĞAN A.  
EARTHQUAKE SPECTRA, vol.38, no.4, pp.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, vol.20, no.14, pp.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.  
BULLETIN OF EARTHQUAKE ENGINEERING, vol.20, no.14, pp.7737-7762, 2022 (SCI-Expanded)
- 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.  
JOURNAL OF SEISMOLOGY, vol.26, no.4, pp.557-566, 2022 (SCI-Expanded)
- XV. **A review of inverse methods in seismic site characterization**  
Gosselin J. M., Dosso S. E., ASKAN GÜNDOĞAN A., Wathelet M., Savvaidis A., Cassidy J. F.  
JOURNAL OF SEISMOLOGY, vol.26, no.4, pp.781-821, 2022 (SCI-Expanded)
- 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, vol.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.  
STRUCTURE AND INFRASTRUCTURE ENGINEERING, vol.18, pp.1266-1281, 2022 (SCI-Expanded)
- 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.  
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.152, 2022 (SCI-Expanded)
- 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.  
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.152, 2022 (SCI-Expanded)
- XX. **An assessment of the 3 February 2002 Cay (Turkey) earthquake ( $M_w=6.6$ ): Modeling of ground motions and felt intensity distribution**  
CAN G., ASKAN GÜNDOĞAN A., Karimzadeh S.  
Soil Dynamics and Earthquake Engineering, vol.150, 2021 (SCI-Expanded)
- XXI. **Comparison of real and simulated records using ground motion intensity measures**  
KARIM ZADEH NAGHSHINEH S., Kadas K., ASKAN GÜNDOĞAN A., YAKUT A.  
Soil Dynamics and Earthquake Engineering, vol.147, 2021 (SCI-Expanded)
- 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.

- International Journal of Disaster Risk Reduction, vol.61, 2021 (SCI-Expanded)
- 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, vol.19, no.9, pp.3415-3459, 2021 (SCI-Expanded)
- XXIV. **Collection of microseismic intensity data: a model for Turkey**  
Karimzadeh S., ASKAN GÜNDOĞAN A.  
ARABIAN JOURNAL OF GEOSCIENCES, vol.14, no.5, 2021 (SCI-Expanded)
- 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.  
NATURAL HAZARDS, vol.103, pp.3163-3180, 2020 (SCI-Expanded)
- XXVI. **Broadband Ground Motion Simulation Within the City of Duzce (Turkey) and Building Response Simulation**  
Ozmen E., Karimzadeh S., Askan A.  
PURE AND APPLIED GEOPHYSICS, vol.177, no.5, pp.2353-2373, 2020 (SCI-Expanded)
- 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, vol.18, pp.249-261, 2020 (SCI-Expanded)
- XXVIII. **Use of simulated ground motions for the evaluation of energy response of simple structural systems**  
Karimzadeh S., Ozsarac V., Askan A., ERBERİK M. A.  
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.123, pp.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, vol.112, pp.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.  
BULLETIN OF EARTHQUAKE ENGINEERING, vol.16, pp.3535-3566, 2018 (SCI-Expanded)
- 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.  
NATURAL HAZARDS, vol.92, pp.1371-1397, 2018 (SCI-Expanded)
- 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 Naghshme S., Askan A.  
ACTA GEOPHYSICA, vol.66, pp.293-304, 2018 (SCI-Expanded)
- XXXIII. **The effect of structural variability and local site conditions on building fragility functions**  
Sisi A. A., Erberik M. A., Askan A.  
EARTHQUAKES AND STRUCTURES, vol.14, pp.285-295, 2018 (SCI-Expanded)
- 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, vol.175, pp.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 Naghshme S., Askan A., Yakut A.  
Pure And Applied Geophysics, vol.174, no.9, pp.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, vol.98, pp.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.

ACTA GEOPHYSICA, vol.65, pp.309-330, 2017 (SCI-Expanded)

- XXXVIII. **Simulation of large earthquakes and its implications on earthquake insurance rates: a case study in Bursa region (Turkey)**

Ünal B., Askan A., Selcuk-Kestel A. S.

NATURAL HAZARDS, vol.85, no.1, pp.215-236, 2017 (SCI-Expanded)

- XXXIX. **Development of mean site-dependent response spectra for new bridge designs in Turkey**

Sarica G. M., Askan A., Caner A.

STRUCTURE AND INFRASTRUCTURE ENGINEERING, vol.13, pp.1002-1012, 2017 (SCI-Expanded)

- XL. **Hybrid-Empirical Ground Motion Estimations for Georgia**

Tsereteli N., Askan A., Hamzehloo H.

ACTA GEOPHYSICA, vol.64, pp.1225-1256, 2016 (SCI-Expanded)

- XLI. **Development of integrated earthquake simulation system for Istanbul**

Sahin A., Şişman R., Askan A., Hori M.

EARTH PLANETS AND SPACE, vol.68, 2016 (SCI-Expanded)

- XLII. **A Hybrid Computational Method Based on Convex Optimization for Outlier Problems: Application to Earthquake Ground Motion Prediction**

Yerlikaya-Ozkurt F., Askan A., Weber G.

INFORMATICA, vol.27, pp.893-910, 2016 (SCI-Expanded)

- 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.

Earthquake Engineering and Structural Dynamics, vol.44, no.6, pp.889-905, 2015 (SCI-Expanded)

- 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, vol.29, no.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., Erkmek C.

TURKISH JOURNAL OF EARTH SCIENCES, vol.24, pp.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.

ENGINEERING OPTIMIZATION, vol.46, pp.1651-1668, 2014 (SCI-Expanded)

- XLVII. **A regional near-surface high frequency spectral attenuation ( $\kappa$ ) model for northwestern Turkey**

Askan A., Sisman F. N., Pekcan O.

SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.65, pp.113-125, 2014 (SCI-Expanded)

- 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, vol.45, pp.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, vol.30, pp.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, vol.104, pp.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, vol.28, pp.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**  
Askan A., Sisman F. N., Ugurhan B.  
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.55, pp.170-181, 2013 (SCI-Expanded)
- LIII. **Fault Process and Broadband Ground-Motion Simulations of the 23 October 2011 Van (Eastern Turkey) Earthquake**  
Galovic F., Ameri G., Zhradnik J., Jansky J., Plicka V., Sokos E., ASKAN GÜNDOĞAN A., Pakzad M.  
BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, vol.103, no.6, pp.3164-3178, 2013 (SCI-Expanded)
- LIV. **Strong-Ground-Motion Simulation of the 6 April 2009 L'Aquila, Italy, Earthquake**  
Ugurhan B., Askan A., Akinci A., Malagnini L.  
BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, vol.102, pp.1429-1445, 2012 (SCI-Expanded)
- LV. **A Methodology for Seismic Loss Estimation in Urban Regions Based on Ground-Motion Simulations**  
Ugurhan B., Askan A., Erberik M. A.  
BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, vol.101, pp.710-725, 2011 (SCI-Expanded)
- 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.  
SEISMOLOGICAL RESEARCH LETTERS, vol.82, no.1, pp.42-58, 2011 (SCI-Expanded)
- LVII. **Stochastic Strong Ground Motion Simulation of the 12 November 1999 Duzce (Turkey) Earthquake Using a Dynamic Corner Frequency Approach**  
Ugurhan B., Askan A.  
BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, vol.100, no.4, pp.1498-1512, 2010 (SCI-Expanded)
- LVIII. **Parameter sensitivity analysis of a nonlinear least-squares optimization-based anelastic full waveform inversion method**  
Askan A., Akcelik V., Bielak J., Ghattas O.  
COMPTES RENDUS MECANIQUE, vol.338, pp.364-376, 2010 (SCI-Expanded)
- LIX. **Probabilistic methods for the estimation of potential seismic damage: Application to reinforced concrete buildings in Turkey**  
Askan A., Yücemem M. S.  
STRUCTURAL SAFETY, vol.32, pp.262-271, 2010 (SCI-Expanded)
- LX. **Full Anelastic Waveform Tomography Including Model Uncertainty**  
Askan A., Bielak J.  
BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, vol.98, pp.2975-2989, 2008 (SCI-Expanded)
- 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, vol.97, pp.1990-2008, 2007 (SCI-Expanded)

## Articles Published in Other Journals

- I. **A Simulated Strong Ground Motion Database for Potential Earthquake Scenarios on North Anatolian Fault Zone**  
Askan A., Karım Zadeh Naghshineh S.  
Turkish Journal of Earthquake Research, vol.1, no.1, pp.76-97, 2019 (Peer-Reviewed Journal)

## Books & Book Chapters

### I. Site Effects

ÇETİN K. Ö., Papadimitriou A., Mylonakis G., Ziotopoulou K., ASKAN GÜNDOĞAN A., ILGAÇ M., CAN G., ÇAKIR E., SÖYLEMEZ B., Elsaid A., et al.

in: Seismological and Engineering Effects of the M 7.0 Samos Island (Aegean Sea) Earthquake, K. Onder Cetin, George Mylonakis, Anastasios Sextos, Jonathan P. Stewart, Editor, GEER, pp.160-178, 2020

### II. Seismic Intensity Maps for the Eastern Part of the North Anatolian Fault Zone (Turkey) Based on Recorded and Simulated Ground-Motion Data

KARIM ZADEH NAGHSHINEH S., ASKAN GÜNDOĞAN A., Bilal M.

in: ACTIVE GLOBAL SEISMOLOGY: NEOTECTONICS AND EARTHQUAKE POTENTIAL OF THE EASTERN MEDITERRANEAN REGION, Ibrahim Cemen, Yucel Yilmaz, Editor, Wiley, pp.273-287, 2017

## Refereed Congress / Symposium Publications in Proceedings

### I. Performance Evaluation Of Generic Site Amplification Functions For Ground Motion Simulations In Northwestern Türkiye: A Case Study Of The 1999 Düzce Earthquake

MURATOĞLU G., ASKAN GÜNDOĞAN A.

7th International Conference on Earthquake Engineering and Seismology (7ICEES), Antalya, Turkey, 6 - 10 November 2023

### II. Estimating Site Amplifications for an Enhanced Understanding of Ground Motion Effects in Northwestern Türkiye

MURATOĞLU G., ASKAN GÜNDOĞAN A.

7th International Conference on Earthquake Engineering and Seismology (7ICEES), Antalya, Turkey, 6 - 10 November 2023

### III. SELECTION AND SCALING VALIDATION OF GROUND MOTIONS ACCORDING TO TBEC-2018 FOR THE SEISMIC ASSESSMENT OF MASONRY STRUCTURES

Funari M. F., Karimzadeh S., Caicedo D., Hussaini S. M., ASKAN GÜNDOĞAN A., Lourenço P. B.

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ASKAN GÜNDOĞAN A., Erberik M. A., YAKUT A., Kilic N., KARIM ZADEH NAGHSHINEH S., Sisman N., Asten M.  
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- XC. **Assessment of synthetic ground motion records from alternative simulation methods in dynamic response analysis of building structures**  
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- XCI. **A Data Mining Approach for Modeling High-frequency Spectral Decay of Ground Motions for Northwestern Turkey**  
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EURO, The 22nd European Conference on Operational Research, Vilnius, Lithuania, 8 - 11 June 2012
- XCII. **Assessment of Synthetic Ground Motion Records Obtained from Alternative Simulation Methods in Dynamic Analyses of Multi-Story frame Buildings**  
KARIM ZADEH NAGHSHINEH S., ASKAN GÜNDOĞAN A., Ameri G., YAKUT A.  
2012 Seismological Society of America Annual Meeting, San Diego, California, United States Of America, 17 - 19 April 2012, vol.83, pp.372
- XCIII. **A Regional High-frequency Attenuation (Kappa) Model for Northwestern Turkey**  
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## Episodes in the Encyclopedia

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## Supported Projects

Askan Gündoğan A., Şenol Balaban M., Koçkar M. K., Erberik M. A., Tün M., Kop A., Uyguçgil H., Mutlu S., Project Supported by Other Official Institutions, Developing a Method for Urban Seismic Resilience Assessment: Türkoğlu, Kahramanmaraş Case, 2021 - 2023

Şahmaran M., Erberik M. A., Koçkar M. K., Askan Gündoğan A., Anıl Ö., Aldemir A., Durmaz M., Project Supported by Other Official Institutions, Etkin ve Ekonomik Güçlendirme Uygulaması İçin Orta Hasarlı Binaların Artık Kapasitelerinin Tahmin Metodu, 2020 - 2021

Erberik M. A., Askan Gündoğan A., Project Supported by Other Private Institutions, Yapı Sağlık İzleme Yazılımı Geliştirme Projesi, 2020 - 2021

Huvaj Sarihan N., Kentel Erdoğan E., Askan Gündoğan A., Şenol Balaban M., Balaban O., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Ministry of Environment, Urbanization and Climate Change, DEVELOPMENT OF MITIGATION MEASURES AND RISK REDUCTION CRITERIA TO BE BASED ON SPATIAL PLANS, 2020 - 2021

Askan Gündoğan A., Company, Makine Öğrenme Metodu Kullanılarak Bina Yapılacak Arazilerde Yapı Şartnamesinde İstenen Parametrelere Otomatik Karar Verilmesi ve Mobil Uygulama Geliştirilmesi, 2018 - 2020

Askan Gündoğan A., Erberik M. A., Project Supported by Other Official Institutions, Kamu Binaları Deprem Risk Envanteri için Yöntem Geliştirilmesi, 2019 - 2019

Askan Gündoğan A., Pekcan O., Erberik M. A., Akgün H., Municipality, GAZİANTEP İLİ MERKEZ İLÇELERİNDE SİSMİK TEHLİKE TABANLI YAPISAL RİSKLERİN BELİRLENMESİ İÇİN DEPREM MASTER PLANI HAZIRLIK PROJESİ, 2018 - 2019

Askan A., TICA-JICA Cooperation Program Supported Project, Earthquake and Tsunami Disaster Mitigation in the Marmara Region and Disaster Education in Turkey (MARDİM), 2013 - 2018

ASKAN GÜNDOĞAN A., YAKUT A., Project Supported by Other Private Institutions, İvrindi Altın-Gümüş Maden ve zenginleştirme sahası sismik tehlike analizleri, 2017 - 2017

Askan A., Project Supported by Higher Education Institutions, MARMARA BÖLGESİNDE DEPREM VE TSUNAMİ ZARARLARININ AZALTILMASI VE AFET EĞİTİMİ, 2015 - 2017

ASKAN GÜNDOĞAN A., Project Supported by Higher Education Institutions, Kentsel Alanlarda Zemin Büyüme Faktörlerinin Alternatif Yöntemlerle Tayini, 2010 - 2010

ASKAN GÜNDOĞAN A., TUBITAK Project, Sismik Tehlikenin Yüksek Olduğu Kentsel Alanlarda Mikrotremor Ve Gelişmiş Çoklu-Mod Uzaysal Özilişki (Mmspac) Yöntemi İle Zeminlerin Özelliklerinin Belirlenmesi, 2009 - 2010

## Activities in Scientific Journals

JOURNAL OF SEISMOLOGY, Special Issue Editor, 2020 - Continues

Turkish Journal of Earthquake Research, Advisory Committee Member, 2019 - Continues

## Memberships / Tasks in Scientific Organizations

COSMOS, Executive Board Member, 2021 - Continues, United States Of America

Türkiye Deprem Mühendisliği Derneği, Member, 2009 - Continues



## Scientific Refereeing

SEISMOLOGICAL RESEARCH LETTERS, Journal Indexed in SCI-E, December 2022

TUBITAK Project, 1505 - University-Industry Cooperation Support Program, Middle East Technical University, Turkey, December 2022

INTERNATIONAL JOURNAL OF DISASTER RISK REDUCTION, Journal Indexed in SCI-E, November 2022

SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, Journal Indexed in SCI-E, October 2022

EARTH, PLANETS AND SPACE, Journal Indexed in SCI-E, October 2022

EARTH, PLANETS AND SPACE, Journal Indexed in SCI-E, August 2022

The Seismic Record, Other Indexed Journal, August 2022

JOURNAL OF EARTHQUAKE ENGINEERING, Journal Indexed in SCI-E, July 2022

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SEISMOLOGICAL RESEARCH LETTERS, Journal Indexed in SCI-E, March 2022

GEOPHYSICAL JOURNAL INTERNATIONAL, Journal Indexed in SCI-E, February 2022

SEISMOLOGICAL SOCIETY OF AMERICA. BULLETIN, Journal Indexed in SCI-E, February 2022

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SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, September 2021

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JOURNAL OF EARTHQUAKE ENGINEERING, SCI Journal, June 2021

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JOURNAL OF EARTHQUAKE ENGINEERING, SCI Journal, June 2018  
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TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, May 2018  
Engineering Structures, SCI Journal, April 2018  
Soil Dynamics And Earthquake Engineering, SCI Journal, March 2018  
EARTH PLANETS AND SPACE, SCI Journal, February 2018

## **Scientific Consultations**

COSMOS, Scientific Consultancy, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey, 2016 - Continues

## Tasks In Event Organizations

Askan Gündoğan A., International Conference on Disaster Resilience (IDRC 2022), Scientific Congress, Turkey, Ekim 2022

Askan Gündoğan A., Aagaard B., COSMOS Ground-Motion Simulation Working Group Workshop #2 , Workshop Organization, Turkey, Ekim 2022

Askan Gündoğan A., Aagaard B., COSMOS Ground-Motion Simulation Working Group Workshop #1, Workshop Organization, United States Of America, Haziran 2022

Askan Gündoğan A., Pilz M., D'amico S., American Geophysical Union 2021 Fall Meeting (NS45A - Integrated Geophysical Investigations for Seismic Site Characterization), Scientific Congress, United States Of America, Aralık 2021

Askan Gündoğan A., Akgün H., Türer A., Sucuoğlu H., 6th International Conference on Earthquake Engineering and Seismology (6ICEES) , Scientific Congress, Turkey, Ekim 2021

Erberik M. A., Askan Gündoğan A., Koçkar M. K., Beşinci Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, Scientific Congress, Ankara, Turkey, Ekim 2019

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

## Metrics

Publication: 163

Citation (WoS): 622

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H-Index (WoS): 15

H-Index (Scopus): 16

## Congress and Symposium Activities

Erzincan Kent Konseyi: Depremle Yaşamak Sempozyumu, Invited Speaker, Erzincan, Turkey, 2022

Consortium of Organizations for Strong Motion Observation Systems (COSMOS) Technical Session 2022, Invited Speaker, California, United States Of America, 2022

Consortium of Organizations for Strong Motion Observation Systems (COSMOS) Technical Session, Invited Speaker, California, United States Of America, 2021

Consortium of Organizations for Strong Motion Observation Systems (COSMOS) Technical Session, Invited Speaker, California, United States Of America, 2021

37th Annual Meeting of the European Seismological Commission (ESC), Invited Speaker, Athens, Greece, 2021

5th International Conference on Earthquake Engineering and Seismology, Invited Speaker, Ankara, Turkey, 2019

Joint symposium for the Japan and Turkey inter-university exchange project, Invited Speaker, Tokyo, Japan, 2019

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

## Invited Talks

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

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

## Awards

Günbař E. G., ASKAN GÜNDOĐAN A., Mustafa Parlar Vakfı Arařtırma Teřvik Ödülü, Parlar Vakfı, December 2018

## **Representation and Promotion Activities**

Institutional Promotion, ORTA DOĐU TEKNİK ÜNİVERSİTESİ, Turkey, Ankara, 2020 - 2020

## **Non Academic Experience**

METU

METU

Carnegie Mellon University

Carnegie Mellon University

METU