

Prof. KEMAL ÖNDER ÇETİN

Personal Information

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International Researcher IDs

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Education Information

Doctorate, University of California, Berkeley, İnşaat-Geoteknik-Deprem Müh., United States Of America 1997 - 2000

Postgraduate, Middle East Technical University, Graduate School of Social Sciences, İşletme (YI) (Tezli), Turkey 1994 - 2000

Postgraduate, University of California, Berkeley, College of Engineering, Civil and Environmental Engineering, United States Of America 1996 - 1997

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1990 - 1994

Foreign Languages

English, C1 Advanced

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2009 - Continues
Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2004 - 2009

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, 2000 - 2004

Research Assistant, University of California, Berkeley, Mühendislik Fakültesi, İnşaat Mühendisliği, 1997 - 2000

Academic and Administrative Experience

Middle East Technical University, Presidency Office, 2012 - 2013

Middle East Technical University, Faculty of Engineering, 2006 - 2009

Courses

GROUND IMPROVEMENT, Undergraduate, 2023 - 2024, 2018 - 2019, 2016 - 2017, 2015 - 2016, 2011 - 2012
FOUNDATION ENGINEERING I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002
Foundation Engineering 2, Undergraduate, 2022 - 2023, 2013 - 2014, 2010 - 2011
SOIL MECHANICS, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2008 - 2009, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001
Geotechnical Earthquake Engineering, Postgraduate, 2023 - 2024, 2019 - 2020, 2017 - 2018, 2015 - 2016, 2013 - 2014, 2011 - 2012, 2009 - 2010
Numerical Modeling in Geomechanics, Doctorate, 2022 - 2023, 2020 - 2021, 2018 - 2019, 2014 - 2015, 2010 - 2011
Deep excavations and Retaining Structures, Postgraduate, 2019 - 2020, 2016 - 2017
GEOTECHNICAL DESIGN, Undergraduate, 2017 - 2018, 2016 - 2017
Seismic Hazard Assessment, Doctorate, 2014 - 2015, 2012 - 2013, 2009 - 2010

Advising Theses

ÇETİN K. Ö., The assessment of deep excavation performance of a high rise residential complex, in Bayraklı, İzmir, Postgraduate, A.MERT(Student), 2022
ÇETİN K. Ö., CPT-BASED PROBABILISTIC ASSESSMENT OF SEISMIC SOIL LIQUEFACTION TRIGGERING RELATIONSHIPS, Doctorate, G.CAN(Student), 2022
ÇETİN K. Ö., The assessment of seismic site effects during the 24 January 2020 Elazığ-Sivrice Mw: 6.8 earthquake, Postgraduate, A.MOHAMED(Student), 2022
ÇETİN K. Ö., Probability-based assessment of post-liquefaction shear strength: An effective stress approach, Postgraduate, S.BUĞRAHAN(Student), 2022
ÇETİN K. Ö., SPT-based probabilistic assessment of seismic soil liquefaction triggering, Doctorate, M.ILGAÇ(Student), 2022
ÇETİN K. Ö., Shear and volumetric straining response of Çine sand, Postgraduate, A.CAN(Student), 2021
ÇETİN K. Ö., Numerical assessment of tunnel advancement in problematic soil conditions: A case study, Postgraduate, A.GÜNEŞ(Student), 2021
ÇETİN K. Ö., The effects of hammer-rod alignment and rod length on SPT hammer efficiency, Postgraduate, M.EFEKAN(Student), 2021
ÇETİN K. Ö., Shearing and volumetric straining response of Kızılrnak sand, Postgraduate, E.Çakır(Student), 2020
ÇETİN K. Ö., Performance based assessment of number of equivalent uniform cyclic stress scheme, Postgraduate, E.Altıncı(Student), 2019
ÇETİN K. Ö., Consolidated undrained shearing response of hydrophobic sands, Postgraduate, H.MELİH(Student), 2018
ÇETİN K. Ö., A comparative assessment of seismic soil liquefaction triggering relationships, Postgraduate, M.ILGAÇ(Student), 2015
ÇETİN K. Ö., Assessing the effects of confining stress state on the mobilization of axial compressive resistance for a single aggregate pier/, Postgraduate, A.DOĞAN(Student), 2014
ÇETİN K. Ö., Effective stress based constitutive modelling and assessment of seismic pile-soil interaction in liquefiable soils, Doctorate, S.ÜNSAL(Student), 2014
ÇETİN K. Ö., Numerical assessment of negative skin friction effects on diaphragm walls, Postgraduate, C.GENÇOĞLU(Student), 2013
ÇETİN K. Ö., KURÇ Ö., Parallel solution of soil-structure interaction problems on PC clusters, Postgraduate, T.BAHÇECİOĞLU(Student), 2011
ÇETİN K. Ö., Sıvılaşmayla ilişkili yanal yayılma yer değiştirmesinin kestirimi, Doctorate, N.HASANÇEBİ(Student), 2011
ÖZKAN M. Y., ÇETİN K. Ö., An experimental study on the behavior of box-shaped culverts buried in sand under dynamic

excitations, Doctorate, D.Ülgen(Student), 2011

ÇETİN K. Ö., Cyclic volumetric and shear strain responses of fine-grained soils, Doctorate, H.TOLGA(Student), 2010

ÇETİN K. Ö., GIS based seismic hazard mapping of Turkey, Doctorate, A.ANIL(Student), 2010

ÇETİN K. Ö., Assessment of the ground subsidence and lining forces due to tunnel advancement, Postgraduate, Ö.KARAMANLI(Student), 2009

ÇETİN K. Ö., A comparative assessment of available methods for seismic performance evaluation of buried structures, Postgraduate, A.GÜNEY(Student), 2009

ÇETİN K. Ö., A comparative assessment of available methods for seismic performance evaluation of buried structures, Postgraduate, A.Güney(Student), 2009

ÇETİN K. Ö., Assessment of liquefaction susceptibility of fine grained soils, Postgraduate, M.PEHLİVAN(Student), 2009

ÇETİN K. Ö., An integrated seismic hazard framework for liquefaction triggering assessment of earthfill dams' foundation soils, Postgraduate, S.ÜNSAL(Student), 2009

ÇETİN K. Ö., Assessment of soil structure earthquake interaction induced soil liquefaction triggering, Doctorate, B.UNUTMAZ(Student), 2008

ÇETİN K. Ö., Probabilistic assessment of liquefaction-induced lateral ground deformations, Doctorate, W.Mohammad(Student), 2005

ÇETİN K. Ö., Gis-based structural performance assessment of Sakarya city after 1999 Kocaeli-Turkey earthquake from geotechnical and earthquake engineering point of view, Postgraduate, Z.YILMAZ(Student), 2004

ÇETİN K. Ö., Cpt based compressibility assessment of soils, Postgraduate, F.Özkahriman(Student), 2004

ÇETİN K. Ö., Effects of soil structure interaction and base isolated systems on seismic performance of foundation soils, Postgraduate, S.Soyöz(Student), 2004

ÇETİN K. Ö., SUCUOĞLU H., Effects of soil structure interaction and base isolated systems on seismic performance of foundation soils, Postgraduate, S.SOYÖZ(Student), 2004

ÇETİN K. Ö., Seismic behavior of embankment dams, Postgraduate, F.MEHMET(Student), 2003

ÇETİN K. Ö., Estimation of grain characteristics of soils by using cone penetration test (CPT) data, Postgraduate, C.OZAN(Student), 2003

ÇETİN K. Ö., Çetin K., Assessment of buried pipeline performance during the 1999 Duzce Earthquake, Postgraduate, V.Yargıcı(Student), 2003

ÇETİN K. Ö., 3-D soil structure interaction analyses of three identical buildings in Sakarya city after 17 August 1999 Kocaeli earthquake, Postgraduate, O.ÜNAL(Student), 2003

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Performance of hydraulic structures during 6 February 2023 Kahramanmaraş, Türkiye, earthquake sequence**
ÇETİN K. Ö., Cuceoglu F., Ayhan B. U., YILDIRIM ESEN S., Aydin S., Demirdogen S., Er Y., GÜRBÜZ A., Moss R. E. S. Earthquake Spectra, vol.40, no.4, pp.2231-2267, 2024 (SCI-Expanded)
- II. **Evaluation of soil liquefaction in the city of Hatay triggered after the February 6, 2023 Kahramanmaraş-Türkiye earthquake sequence**
Bol E., Özocak A., Sert S., ÇETİN K. Ö., Arslan E., Kocaman K., Ayhan B. U. Engineering Geology, vol.339, 2024 (SCI-Expanded)
- III. **Event-based regional model of liquefaction susceptibility in Amik, Gölbaşı and Kahramanmaraş Basins after the February 6, 2023 Earthquakes**
Karakas V. E., Yildiz I., Can R., KOCAMAN GÖKÇEOĞLU S., ÇETİN K. Ö., GÖKÇEOĞLU C. Engineering Geology, vol.339, 2024 (SCI-Expanded)
- IV. **Liquefaction ground deformations and cascading coastal flood hazard in the 2023 Kahramanmaraş earthquake sequence**
Bassal P., Papageorgiou E., Moug D. M., Bray J. D., ÇETİN K. Ö., Şahin A., Kubatko E. J., Nepal S., Toth C., Kendir S. B., et al. Earthquake Spectra, vol.40, no.3, pp.1845-1869, 2024 (SCI-Expanded)

- V. **The performance of Karasu Bridge following the February 6, 2023 Kahramanmaras-Turkiye earthquake sequence**
Ozkaynak M. I., ÇETİN K. Ö.
Engineering Geology, vol.335, 2024 (SCI-Expanded)
- VI. **Liquefaction at two petrochemical facilities during the February 6, 2023, Kahramanmaras-Turkiye earthquake sequence**
Sahin A., ÇETİN K. Ö.
Engineering Geology, vol.335, 2024 (SCI-Expanded)
- VII. **Liquefaction-induced ground and building interactions in İskenderun from the 2023 Kahramanmaraş earthquake sequence**
Moug D. M., Bray J. D., Bassal P., Macedo J., Ulmer K., ÇETİN K. Ö., Kendir S. B., Şahin A., Arnold C., Bikçe M.
Earthquake Spectra, vol.40, no.2, pp.913-938, 2024 (SCI-Expanded)
- VIII. **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)
- IX. **Duration Characteristics of Strong Ground Motions Recorded during the 6 February 2023 M 7.8 Pazarcık, Kahramanmaraş, Türkiye, Earthquake**
Elsaid A., ÇETİN K. Ö.
Seismological Research Letters, vol.95, no.2 A, pp.720-729, 2024 (SCI-Expanded)
- X. **Liquefaction and performance of foundation systems in Iskenderun during 2023 Kahramanmaras-Turkiye earthquake sequence**
ÖZENER P., Monkul M. M., Bayat E. E., ARI A., ÇETİN K. Ö.
Soil Dynamics and Earthquake Engineering, vol.178, 2024 (SCI-Expanded)
- XI. **Liquefaction triggering and induced ground deformations at a metallurgical facility in Doğruyol-Hatay after the February 6 Kahramanmaras, earthquake sequence**
Çakir E., Cetin K. Ö.
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.178, 2024 (SCI-Expanded)
- XII. **Geospatial Liquefaction Modeling of the 2023 Türkiye Earthquake Sequence by an Ensemble of Global, Continental, Regional, and Event-Specific Models**
Asadi A., Sanon C., ÇAKIR E., Zhan W., Shirzadi H., Baise L. G., ÇETİN K. Ö., Moaveni B.
Seismological Research Letters, vol.95, no.2 A, pp.697-719, 2024 (SCI-Expanded)
- XIII. **Soil liquefaction sites following the February 6, 2023, Kahramanmaraş-Türkiye earthquake sequence**
ÇETİN K. Ö., SÖYLEMEZ B., Guzel H., ÇAKIR E.
Bulletin of Earthquake Engineering, 2024 (SCI-Expanded)
- XIV. **Geotechnical and geological reconnaissance observations of the 6 February 2023 Türkiye earthquakes**
Moss R. E., ALTUNEL E., Bassal P., Bray J. D., Buckreis T. E., ÇETİN K. Ö., Clahan K., Duman E., Frost D., Hashash Y., et al.
Earthquake Spectra, 2024 (SCI-Expanded)
- XV. **Seismic site effect models for the Turkiye-Izmir-Bayrakli Basin**
ÇETİN K. Ö., ÇAKIR E., Zarzour M.
Bulletin of Earthquake Engineering, vol.22, no.2, pp.303-328, 2024 (SCI-Expanded)
- XVI. **Ground failures and foundation performances in Adıyaman-Gölbası following the 6 February 2023 Kahramanmaraş-Türkiye Earthquake Sequence**
ÇETİN K. Ö., Moug D., SÖYLEMEZ B., Ayhan B. U., Zarzour M., Suhaily A. A., Akil B., UNUTMAZ B., FIRAT S., TEKİN E., et al.
Earthquake Spectra, 2024 (SCI-Expanded)
- XVII. **Liquefaction-Induced Failure of Demirköprü Bridge Pile Foundation and Retaining System Following the February 6 Kahramanmaraş Earthquake Sequence**
Ocak S., ÇETİN K. Ö.

- Journal of Earthquake Engineering, 2024 (SCI-Expanded)
- XVIII. **2-D and 3-D basin site effects in Izmir-Bayrakli during the October 30, 2020 M_w7.0 Samos earthquake**
ÇETİN K. Ö., Zarzour M., ÇAKIR E., Tuna S. C., Altun S.
BULLETIN OF EARTHQUAKE ENGINEERING, vol.21, no.12, pp.5419-5442, 2023 (SCI-Expanded)
- XIX. **Probabilistic Assessment of Standard Penetration Test Hammer Energy Efficiency and Rod Length Corrections**
ÇETİN K. Ö., Cevik M. E., Al-Suhaily A., Yunatci A. A.
Journal of Geotechnical and Geoenvironmental Engineering, vol.149, no.8, 2023 (SCI-Expanded)
- XX. **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)
- XXI. **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)
- XXII. **Preface for the Special Issue omicron n the M7.0 Samos Island (Aegean Sea) earthquake of 30th October 2020: reconnaissance missions and first observations**
Sextos A., ÇETİN K. Ö., Mylonakis G., Stewart J. P.
BULLETIN OF EARTHQUAKE ENGINEERING, vol.20, no.14, pp.7705-7706, 2022 (SCI-Expanded)
- XXIII. **Reconnaissance of 2020 M 7.0 Samos Island (Aegean Sea) earthquake**
ÇETİN K. Ö., Mylonakis G., Sextos A., Stewart J. P.
BULLETIN OF EARTHQUAKE ENGINEERING, vol.20, no.14, pp.7707-7712, 2022 (SCI-Expanded)
- XXIV. **Large Scale Direct Shear Box Tests on Gravels**
Yunatci A. A., ÇETİN K. Ö.
TEKNIK DERGI, vol.33, no.1, pp.11617-11623, 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. **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)
- XXVII. **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)
- XXVIII. **Probability-based assessment of number of equivalent uniform stress cycles**
ÇETİN K. Ö., Altinci E., Bilge H. T.
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.143, 2021 (SCI-Expanded)
- XXIX. **Probabilistic assessments of void ratio limits and their range for cohesionless soils**
ÇETİN K. Ö., ILGAÇ M.
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.142, 2021 (SCI-Expanded)
- XXX. **Consolidated Undrained Monotonic Shearing Response of Hydrophobic Kizilirmak Sand**
Tatar H. M., ÇETİN K. Ö.
TEKNIK DERGI, vol.32, no.2, pp.10675-10694, 2021 (SCI-Expanded)

- XXXI. **Next-generation liquefaction database**
Brandenberg S. J., Zimmaro P., Stewart J. P., Kwak D. Y., Franke K. W., Moss R. E. S., ÇETİN K. Ö., CAN G., ILGAÇ M., Stamatakos J., et al.
EARTHQUAKE SPECTRA, vol.36, no.2, pp.939-959, 2020 (SCI-Expanded)
- XXXII. **SPT-based probabilistic and deterministic assessment of seismic soil liquefaction triggering hazard**
ÇETİN K. Ö., Seed R. B., Kayen R. E., Moss R. E. S., Bilge H. T., ILGAÇ M., Chowdhury K.
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.115, pp.698-709, 2018 (SCI-Expanded)
- XXXIII. **Examination of differences between three SPT-based seismic soil liquefaction triggering relationships**
ÇETİN K. Ö., Seed R. B., Kayen R. E., Moss R. E. S., Bilge H. T., ILGAÇ M., Chowdhury K.
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.113, pp.75-86, 2018 (SCI-Expanded)
- XXXIV. **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)
- XXXV. **Seismic response of hunchbacked block type gravity quay walls**
Yüksel Z. T., YÜKSEL Y., ÇETİN K. Ö., ÇEVİK E.
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.101, pp.225-233, 2017 (SCI-Expanded)
- XXXVI. **Closure to "Shear-Wave Velocity-Based Probabilistic and Deterministic Assessment of Seismic Soil Liquefaction Potential"**
Kayen R., Moss R. E. S., Thompson E. M., Seed R. B., Cetin K. Ö., Der Kiureghian A., Tanaka Y., Tokimatsu K.
JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.140, no.4, 2014 (SCI-Expanded)
- XXXVII. **Shear-Wave Velocity-Based Probabilistic and Deterministic Assessment of Seismic Soil Liquefaction Potential**
Kayen R., Moss R. E. S., Thompson E. M., Seed R. B., ÇETİN K. Ö., Kiureghian A. D., Tanaka Y., Tokimatsu K.
JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.139, no.3, pp.407-419, 2013 (SCI-Expanded)
- XXXVIII. **Assessment of seismic soil liquefaction triggering beneath building foundation systems**
ÇETİN K. Ö., UNUTMAZ B., Jeremic B.
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.43, pp.160-173, 2012 (SCI-Expanded)
- XXXIX. **Post-cyclic settlement and tilting potential of mat foundations**
UNUTMAZ B., ÇETİN K. Ö.
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.43, pp.271-286, 2012 (SCI-Expanded)
- XL. **Performance-Based Assessment of Magnitude (Duration) Scaling Factors**
ÇETİN K. Ö., Bilge H. T.
JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.138, no.3, pp.324-334, 2012 (SCI-Expanded)
- XLI. **Cyclic Large Strain and Induced Pore Pressure Models for Saturated Clean Sands**
ÇETİN K. Ö., Bilge H. T.
JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.138, no.3, pp.309-323, 2012 (SCI-Expanded)
- XLII. **Soil Uncertainty and Its Influence on Simulated $G=G(\max)$ and Damping Behavior**
Sett K., UNUTMAZ B., ÇETİN K. Ö., Koprivica S., Jeremic B.
JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.137, no.3, pp.218-226, 2011 (SCI-Expanded)
- XLIII. **Closure to "CPT-Based Probabilistic Soil Characterization and Classification" by K. Onder Cetin and Cem Ozan**
ÇETİN K. Ö., Ozan C.
JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.136, no.3, pp.544-546, 2010 (SCI-Expanded)
- XLIV. **Probabilistic Models for Cyclic Straining of Saturated Clean Sands**

- ÇETİN K. Ö., BİLGE H. T., Wu J., Kammerer A. M., Seed R. B.
 JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.135, no.3, pp.371-386, 2009 (SCI-Expanded)
- XLV. **Probabilistic Model for the Assessment of Cyclically Induced Reconsolidation (Volumetric Settlements)**
 ÇETİN K. Ö., BİLGE H. T., Wu J., Kammerer A. M., Seed R. B.
 JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.135, no.3, pp.387-398, 2009 (SCI-Expanded)
- XLVI. **CPT-Based Probabilistic Soil Characterization and Classification**
 ÇETİN K. Ö., Ozan C.
 JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.135, no.1, pp.84-107, 2009 (SCI-Expanded)
- XLVII. **Zero-Displacement Lateral Spreads, 1999 Kocaeli, Turkey, Earthquake**
 Youd T. L., Deden D. W., Bray J. D., Sancio R., ÇETİN K. Ö., Gerber T. M.
 JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.135, no.1, pp.46-61, 2009 (SCI-Expanded)
- XLVIII. **Probabilistic assessment of stress normalization for CPT data**
 Cetin K. O., Isik N. S.
 JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.133, no.7, pp.887-897, 2007 (SCI-Expanded)
- XLIX. **Earthquake-induced liquefaction around marine structures**
 Sumer B. M., Ansal A., Cetin K. O., Damgaard J., Gunbak A. R., Hansen N. O., Sawicki A., Synolakis C. E., Yalciner A. C., Yuksel Y., et al.
 JOURNAL OF WATERWAY PORT COASTAL AND OCEAN ENGINEERING, vol.133, no.1, pp.55-82, 2007 (SCI-Expanded)
- L. **CPT-based probabilistic and deterministic assessment of in situ seismic soil liquefaction potential**
 Moss R. E. S., Seed R. B., Kayen R. E., Stewart J. P., Kiureghian A. D., Cetin K. O.
 JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.132, no.8, pp.1032-1051, 2006 (SCI-Expanded)
- LI. **Closure to "Liquefaction-induced lateral spreading at Izmit Bay during the Kocaeli (Izmit)-Turkey earthquake" by K. Onder Cetin, T. Leslie Youd, Raymond B. Seed, Jonathan D. Bray, Jonathan P. Stewart, H. Turan Durgunoglu, W. Lettis, and M. Tolga Yilmaz**
 Cetin O., Youd T. L., Seed R. B., Bray J. D., Stewart J. P., Durgunoglu H. T., Lettis W., Yilmaz M. T.
 JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.132, no.7, pp.956-959, 2006 (SCI-Expanded)
- LII. **Discussion of "Standard penetration test-based Probabilistic and deterministic assessment of seismic soil liquefaction potential" by K. Onder Cetin, Raymond B. Seed, Armen Der Kiureghian, Kohji Tokimatsu, Leslie F. Harder Jr., Robert E. Kayen, and Robert E. S. Moss**
 Luebbers M.
 JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.132, no.5, pp.667, 2006 (SCI-Expanded)
- LIII. **Closure to "Standard penetration test-based probabilistic and deterministic assessment of seismic soil liquefaction potential" by K. Onder Cetin, Raymond B. Seed, Armen Der Kiureghian, Kohji Tokimatsu, Leslie F. Harder Jr., Robert E. Kayen, and Robert E. S. Moss**
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- XLIV. **A probabilistic model for CPT-based soil classification**

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XLV. Seismic liquefaction triggering correlations within a Bayesian framework

Moss R., ÇETİN K. Ö., Seed R.

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Supported Projects

ÇETİN K. Ö., Project Supported by Higher Education Institutions, KOHEZYONSUZ ZEMINLERİN ÇİFT YÖNLÜ DÖNGÜSEL BURULMA TESTİ, 2013 - 2013

Activities in Scientific Journals

JOURNAL OF EARTHQUAKE ENGINEERING, Committee Member, 2024 - Continues

SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, Committee Member, 2004 - Continues

SEISMOLOGICAL RESEARCH LETTERS, Special Issue Editor, 2023 - 2024

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BULLETIN OF EARTHQUAKE ENGINEERING, Special Issue Editor, 2023 - 2024

SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, Special Issue Editor, 2023 - 2024

Metrics

Publication: 210

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H-Index (Scopus): 20

Invited Talks

Quick Quake Briefing: M7.0 Samos Island (Offshore Greece and Turkey) Earthquake October 30, 2020, Seminar, Earthquake Engineering Research Institute, United States Of America, August 2021

A Webinar on Reconnaissance Findings of October 30, 2020 Samos Island (Aegean Sea) M 7.0 Earthquake, Seminar, Hellenic Association of Earthquake Engineering, Earthquake Engineering Association of Turkey Earthquake Foundation of Turkey, Earthquake Engineering Research Institute (USA), Geotechnical Extreme Events Reconnaissance Association, METU-Earthquake Engineering Research Center, Turkey, January 2021

THE OCTOBER 30, 2020 AEGEAN SEA (SAMOS-SEFERIHISAR) EARTHQUAKE (MW=6.9), Seminar, Middle East Technical University, Turkey, December 2020

Bilateral Webinar between Greece & Turkey: Consequences of the Aegean Sea Mw 6.7 Earthquake, Oct. 30, 2020, on Izmir and Samos Island, Seminar, Greek Society for Concrete Research (ΕΠΕΣ) and Turkish Earthquake Foundation (TDV), Turkey, December 2020

Non Academic Experience

Orta Doğu Teknik Üniversitesi
U.C. Berkeley
DSİ