

## Prof. ZEYNEP GÜLERCE

### Personal Information

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### International Researcher IDs

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ScopusID: 36760727600

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### Education Information

Doctorate, University of California, Davis, Civil And Environmental Engineering, United States Of America 2004 - 2008

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 2002 - 2004

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1998 - 2002

### Foreign Languages

English, C1 Advanced

### Dissertations

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

Postgraduate, 1999 Kocaeli Depreminde Sakarya İlinin Yapısal Performansının Geoteknik ve Deprem Mühendisliği Yönünden CBS Tabanlı İncelenmesi, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2004

### Research Areas

Earthquake Seismology, Civil Engineering, Geotechnical, Soil Dynamics, Structure, Earthquake Engineering, Engineering and Technology

### Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2019 - Continues  
Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2014 - 2019

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2010 - 2014

Lecturer, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2009 - 2010

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2002 - 2004

## Advising Theses

GÜLERCE Z., Towards the non-ergodic ground motion models of Turkey: Assessment of systematic site, source and path effects, Postgraduate, F.MEHMET(Student), 2022

Gülerce Z., Özacar A. A., Estimation of high-frequency attenuation parameter (KAPPA) for hard rock stations of Turkish strong motion network, Postgraduate, A.ÖZGÜN(Student), 2021

Gülerce Z., Logic tree for ground motion characterization of the vertical component: A case study based on updated Turkish ground motion database, Postgraduate, N.AGHA(Student), 2019

Gülerce Z., Probabilistic assessment of the contribution of geotechnical factors on observed structural damage in Adapazari and Düzce regions, Postgraduate, B.YILDIZLI(Student), 2019

Gülerce Z., Özacar A. A., Fault based probabilistic seismic hazard assessment at different tectonic regimes and data sampling conditions: Emphasis on sensitivity of seismic source characterization, Doctorate, S.TANVIR(Student), 2019

Gülerce Z., Modelling the variability in seismically induced slope displacements due to ground motion selection, Postgraduate, B.OKAN(Student), 2019

Kaymakçı N., Gülerce Z., Comparative analysis of the international regulations and guidelines related to the seismic hazard assessment for nuclear facilities, Postgraduate, B.GÜNER(Student), 2019

GÜLERCE Z., PROBABILISTIC METHODS FOR ESTIMATING THE SEISMIC DEFORMATIONS OF UNDERGROUND STRUCTURES, Postgraduate, K.BUĞRA(Student), 2018

GÜLERCE Z., Experimental evaluation of geomembrane / geotextile interface as base isolating system, Postgraduate, A.TAHERI(Student), 2016

GÜLERCE Z., Probabilistic seismic hazard assessment for east anatolian fault zone using planar source models, Postgraduate, A.MENEKŞE(Student), 2016

GÜLERCE Z., Effects of seismic source model parameters on the probabilistic seismic hazard assessment results, Postgraduate, M.VAKILINEZHAD(Student), 2015

GÜLERCE Z., KAYMAKCI N., A Sensitivity study for probabilistic seismic hazard assessment of Sinop nuclear power plant site, Postgraduate, E.Yılar(Student), 2014

GÜLERCE Z., A sensitivity study for probabilistic seismic hazard assessment of Sinop nuclear power plant site, Postgraduate, E.YILAR(Student), 2014

GÜLERCE Z., Development of site specific vertical design spectrum for Turkey, Postgraduate, E.AKYÜZ(Student), 2013

GÜLERCE Z., Probabilistic seismic hazard assessment of Ilgaz-Abant segments of North Anatolian fault using improved seismic source models, Postgraduate, M.LEVENDOĞLU(Student), 2013

GÜLERCE Z., Probabilistic seismic hazard assessment for earthquake induced landslides, Postgraduate, O.BALAL(Student), 2013

GÜLERCE Z., Turkey-adjusted next generation attenuation models, Postgraduate, B.KARGIOĞLU(Student), 2012

GÜLERCE Z., Probabilistic seismic hazard assessment of Eastern Marmara and evaluation of Turkish Earthquake Code requirements, Postgraduate, R.SONER(Student), 2011

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

- 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)

- II. **Summary of the Abrahamson and Gulerce NGA-SUB ground-motion model for subduction earthquakes**  
Abrahamson N. A., GÜLERCE Z.  
Earthquake Spectra, vol.38, no.4, pp.2638-2681, 2022 (SCI-Expanded)
- III. **Geotechnical reconnaissance findings of the October 30 2020, Mw7.0 Samos Island (Aegean Sea) earthquake**  
Ziotopoulou K., ÇETİN K. Ö., Pelekis P., Altun S., Klimis N., SEZER A., Rovithis E., YILMAZ M. T., Papadimitriou A. G., GÜLERCE Z., et al.  
Bulletin of Earthquake Engineering, vol.20, no.14, pp.7819-7852, 2022 (SCI-Expanded)
- IV. **Comparisons of the NGA-Subduction ground motion models**  
Gregor N., Addo K., Abrahamson N. A., Al Atik L., Atkinson G. M., Boore D. M., Bozorgnia Y., Campbell K. W., Chiou B. S., GÜLERCE Z., et al.  
Earthquake Spectra, vol.38, no.4, pp.2580-2610, 2022 (SCI-Expanded)
- V. **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., Sopacı E., Karimzadeh S., Kalogeras I., et al.  
BULLETIN OF EARTHQUAKE ENGINEERING, vol.20, no.14, pp.7737-7762, 2022 (SCI-Expanded)
- VI. **NGA-Subduction research program**  
Bozorgnia Y., Abrahamson N. A., Ahdi S. K., Ancheta T. D., Atik L. A., Archuleta R. J., Atkinson G. M., Boore D. M., Campbell K. W., S-J Chiou B., et al.  
Earthquake Spectra, vol.38, no.2, pp.783-798, 2022 (SCI-Expanded)
- VII. **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)
- VIII. **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)
- IX. **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., Aydın S., et al.  
Bulletin of Earthquake Engineering, vol.19, no.9, pp.3415-3459, 2021 (SCI-Expanded)
- X. **Fault-based probabilistic seismic hazard assessment of the eastern Makran subduction and the Chaman transform fault, Pakistan: Emphasis on the source characterization of megathrust**  
Shah S. T., ÖZACAR A. A., GÜLERCE Z.  
Journal of Asian Earth Sciences, vol.205, 2021 (SCI-Expanded)
- XI. **Ground Motion Characterization for Vertical Ground Motions in Turkey—Part 2: Vertical Ground Motion Models and the Final Logic Tree**  
GÜLERCE Z., Alipour N., SANDIKKAYA M. A.  
Pure and Applied Geophysics, vol.177, no.5, pp.2105-2123, 2020 (SCI-Expanded)
- XII. **Ground Motion Characterization for Vertical Ground Motions in Turkey—Part 1: V/H Ratio Ground Motion Models**  
Alipour N., SANDIKKAYA M. A., GÜLERCE Z.  
Pure and Applied Geophysics, vol.177, no.5, pp.2083-2104, 2020 (SCI-Expanded)
- XIII. **Evaluation of the site amplification factors estimated by equivalent linear site response analysis using time series and random vibration theory based approaches**  
Stanko D., GÜLERCE Z., Markusic S., Salic R.  
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.117, pp.16-29, 2019 (SCI-Expanded)

- XIV. **Experimental evaluation of geomembrane/geotextile interface as base isolating system**  
Kalpakci V., Bonab A. T., ÖZKAN M. Y., GÜLERCE Z.  
GEOSYNTHETICS INTERNATIONAL, vol.25, no.1, pp.1-11, 2018 (SCI-Expanded)
- XV. **Planar seismic source characterization models developed for probabilistic seismic hazard assessment of Istanbul**  
GÜLERCE Z., Soyman K. B., Guner B., KAYMAKCI N.  
NATURAL HAZARDS AND EARTH SYSTEM SCIENCES, vol.17, no.12, pp.2365-2381, 2017 (SCI-Expanded)
- XVI. **Probabilistic Seismic-Hazard Assessment for East Anatolian Fault Zone Using Planar Fault Source Models**  
GÜLERCE Z., SHAH S. T., MENEKŞE A., Ozacar A. A., Kaymakci N., ÇETİN K. Ö.  
BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, vol.107, no.5, pp.2353-2366, 2017 (SCI-Expanded)
- XVII. **BSHAP seismic source characterization models for the Western Balkan region**  
MIHALJEVIĆ J., ZUPANČIĆ P., KUKA N., KALUDEROVIĆ N., KOČI R., MARKUŠIĆ S., ŠALIĆ R., DUSHI E., BEGU E., DUNI L., et al.  
BULLETIN OF EARTHQUAKE ENGINEERING, vol.15, no.10, pp.3963-3985, 2017 (SCI-Expanded)
- XVIII. **Probabilistic seismic hazard assessment for sliding displacement of slopes: an application in Turkey**  
GÜLERCE Z., BALAL O.  
BULLETIN OF EARTHQUAKE ENGINEERING, vol.15, no.7, pp.2737-2760, 2017 (SCI-Expanded)
- XIX. **Ground Motion Prediction Equations for the Vertical Ground Motion Component Based on the NGA-W2 Database**  
GÜLERCE Z., KAMAİ R., Abrahamson N. A., Silva W. J.  
EARTHQUAKE SPECTRA, vol.33, no.2, pp.499-528, 2017 (SCI-Expanded)
- XX. **Reply to "Comment to BSHAP project strong ground motion database and selection of suitable ground motion models for the Western Balkan Region" by Carlo Cauzzi and Ezio Faccioli**  
SALIĆ R., SANDIKKAYA M. A., MILUTINOVIĆ Z., GÜLERCE Z., DUNI L., KOVACEVIĆ V., MARKUŠIĆ S., MIHALJEVIĆ J., KUKA N., Kaludjerovic N., et al.  
BULLETIN OF EARTHQUAKE ENGINEERING, vol.15, no.4, pp.1349-1353, 2017 (SCI-Expanded)
- XXI. **BSHAP project strong ground motion database and selection of suitable ground motion models for the Western Balkan Region**  
SALIĆ R., SANDIKKAYA M. A., MILUTINOVIĆ Z., GÜLERCE Z., DUNI L., KOVACEVIĆ V., MARKUŠIĆ S., MIHALJEVIĆ J., KUKA N., KALUDJEROVIĆ N., et al.  
BULLETIN OF EARTHQUAKE ENGINEERING, vol.15, no.4, pp.1319-1343, 2017 (SCI-Expanded)
- XXII. **Turkey-Adjusted NGA-W1 Horizontal Ground Motion Prediction Models**  
GÜLERCE Z., KARGIOĞLU B., Abrahamson N. A.  
EARTHQUAKE SPECTRA, vol.32, no.1, pp.75-100, 2016 (SCI-Expanded)
- XXIII. **An updated and unified earthquake catalogue for the Western Balkan Region**  
MARKUŠIĆ S., GÜLERCE Z., KUKA N., DUNI L., IVANČIĆ I., RADOVANOVIĆ S., GLAVATOVIĆ B., MILUTINOVIĆ Z., Akkar S., KOVACEVIĆ S., et al.  
BULLETIN OF EARTHQUAKE ENGINEERING, vol.14, no.2, pp.321-343, 2016 (SCI-Expanded)
- XXIV. **Effect of Seismic Source Model Parameters on the Probabilistic Seismic-Hazard Assessment Results: A Case Study for the North Anatolian Fault Zone**  
Guelerce Z., VAKİLİNEZHAD M.  
BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, vol.105, no.5, pp.2808-2822, 2015 (SCI-Expanded)
- XXV. **Probabilistic seismic hazard assessment of Eastern Marmara Region**  
GÜLERCE Z., Ocak S.  
BULLETIN OF EARTHQUAKE ENGINEERING, vol.11, no.5, pp.1259-1277, 2013 (SCI-Expanded)
- XXVI. **The NGA-W1 Vertical-to-Horizontal Spectral Acceleration Ratio Prediction Equations Adjusted for Turkey**  
GÜLERCE Z., AKYÜZ E.  
SEISMOLOGICAL RESEARCH LETTERS, vol.84, no.4, pp.678-687, 2013 (SCI-Expanded)
- XXVII. **Using a performance-based earthquake engineering (PBEE) approach to estimate structural**

### **performance targets for bridges**

Gulerce Z.

HANDBOOK OF SEISMIC RISK ANALYSIS AND MANAGEMENT OF CIVIL INFRASTRUCTURE SYSTEMS, pp.536-560, 2013 (SCI-Expanded)

XXVIII. **Seismic demand models for probabilistic risk analysis of near fault vertical ground motion effects on ordinary highway bridges**

Gulerce Z., ERDURAN E., Kunnath S. K., Abrahamson N. A.

EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.41, no.2, pp.159-175, 2012 (SCI-Expanded)

XXIX. **Site-Specific Design Spectra for Vertical Ground Motion**

GÜLERCE Z., Abrahamson N. A.

EARTHQUAKE SPECTRA, vol.27, no.4, pp.1023-1047, 2011 (SCI-Expanded)

XXX. **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)

XXXI. **Vector-Valued Probabilistic Seismic Hazard Assessment for the Effects of Vertical Ground Motions on the Seismic Response of Highway Bridges**

GÜLERCE Z., Abrahamson N. A.

EARTHQUAKE SPECTRA, vol.26, no.4, pp.999-1016, 2010 (SCI-Expanded)

### **Books & Book Chapters**

I. **Geotechnical Reconnaissance Findings**

ÇETİN K. Ö., Ziotopoulou K., Mylonakis G., Klimis N., YILMAZ M. T., GÜLERCE Z., CAN G., ILGAÇ M., ÇAKIR E., SÖYLEMEZ B., et al.

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.179-224, 2020

II. **Probabilistic Seismic Hazard Assessment of Seismically Induced Landslide for Bakacak-Duzce Region**

BALAL O., GÜLERCE Z.

in: ENGINEERING GEOLOGY FOR SOCIETY AND TERRITORY VOL 2 LANDSLIDE PROCESSES, Lollino G, Giordani D, Crosta GB, Corominas J, Azzam R, Wasowski J, Sciarra N, Editor, SPRINGER INT PUBLISHING AG, pp.681-684, 2015

III. **Using a performance-based earthquake engineering (PBEE) approach to estimate structural performance targets for bridges**

Gülerce Z.

in: Handbook of Seismic Risk Analysis and Management of Civil Infrastructure Systems, S. Tesfamariam, K. Goda, Editor, Woodhead Publishing Limited, Oxford, pp.536-560, 2013

### **Refereed Congress / Symposium Publications in Proceedings**

I. **Applicability of Site Amplification Models for Hard Rock Site Conditions**

Kanun O., GÜLERCE Z., PEKCAN O.

7th International Conference on Earthquake Engineering and Seismology, ICEES 2023, Antalya, Turkey, 6 - 10 November 2023, vol.401 LNCE, pp.319-328

II. **Ege Denizi Kıyıları İçin Sismik Tsunami Tehlike Analizi: Olasılıksal Yaklaşım**

DOĞAN G. G., YALÇINER A. C., ÖZACAR A. A., GÜLERCE Z., TÜFEKÇİ ENGİNAR D., SÜZEN M. L., KARAKÜTÜK B., OKAY H. B., KANUN O., PEKCAN O., et al.

10. Kıyı Mühendisliği Sempozyumu, İzmir, Turkey, 16 - 17 November 2023

III. **Fault Based Tsunami Generation and Hazard Analysis: A Probabilistic Study for Aegean Coasts of Türkiye**

DOĞAN G. G., YALÇINER A. C., ÖZACAR A. A., GÜLERCE Z., TÜFEKÇİ ENGİNAR D., SÜZEN M. L., Kanun O., PEKCAN O., YÜCEMEN M. S.

EGU General Assembly 2023, Viyana, Austria, 23 - 28 April 2023

- IV. **A Case Study: Dynamic Analyses of Barrette Foundations under a Pipe Rack in a High Seismicity Region**  
Akbaş B., Kanun O., Unutmaz B., Gülerce Z., Toker N. K.  
3rd European Conference on Earthquake Engineering and Seismology, Bucuresti, Romania, 4 September - 09 October 2022, pp.1-9
- V. **Estimation Of High-Frequency Attenuation Parameter (Kappa) For Hard Rock Stations Of Turkish Strong Motion Network**  
Akgün A. Ö., Gülerce Z., Özacar A. A.  
European Geosciences Union General Assembly 2021, Vienna, Austria, 19 - 30 April 2021
- VI. **Fault-based Probabilistic Seismic Hazard Assessment of the Makran Subduction Zone and the Chaman Transform Fault in Pakistan: Emphasis on the Effect of Source Characterization of Megathrust**  
Shah S. T., ÖZACAR A. A., GÜLERCE Z.  
EGU General Assembly 2019, 7 - 12 April 2019
- VII. **Preliminary ground motion model for subduction earthquakes based on NGA-Sub Japan database**  
GÜLERCE Z., ABRAHAMSON N. A.  
11th National Conference in Earthquake Engineering, 24 - 28 June 2018
- VIII. **Seismic demand models for estimating the pseudo-static factor of safety for slope failure**  
AKBAŞ B., GÜLERCE Z., KALPAKCI V., SÜZEN M. L.  
16th European Conference on Earthquake Engineering, 18 - 21 June 2018
- IX. **Harmonized Seismic Hazard Maps for the Western Balkan Countries**  
SALIC R., GÜLERCE Z., KUKA N., MARKUSIC S., MIHALJEVIC J., KOVACEVIC V., SANDIKKAYA M. A., MILUTINOVIC Z., DUNIL L., STANKO D., et al.  
16th European Conference on Earthquake Engineering (16ECEE), 18 - 21 June 2018
- X. **Empirical Prediction Models for the Seismic Response of Pile Foundations**  
UNUTMAZ B., GÜLERCE Z., SANDIKKAYA M. A., TOKER N. K.  
16th European Conference on Earthquake Engineering (16ECEE), 18 - 21 June 2018
- XI. **Developing site-specific vertical ground motions for Turkey Part 1: using V/H ratio ground motion models**  
GÜLERCE Z., SANDIKKAYA M. A., AGHAALIPOUR N.  
2nd Workshop on Best PSHANI 2018, 14 - 18 May 2018
- XII. **GÖKOVA FAY ZONU İÇİN DÜZLEMSEL SİSMİK KAYNAK MODELİ**  
GÜLERCE Z., KAYMAKCI N., KALAFAT D., TAYMAZ T.  
71. Uluslararası Katılımlı Türkiye Jeoloji Kurultayı, Ankara, Turkey, 23 - 27 April 2018, pp.87-88
- XIII. **Procedure for fault-based PSHA in complex tectonic regimes (eg Western Anatolia): Implications of activity rate characterization**  
Shah S. T., ÖZACAR A. A., GÜLERCE Z.  
European Geosciences Union General Assembly 2018, 8 - 13 April 2018
- XIV. **Nga-subduction research program**  
Bozorgnia Y., Kishida T., Abrahamson N. A., Ahdi S. K., Ancheta T. D., Archuleta R. J., Atkinson G., Boore D. M., Campbell K. W., Chiou B., et al.  
11th National Conference on Earthquake Engineering 2018: Integrating Science, Engineering, and Policy, NCEE 2018, California, United States Of America, 25 - 29 June 2018, vol.1, pp.448-451
- XV. **Use of Regional Strong Ground Motion Datasets for Selecting and Weighing Ground Motion Models for Probabilistic Seismic Hazard Assessment.**  
GÜLERCE Z.  
The 37th International Workshop on Seismicity and Seismic Hazard Mitigation in the Extended Mediterranean Region, 4 - 07 December 2017

- XVI. **Kuzey Anadolu Fay Hattı Marmara Bölümü için Fay Bazlı Düzlemsel Sismik Kaynak Modeli ile Sismik Tehlike Analizi**  
SOYMAN K. B., GÜNER B., GÜLERCE Z., KAYMAKCI N.  
4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, 11 - 13 October 2017
- XVII. **Türkiye Kuvvetli Yer Hareketi Veri Tabanının Genişletilmesi: Bir Ön Çalışma**  
SANDIKKAYA M. A., AGHALIPOUR N., GÜLERCE Z.  
4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, 11 - 13 October 2017
- XVIII. **Preliminary Estimation of Kappa Parameter in Croatia**  
Stanko D., Markusic S., Ivancic I., Mario G., GÜLERCE Z.  
3rd World Multidisciplinary Earth Sciences Symposium (WMESS), Prague, Czech Republic, 11 - 15 September 2017, vol.95
- XIX. **Testing the Suitability of Global Ground Motion Models for the Western Balkan Region**  
GÜLERCE Z., SALIC R., SANDIKKAYA M. A., MILUTINOVIC Z.  
SSA Annual Meeting, 18 - 20 April 2017
- XX. **Selection of Ground Motion Prediction Equations for Probabilistic Seismic Hazard Assessments of the Izmit Bay Bridge**  
Li Destri Nicosia G., GÜLERCE Z.  
35th General Assembly of the European Seismological Commission, 5 - 09 September 2016
- XXI. **Estimating the Liquefaction Related Geotechnical Hazards in Probabilistic Seismic Hazard Assessment Framework**  
GÜLERCE Z., Yıldızlı B.  
1st International Conference on Natural Hazards & Infrastructure (ICONHIC 2016), 26 - 28 June 2016
- XXII. **Modelling the Dynamic Response of Pile Foundations in Performance Based Geotechnical Engineering Framework**  
UNUTMAZ B., GÜLERCE Z.  
1st International Conference on Natural Hazards & Infrastructure (ICONHIC 2016), 26 - 28 June 2016
- XXIII. **Probabilistic Seismic Hazard Assessment for East Anatolian Fault Zone Using Planar Source Models**  
GÜLERCE Z., Menekşe A., ÖZACAR A. A., ÇETİN K. Ö., Kaymakçı N.  
2016 Annual Meeting of Seismological Society of America, 19 - 21 April 2016
- XXIV. **Estimating the Earthquake Induced Landslide Hazard in Vector Valued Probabilistic Seismic Hazard Assessment Framework**  
BALAL O., GÜLERCE Z.  
6th International Conference on Earthquake Geotechnical Engineering (6th ICEGE), 1 - 04 November 2015
- XXV. **Harmonization of the Seismic Hazard Maps of the Western Balkan Region Project Earthquake Catalogue and Strong Ground Motion Database**  
GÜLERCE Z., Salic R., Markusic S., Kovacevic V., Mihaljevic J., Kuka N.  
36th International Workshop of the Reducing Earthquake Losses in the Extended Mediterranean Region programme (RELEMR), 26 - 29 October 2015
- XXVI. **Kuzey Anadolu ve Doğu Anadolu Fay Zonu için Deprem Tekrarlanma Parametrelerinin Belirlenmesi**  
Güner B., Menekşe A., ÖZACAR A. A., GÜLERCE Z.  
3. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı, Turkey, 14 - 16 October 2015
- XXVII. **Vertical GMPEs Based on the NGA W2 Database**  
GÜLERCE Z., Kamai R., Abrahamson N. A., Silva W. J.  
2015 Annual Meeting of Seismological Society of America, 21 - 23 April 2015
- XXVIII. **Probabilistic Seismic Hazard Assessment of Seismically Induced Landslide for Bakacak-Duzce Region**  
Balal O., GÜLERCE Z.  
12th International IAEG Congress, Torino, Italy, 15 - 19 September 2014, pp.681-684
- XXIX. **Geotechnical Field Observations from 23 October 2011 Van Earthquake (Mw=7.1)**  
Gülerce Z., Çetin K. Ö., Yılmaz M. T., Huvaj Sarihan N., Ünsever Y. S., Ünsal S., Sağlam S., Sandikkaya M. A., Türkoğlu M.  
10th International Congress on Advances in Civil Engineering (ACE2012), Ankara, Turkey, 17 - 19 October 2012, vol.1, pp.1-9

## Other Publications

- Regionalized Ground-Motion Models for Subduction Earthquakes Based on the NGA-SUB Database**  
Abrahamson N., Gülerce Z.  
Technical Report, pp.1-241, 2020

## Supported Projects

- Gülerce Z., TUBITAK Project, Küresel Bir Fourier Genlik Spektrumu Tahmin Modelinin Türkiye Veri Tabanı ile Uyumlu Hale Getirilmesi, 2021 - 2022
- GÜLERCE Z., SÜZEN M. L., AKBAŞ B., Project Supported by Higher Education Institutions, Depremle Tetiklenen Heyelanlar İçin Olasılıksal Sismik Tepki Modellerinin Geliştirilmesi, 2020 - 2022
- GÜLERCE Z., YILAR E., Project Supported by Higher Education Institutions, Kuvvetli Yer Hareketlerindeki Belirsizliğin Nükleer Güç Santrallerinin Yapı Zemin Etkileşimine Etkisinin İncelenmesi, 2017 - 2019
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## Scientific Refereeing

BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, SCI Journal, January 2019

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## Non Academic Experience

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