#### Prof. AYŞEGÜL ASKAN GÜNDOĞAN

#### **Personal Information**

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#### **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

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

Rectorate Commissioner, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering,

#### 2018 - 2024

Assistant Director of the Institute, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, 2018 - 2024

#### 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.OĞUZ(Student), 2022

ASKAN GÜNDOĞAN A., Generic site amplification factors for Northwestern Turkiye 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

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

ERBERİK M. A., ASKAN GÜNDOĞAN 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 Kahramanmaras earthquakes
   Altindal A., Askan Gündoğan A.
   Communications Earth and Environment, vol.5, no.1, 2024 (SCI-Expanded)
- II. Engineering attributes of ground motions from February 2023 Türkiye earthquake sequence Buckreis T. E., Pretell R., Sandikkaya M. A., Kale Ö., Askan Gündoğan A., Brandenberg S. J., Stewart J. P. Earthquake Spectra, vol.40, no.4, pp.2268-2284, 2024 (SCI-Expanded)
- III. Simulation of Strong Ground Motions From the October 30, 2020, Samos Earthquake and Validations Against Observed Records, Intensity Distributions, and Damages in Izmir, Türkiye Karimzadeh S., Askan Gündoğan A.

Journal of Earthquake and Tsunami, vol.18, no.5, 2024 (SCI-Expanded)

IV. Development of a GIS-Based Predicted-VS30 Map of Türkiye Using Geological and Topographical Parameters: Case Study for the Region Affected by the 6 February 2023 Kahramanmaraş Earthquakes

Şahin G., Okalp K., Koçkar M. K., Yılmaz M. T., Jalehforouzan A., Temiz F. A., Askan Gündoğan A., Akgün H., Erberik M. A.

Seismological Research Letters, vol.95, no.4, pp.2044-2057, 2024 (SCI-Expanded)

V. Modeling of kappa factor using multivariate adaptive regression splines: application to the western Türkiye ground motion dataset

Kurtulmuş T. Ö., Yerlikaya–Özkurt F., Askan Gündoğan A.

Natural Hazards, vol.120, no.8, pp.7817-7844, 2024 (SCI-Expanded)

VI. Preface for the Focus Section on the 6 February 2023, Kahramanmaraş, Türkiye, Earthquakes
 Çetin K. Ö., Kalkan E., Askan Gündoğan A., Bohnhoff M., Ergintav S., Konca Ö. A. Ö., Taymaz T., Sabuncu Ç. Ç., Gülerce
 Z.

Seismological Research Letters, vol.95, no.2 A, pp.560-561, 2024 (SCI-Expanded)

VII. Local site effects at the selected stations affected by the February 6 2023 Türkiye Earthquake Sequences

İlhan O., Indır O., Muratoğlu G., İçen A., Albayrak K., Sandıkkaya M. A., Askan Gündoğan A., Arduino P., Taciroğlu E. Soil Dynamics and Earthquake Engineering, vol.178, 2024 (SCI-Expanded)

#### VIII. Seismic scenario simulation and ANN-based ground motion model development on the North Tabriz Fault in Northwest Iran

Temiz C., Hussaini S. M. S., Karimzadeh S., ASKAN GÜNDOĞAN A., Lourenço P. B. Journal of Seismology, 2024 (SCI-Expanded)

 IX. 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)

Х.	Fundamental period estimation of RC buildings by considering structural and non-structural damage
	distributions through neural network
	Cinar O. F., Aldemir A., Zervent A., Yucel O. B., Erberik M. A., Anıl Ö., Şahmaran M., Koçkar M. K., Askan Gündoğan A.
	Neural Computing and Applications, vol.36, no.3, pp.1329-1350, 2024 (SCI-Expanded)
XI.	Construction and validation of a simulated ground motion dataset for Turkey
	Altindal A., Askan Gündoğan A.
	Journal of Seismology, vol.27, no.6, pp.1047-1065, 2023 (SCI-Expanded)
XII.	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)
XIII.	Site-specific seismic hazard analyses in the Izmit region (Marmara, Turkey) through passive seismic
	tests
	Altindal A., Askan Gündoğan A., Asten M., Sisman F. N., Karimzadeh S., Barış Ş., Çaka D.
	Bulletin of Earthquake Engineering, vol.21, no.12, pp.5403-5418, 2023 (SCI-Expanded)
XIV.	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)
XV.	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)
XVI.	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)
XVII.	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)
XVIII.	Predictive kappa (kappa) models for Turkey: Regional effects and uncertainty analysis
AV 111.	Altindal A., ASKAN GÜNDOĞAN A.
	EARTHQUAKE SPECTRA, vol.38, no.4, pp.2479-2499, 2022 (SCI-Expanded)
XIX.	The role of site effects on elevated seismic demands and corollary structural damage during the
71175	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)
XX.	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)
XXI.	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)
XXII.	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)

XXIII. 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)

XXIV. The site effects in Izmir Bay of October 30 2020, M7.0 Samos Earthquake Çetin K. Ö., Altun S., Askan Gündoğan A., Akgün M., Sezer A., Kıncal C., Özdağ Ö. C., İpek Y., Unutmaz B., Gülerce Z., et al.

SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.152, 2022 (SCI-Expanded)

- XXV. Predictive performance of current ground motion models for recorded strong motions in 2020
  Samos Earthquake
  GÜLERCE Z., Akbaş B., ÖZACAR A. A., Sopacı 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)
  XXVI. An assessment of the 3 February 2002 Cay (Turkey) earthquake (Mw=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)

Soil Dynamics and Earthquake Engineering, vol.150, 2021 (SCI-Expanded)

- XXVII. 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)
- XXVIII. Geotechnical aspects of reconnaissance findings after 2020 January 24th, M6.8 Sivrice-Elazig-Turkey earthquake

ÇETİN K. Ö., ÇAKIR E., ILGAÇ M., CAN G., SÖYLEMEZ B., Elsaid A., Cuceoglu F., GÜLERCE Z., ASKAN GÜNDOĞAN A., Aydin S., et al.

Bulletin of Earthquake Engineering, vol.19, no.9, pp.3415-3459, 2021 (SCI-Expanded)

XXIX. A case study for probabilistic seismic risk assessment of earthquake-prone old urban centers Altindal A., Karım Zadeh Naghshıneh S., Erberik M. A., Askan Gündoğan A., Anıl Ö., Koçkar M. K., Şahmaran M. International Journal of Disaster Risk Reduction, vol.61, 2021 (SCI-Expanded)

XXX. 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)

XXXI. 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)

# XXXII. 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)

### XXXIII. 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)

XXXIV. 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)

# XXXV. 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)

XXXVI. 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)

XXXVII. 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)

XXXVIII. Modeling of a historical earthquake in Erzincan, Turkey (Ms similar to 7.8, in 1939) using regional seismological information obtained from a recent event Karım Zadeh Naghshıneh S., Askan A.

ACTA GEOPHYSICA, vol.66, pp.293-304, 2018 (SCI-Expanded)

XXXIX. 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)

XL. 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)

XLI. Assessment of Simulated Ground Motions for Their Use in Structural Engineering Practice; A Case Study for Duzce (Turkey)

Karım Zadeh Naghshineh S., Askan A., Yakut A.

Pure And Applied Geophysics, vol.174, no.9, pp.3325-3329, 2017 (SCI-Expanded)

XLII. 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)

XLIII. 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)

XLIV. 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)

XLV. 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)

XLVI. Seismic Intensity Maps for the Eastern Part of the North Anatolian Fault Zone (Turkey) Based on Recorded and Simulated Ground-Motion Data Askan A., Karimzadeh S., Bilal M.

ACTIVE GLOBAL SEISMOLOGY: NEOTECTONICS AND EARTHQUAKE POTENTIAL OF THE EASTERN MEDITERRANEAN REGION, vol.225, pp.273-287, 2017 (SCI-Expanded)

XLVII. Hybrid-Empirical Ground Motion Estimations for Georgia Tsereteli N., Askan A., Hamzehloo H.

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

XLVIII. **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)

XLIX. 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)

L.	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)
LI.	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)
LII.	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, vol.24, pp.529-565, 2015 (SCI-Expanded)
LIII.	An alternative approach to the ground motion prediction problem by a non-parametric adaptive
2	regression method
	Yerlikaya-Ozkurt F., Askan A., Weber G.
	ENGINEERING OPTIMIZATION, vol.46, pp.1651-1668, 2014 (SCI-Expanded)
LIV.	A regional near-surface high frequency spectral attenuation (kappa) model for northwestern Turkey
LIV.	
	Askan A., Sisman F. N., Pekcan O.
1.17	SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.65, pp.113-125, 2014 (SCI-Expanded)
LV.	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)
LVI.	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)
LVII.	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)
LVIII.	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)
LIX.	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.
	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, vol.103, no.6, pp.3164-3178, 2013 (SCI-Expanded)
LX.	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)
LXI.	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)
LXII.	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)
LXIII.	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)
LXIV.	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)

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

Askan A., Yücemen M. S.

STRUCTURAL SAFETY, vol.32, pp.262-271, 2010 (SCI-Expanded)

- LXVII. **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)
- LXVIII.Full waveform inversion for seismic velocity and anelastic losses in heterogeneous structuresAskan 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 Numerical Investigation of Longitudinal Track-Bridge Interaction in Simply Supported Precast Concrete Girder Railway Bridges
   Ozturk A., Baran E., Askan Gündoğan A.
   Practice Periodical on Structural Design and Construction, vol.29, no.3, 2024 (ESCI)
- II. 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

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L/MMIII.	records using stochastic finite-fault methodology
	KARIM ZADEH NAGHSHINEH S., ASKAN GÜNDOĞAN A., YAKUT A.
	1st International Conference on Natural Hazards and Infrastructure: Protection, Design, Rehabilitation (ICONHIC),
	Chania, Greece, 28 - 30 June 2016
LXXXIV.	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.
	Seismological Society of America Annual Meeting 2016, 20 - 22 April 2016
LXXXV.	Regional Kappa Models on North Anatolian Fault Zone (Turkey) and Their Use in Ground Motion
	Simulations
	KARIM ZADEH NAGHSHINEH S., ASKAN GÜNDOĞAN A., Sisman F. N.
	2015 American Geophysical Union Annual Fall Meeting, 14 - 18 December 2015
LXXXVI.	Multicomponent seismic loss estimation on the North Anatolian Fault Zone
	Karimzadeh S., ASKAN GÜNDOĞAN A., ERBERİK M. A., YAKUT A.
	AGU 2015 Fall Meeting, 14 - 18 December 2015
LXXXVII.	Multicomponent seismic loss estimation on the North Anatolian Fault Zone (Turkey)
LAAAVII.	KARIM ZADEH NAGHSHINEH S., ASKAN GÜNDOĞAN A., Erberik M. A., YAKUT A.
	2015 American Geophysical Union Annual Fall Meeting, San-Francisco, Costa Rica, 14 - 18 December 2015
LXXXVIII.	Assessment of Simulated Ground Motions in Earthquake Engineering Practice: A Case Study for
	Duzce (Turkey)
	Karimzadeh S., ASKAN GÜNDOĞAN A., YAKUT A.
	1st Workshop on Best Practices in Physics-Based Fault Rupture Models for Seismic Hazard Assessment of Nuclear
	Installations (BestPSHANI), Vienna, Austria, 18 - 20 November 2015, pp.265-283
LXXXIX.	A Hybrid Computational Method based on Convex Optimizationfor Outlier Problems
	Yerlikaya Ozkurt F., ASKAN GÜNDOĞAN A., WEBER G. W.
	The Institute for Operations Research and the Management Sciences (INFORMS) 2015 Annual Meeting, 1 - 04
	November 2015
XC.	Kentsel Alanlar için Bütünleşik Sismik Kayip Tahmin Yöntemi: Erzincan Pilot Uygulamasi
	ASKAN GÜNDOĞAN A., Asten M., Erberik M. A., Erkmen C., KARIM ZADEH NAGHSHINEH S., Kilic N., Sisman F. N.,
	YAKUT A.
	3rd Turkish Conference on Earthquake Engineering and Seismology, İzmir, Turkey, 14 - 16 October 2015
XCI.	Seismic damage assessment using synthetic ground motions: a case study for Erzincan
	KARIM ZADEH NAGHSHINEH S., ASKAN GÜNDOĞAN A., Erberik M. A., YAKUT A.
	3rd Turkish Conference on Earthquake Engineering and Seismology, İzmir, Turkey, 14 - 16 October 2015
XCII.	Preliminary Assessment of Seismic Vulnerability of Lifelines with a Focus on Bridges
	Topkara N., Sarıca G. M., CANER A., ASKAN GÜNDOĞAN A.
	2015 New York Bridge Conference, 24 - 25 August 2015
XCIII.	Seismic Intensity Maps for Scenario Events on the Eastern Segments of North Anatolian Fault Zone
	of Turkey based on Simulated Ground Motion Data
	KARIM ZADEH NAGHSHINEH S., ASKAN GÜNDOĞAN A., Bilal M.
	2015 Seismological Society of America Annual Meeting, Pasadena, California, United States Of America, 21 - 23 May
	2015, vol.86, pp.686
XCIV.	Earthquakes vulnerability and disaster risk Georgia case
	Tsereteli N., Varazanashvili O., ASKAN GÜNDOĞAN A.
	EGU General Assembly Conference Abstracts, 12 - 17 April 2015, vol.17, pp.5884
XCV.	HYBRID EMPIRICAL GROUND MOTION MODELS FOR GEORGIA
	ASKAN GÜNDOĞAN A., TSERETELI N.
	Seismological Society of America 2015 Annual Meeting, 21 - 23 April 2015, vol.86, pp.663
XCVI.	Assessment of synthetic ground motion records obtained from alternative simulation techniques in
	nonlinear time history analyses of multi-storey frame buildings: A case study
	Karimzadeh S., ASKAN GÜNDOĞAN A., YAKUT A., Ameri G.
	9th International Conference on Structural Dynamics (EURODYN), Porto, Portugal, 30 June - 02 July 2014, pp.351-
	358
XCVII.	Estimation of seismic losses in urban regions within an interdisciplinary framework a case study
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May 2014, vol.85, pp.511

- XCVIII. Assessment Of Synthetic Ground Motion Records Obtained From Alternative Simulation Techniques In Nonlinear Time History Analyses Of Multi-Storey Frame Buildings: A Case Study KARIM ZADEH NAGHSHINEH S., ASKAN GÜNDOĞAN A., YAKUT A., Ameri G.
   2nd Turkish Conference on Earthquake Engineering and Seismology, Hatay, Turkey, 25 - 27 September 2013
   XCIX. Assessment of synthetic ground motion records from alternative simulation methods in dynamic response analysis of building structures KARIM ZADEH NAGHSHINEH S., ASKAN GÜNDOĞAN A., YAKUT A., Ameri G.
   2013 Seismological Society of America Annual Meeting, Salt Lake City, Utah, United States Of America, 17 - 19 April 2013, vol.84, pp.368
  - C. A Data Mining Approach for Modeling High-frequency Spectral Decay of Ground Motions for Northwestern Turkey
     ŞİŞMAN F. N., PEKCAN O., ASKAN GÜNDOĞAN A.
     EURO, The 22nd European Conference on Operational Research, Vilniaus, Lithuania, 8 - 11 June 2012
     CI. A Regional High-frequency Attenuation (Kappa) Model for Northwestern Turkey
     ŞİŞMAN F. N., PEKCAN O., ASKAN GÜNDOĞAN A.
    - SSA, 2012 Seismological Society of America Annual Meeting, 17 19 April 2012
  - CII. 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

#### **Episodes in the Encyclopedia**

I. Encyclopedia of Earthquake Engineering ASKAN GÜNDOĞAN A., ERBERİK M. A., BİLAL M. Springer Berlin Heidelberg, pp., 2015

#### **Supported Projects**

Askan Gündoğan A., Sezer A., Nuhoğlu A., Kincal C., Erdoğan D. Ş., Ercan E., Erberik M. A., Ecemiş Zeren N., Tan O., Dönmez C., et al., TUBITAK Project, İzmir Bornova Baseninde Simülasyon-Tabanlı Deprem Senaryolarının Yapısal

Hasargörebilirlik Dağılımı ve Dirençli Kentsel Planlama Üzerindeki Etkileri, 2022 - 2025

Şenol Balaban M., Yalçıner A. C., Askan Gündoğan A., Pekcan O., Universities of Other Countries Supported Project, Creation support and utilization of the 2023 Kahramanmaraş Earthquake related digital archive, 2023 - 2024

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 Uygulamasi İçin Orta Hasarli Binalarin Artık KapasitelerininTahmin Metodu, 2020 - 2021

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

Huvaj Sarıhan 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 (MARDIM), 2013 - 2018

YAKUT A., ASKAN GÜNDOĞAN 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 Alernatif Yöntemlerle Tayini., 2010 - 2010

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

#### **Activities in Scientific Journals**

ASCE OPEN, Special Issue Editor, 2023 - Continues Turkish Journal of Earthquake Research, Advisory Committee Member, 2019 - Continues EARTHQUAKE SPECTRA, Special Issue Editor, 2023 - 2024 SEISMOLOGICAL RESEARCH LETTERS, Special Issue Editor, 2023 - 2024 JOURNAL OF SEISMOLOGY, Special Issue Editor, 2020 - 2022

#### Memberships / Tasks in Scientific Organizations

COSMOS, Executive Board Member, 2021 - Continues, United States Of America Türkiye Deprem Mühendisliği Derneği, Member, 2009 - Continues

#### **Scientific Refereeing**

EARTHQUAKE SPECTRA, SCI Journal, December 2023 EARTHQUAKE SPECTRA, SCI Journal, November 2023 TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, November 2023 EARTHQUAKE SPECTRA, SCI Journal, October 2023 JOURNAL OF SEISMOLOGY, SCI Journal, October 2023 TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, September 2023 **JOURNAL OF SEISMOLOGY, SCI Journal, May 2023** TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, May 2023 TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, March 2023 TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, March 2023 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 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, Journal Indexed in SCI-E, July 2022 JOURNAL OF EARTHQUAKE ENGINEERING, Journal Indexed in SCI-E, May 2022 EARTHQUAKE SPECTRA, Journal Indexed in SCI-E, April 2022 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, Journal Indexed in SCI-E, April 2022 TUBITAK Project, 1505 - University-Industry Cooperation Support Program, Middle East Technical University, Turkey, April 2022 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 Project Supported by Other Official Institutions, Middle East Technical University, Turkey, February 2022 JOURNAL OF EARTHQUAKE ENGINEERING, Journal Indexed in SCI-E, January 2022 EARTHQUAKE SPECTRA, Journal Indexed in SCI-E, January 2022 TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, January 2022 INTERNATIONAL JOURNAL OF DISASTER RISK REDUCTION, SCI Journal, December 2021 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, December 2021 TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, December 2021 TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, December 2021 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, September 2021 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, September 2021 Project Supported by Other Official Institutions, Middle East Technical University, Turkey, September 2021 Acta Geophysica, SCI Journal, August 2021 TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, August 2021 TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, August 2021 TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, August 2021 TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, August 2021 JOURNAL OF EARTHQUAKE ENGINEERING, SCI Journal, June 2021 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, June 2021 NATURAL HAZARDS, SCI Journal, June 2021 JOURNAL OF EARTHQUAKE ENGINEERING, SCI Journal, May 2021 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, May 2021 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, May 2021 TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, May 2021 SEISMOLOGICAL RESEARCH LETTERS, SCI Journal, April 2021 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, March 2021 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, March 2021 Project Supported by Other Official Institutions, Middle East Technical University, Turkey, March 2021 **JOURNAL OF EARTHQUAKE ENGINEERING, SCI Journal, February 2021** SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, February 2021

SEISMOLOGICAL SOCIETY OF AMERICA. BULLETIN, SCI Journal, February 2021 JOURNAL OF EARTHQUAKE AND TSUNAMI, SCI Journal, February 2021 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, February 2021 SEISMOLOGICAL RESEARCH LETTERS, SCI Journal, January 2021 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, January 2021 NATURAL HAZARDS, SCI Journal, December 2020 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, November 2020 JOURNAL OF ENGINEERING MECHANICS-ASCE, SCI Journal, November 2020 BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, SCI Journal, November 2020 JOURNAL OF EARTHQUAKE AND TSUNAMI, Journal Indexed in SCI-E, November 2020 TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, November 2020 INTERNATIONAL JOURNAL OF DISASTER RISK REDUCTION, SCI Journal, October 2020 ACTA GEOPHYSICA, SCI Journal, October 2020 STRUCTURES, Journal Indexed in SCI-E, October 2020 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, September 2020 **ENGINEERING STRUCTURES, SCI Journal, September 2020** SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, August 2020 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, August 2020 Project Supported by Other Official Institutions, Middle East Technical University, Turkey, August 2020 Project Supported by Other Official Institutions, Middle East Technical University, Turkey, August 2020 TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, August 2020 Project Supported by Other Official Institutions, Middle East Technical University, Turkey, August 2020 ENGINEERING STRUCTURES, SCI Journal, July 2020 Journal Of Engineering Mechanics-Asce, SCI Journal, June 2020 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, May 2020 **ENGINEERING STRUCTURES, SCI Journal, May 2020** JOURNAL OF EARTHQUAKE ENGINEERING, SCI Journal, April 2020 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, April 2020 **ENGINEERING OPTIMIZATION, SCI Journal, February 2020 ENGINEERING STRUCTURES, SCI Journal, February 2020** EARTHQUAKE ENGINEERING AND ENGINEERING VIBRATION, Journal Indexed in SCI-E, January 2020 NATURAL HAZARDS, Journal Indexed in SCI-E, November 2019 ACTA GEOPHYSICA, Journal Indexed in SCI-E, November 2019 JOURNAL OF ENGINEERING MECHANICS-ASCE, SCI Journal, November 2019 TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, November 2019 SEISMOLOGICAL RESEARCH LETTERS, SCI Journal, October 2019 SEISMOLOGICAL RESEARCH LETTERS, SCI Journal, October 2019 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, August 2019 **JOURNAL OF EARTHQUAKE ENGINEERING, SCI Journal, August 2019** SEISMOLOGICAL RESEARCH LETTERS, SCI Journal, July 2019 TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, July 2019 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, June 2019 JOURNAL OF EARTHQUAKE ENGINEERING, SCI Journal, June 2019 ACTA GEOPHYSICA, Journal Indexed in SCI-E, May 2019 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, April 2019 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, April 2019 TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, April 2019 Project Supported by Other Official Institutions, Middle East Technical University, Turkey, April 2019 EARTHQUAKES AND STRUCTURES, Journal Indexed in SCI-E, March 2019 PURE AND APPLIED GEOPHYSICS, Journal Indexed in SCI-E, March 2019 PURE AND APPLIED GEOPHYSICS, Journal Indexed in SCI-E, February 2019

SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, February 2019 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, February 2019 TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, February 2019 PURE AND APPLIED GEOPHYSICS, Journal Indexed in SCI-E, January 2019 PURE AND APPLIED GEOPHYSICS, Journal Indexed in SCI-E, January 2019 Engineering Structures, SCI Journal, November 2018 JOURNAL OF EARTHQUAKE ENGINEERING, SCI Journal, November 2018 TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, November 2018 TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, November 2018 TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, November 2018 TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, November 2018 **BULLETIN OF EARTHQUAKE ENGINEERING, SCI Journal, October 2018** PURE AND APPLIED GEOPHYSICS, SCI Journal, September 2018 Soil Dynamics And Earthquake Engineering, SCI Journal, September 2018 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, August 2018 JOURNAL OF EARTHQUAKE ENGINEERING, SCI Journal, August 2018 **BULLETIN OF EARTHQUAKE ENGINEERING, SCI Journal, August 2018** Seismological Research Letters, SCI Journal, August 2018 PURE AND APPLIED GEOPHYSICS, SCI Journal, July 2018 Seismological Research Letters, SCI Journal, July 2018 JOURNAL OF EARTHQUAKE ENGINEERING, SCI Journal, June 2018 EARTHQUAKE ENGINEERING AND ENGINEERING VIBRATION, SCI Journal, June 2018 JOURNAL OF EARTHQUAKE ENGINEERING, SCI Journal, May 2018 Bulletin Of Earthquake Engineering, SCI Journal, May 2018 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, May 2018 SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, SCI Journal, May 2018 EARTH PLANETS AND SPACE, SCI Journal, May 2018 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., COSMOS Site Characterization Workshop, Workshop Organization, Turkey, Şubat 2023 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: 184 Citation (WoS): 721 Citation (Scopus): 1040 H-Index (WoS): 16 H-Index (Scopus): 20

#### **Congress and Symposium Activities**

Canadian Conference - Pacific Conference on Earthquake Engineering 2023, Invited Speaker, Vancouver, Canada, 2023 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 Meeeting 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**

How extreme are the 6 February 2023 Kahramanmaraş, Turkiye earthquakes?Observations on seismic hazard levels, recorded ground motions and damages, Seminar, D-learning Series Fall 2023, Japan, October 2023 Turkey and Syria after the Earthquakes Panel 4: Long-Term Recovery (2): Building Back Better, Seminar, CARRRE Panel, United States Of America, October 2023

February 6, 2023 Kahramanmaraş Earthquakes: An Initial Assessment of Recorded Ground Motions and Observed Damages , Workshop, 2023 Blended Intensive Programme (B.I.P.) in Mathematical Modelling, Italy, July 2023 February 6, 2023 Kahramanmaraş earthquakes: an Initial Assessment of Recorded Ground Motions and Observed Damages, Seminar, cee200: Structural & Geotechnical Engineering Seminar Series, United States Of America, April 2023 Characteristics of the earthquake ground motion and damage to buildings, Seminar, Joint Seminar on the 2023 Earthquake in the Southern Türkiye and Syria -Mechanism, damage and strategy for recovery, reconstruction, BBB, and Resilient society, Japan, March 2023 February 6, 2023 Kahramanmaraş Earthquakes: An Initial Assessment of Recorded Ground Motions and Observed Damages, Seminar, USGS Earthquake Science Center Seminars, United States Of America, March 2023 Ground Motions of the 6 February 2023 Kahramanmaraş Earthquakes: an Initial Assessment, Seminar, Building Seismic Safety Council (BSSC 2023), United States Of America, March 2023 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

Günbaş E. G., ASKAN GÜNDOĞAN A., Mustafa Parlar Vakfı Araştırma Teşvik Ödülü, Parlar Vakfı, December 2018

#### **Representation and Promotion Activities**

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

#### **Non Academic Experience**

METU METU Carnegie Mellon University Carnegie Mellon University METU