

Cenk ALHAN

Prof. Dr.



İletişim Bilgileri

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Mesleki Deneyim

Prof. Dr.	2017 - Halen İSTANBUL ÜNİVERSİTESİ, Mühendislik Fakültesi
Doç. Dr.	2013 - 2017 İSTANBUL ÜNİVERSİTESİ, Mühendislik Fakültesi
Yrd. Doç. Dr.	2006 - 2013 İSTANBUL ÜNİVERSİTESİ, Mühendislik Fakültesi
Arş. Gör.	2000 - 2003 Duke University, Mühendislik Fakültesi
Arş.Gör.	1997 - 2000 BOĞAZİÇİ ÜNİVERSİTESİ, MÜHENDİSLİK FAKÜLTESİ

Eğitim Bilgileri

Post - Doktora

2015

Ontario Canada Üniversitesi, Institute of Technology, Department of Automotive, Mechanical and Manufacturing Engineering, KANADA

Doktora

2007 - 2011

İSTANBUL ÜNİVERSİTESİ, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü

Yüksek Lisans

2000 - 2002

İSTANBUL ÜNİVERSİTESİ, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü

Lisans

1996 - 2000

YILDIZ TEKNİK ÜNİVERSİTESİ, İnşaat Fakültesi, Çevre Mühendisliği Bölümü

Projeler

- "Comparison of Ground Motion Pulse Models for the Seismic Response of Seismically Isolated Liquid Storage Tanks", BAP Diğer, BAP-2018-28620, Yönetici, Devam Ediyor
- "Performance limits of seismically isolated buildings under nearfield earthquakes", BAP Diğer, BAP-2017-24291, Yönetici, Devam Ediyor
- "Sensitivity of the seismic performance of liquid storage tanks with nonlinear isolation systems to deviations in mechanical characteristics of the seismic isolators", BAP Diğer, BEK-2017-24000, Araştırmacı, 2017
- "Ölçeklenmiş Yapı Modellerinin Testi İçin İki Eksenli Deprem Sarsma Tablasının Geliştirilmesi", TÜBİTAK Projesi, 2912901, Danışman, Devam Ediyor
- "Betonarme Tekil Temellerin Metasezgisel algoritmalar ile optimizasyonu ", BAP Diğer, FYD-2016-20042, Araştırmacı, 2017
- "Effect of soil amplification on the response of base-isolated buildings under near-fault earthquakes", BAP Diğer, BEK-2016-23445, Yönetici, 2017

- "Taban İzolasyonlu Sıvı Depolama Tanklarının Yakın-Fay Ve Uzak-Fay Depremleri Altındaki Davranışı", TÜBİTAK Projesi, 214M633, Yönetici, 2016
- "Seismic Performance Comparison of Linear and Nonlinear Viscous Dampers in Base-Isolated Buildings", BAP Diğer, 55219, Yönetici, 2016
- "Seismic Responses of Base-Isolated Buildings: Efficacy of Equivalent Linear Modeling under Near-Fault Earthquakes", BAP Diğer, 59828, Yönetici, 2017
- "Behavior of Common-Base Multiple Seismically Isolated Buildings Under Near-Fault Earthquakes", BAP Diğer, UDP-38596, Yönetici, 2014
- "Evaluation of Content Damage Ratios of Seismically Isolated Buildings under Earthquake Loading", BAP Diğer, UDP 31581, Yönetici, 2013
- "Yakın Fay Katsayılarının Betonarme Taşıyıcı Sistemlerin Deprem Performansına ve Maliyetine Etkileri", BAP Y.Lisans, 38600, Danışman, 2014
- "Sismik İzolasyonlu Binaların Deprem Yükleri Altındaki Olasılıksal Davranışı", BAP Doktora, 20206, Danışman, 2015
- "Titreşime Hassas Cihazların Korunması: Sismik İzolasyonlu Binalarda Kat İvmelerinin Araştırılması", BAP Diğer, BYP 27877, Yönetici, 2015
- "Sismik İzolasyonlu Binalardaki Doğrusal Olmayan Sıvı Viskoz Sönümleyicilerin Yakın Depremlere Karşı Etkinliği", BAP Y.Lisans, 19354, Danışman, 2013
- "Sismik İzolasyon Platformlarının Performanslarının Sismik İzolatörlerin Mekanik Özelliklerindeki Küçük Sapmalara Olan Duyarlılığı", BAP Y.Lisans, 5284, Danışman, 2011
- "Depremin Geliş Açısının Sismik İzolasyonlu Binalara Etkisi", BAP Y.Lisans, 4453, Danışman, 2010

Araştırma Alanları

- Deprem Mühendisliği
- Yapı Mekaniği
- Yapı Mühendisliği
- Yapıların Performansı

Yayınlar

- Öncü Davas S., Alhan C., "Reliability of semi-active seismic isolation under near-fault earthquakes", MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol.114, pp.146-164, 2019
- Gazi H., Alhan C., "Probabilistic sensitivity of base-isolated buildings to uncertainties", SMART STRUCTURES AND SYSTEMS, vol.22, pp.441-457, 2018

- Alhan C., Gazi H., Güler E., "Influence of isolation system characteristic strength on the earthquake behavior of base-isolated liquid storage tanks", *INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES*, vol.25, pp.346-352, 2018
- Saifullah M.K., Alhan C., "Necessity and adequacy of near-source factors for seismically isolated buildings", *EARTHQUAKES AND STRUCTURES*, vol.12, pp.91-108, 2017
- Alhan C., Öncü Davas S., "Performance limits of seismically isolated buildings under near-field earthquakes", *ENGINEERING STRUCTURES*, vol.116, pp.83-94, 2016
- Alhan C., Gazi H., Kurtuluş H., "Significance of Stiffening of High Damping Rubber Bearings on the Response of Base-Isolated Buildings under Near-Fault Earthquakes", *MECHANICAL SYSTEMS AND SIGNAL PROCESSING*, vol.79, pp.297-313, 2016
- Alhan C., Hışman K., "Seismic isolation performance sensitivity to potential deviations from design values", *SMART STRUCTURES AND SYSTEMS*, vol.18, pp.293-315, 2016
- Alhan C., Sürmeli M., "Necessity And Adequacy Of Near-Source Factors For Not-So-Tall Fixed-Base Buildings", *EARTHQUAKE ENGINEERING AND ENGINEERING VIBRATION*, vol.14, pp.13-26, 2015
- Alhan C., Ozgur M., "Seismic responses of base-isolated buildings: efficacy of equivalent linear modeling under near-fault earthquakes", *SMART STRUCTURES AND SYSTEMS*, vol.15, pp.1439-1461, 2015
- Nigdeli S.M., Bekdaş G., Alhan C., "Optimization Of Seismic Isolation Systems Via Harmony Search", *Engineering Optimization*, vol.46, pp.1553-1569, 2014
- Alhan C., Gazi H., "Bringing Probabilistic Analysis Perspective into Structural Engineering Education: Use of Monte Carlo Simulations", *INTERNATIONAL JOURNAL OF ENGINEERING EDUCATION*, vol.30, pp.1280-1294, 2014
- Alhan C., Sürmeli M., "Shear Building Representations Of Seismically Isolated Buildings", *BULLETIN OF EARTHQUAKE ENGINEERING*, vol.9, pp.1643-1671, 2011
- Alhan C., Şahin F., "Protecting Vibration-Sensitive Contents: An Investigation Of Floor Accelerations In Seismically Isolated Buildings", *BULLETIN OF EARTHQUAKE ENGINEERING*, vol.9, pp.1203-1226, 2011
- Alhan C., Gavin H.P., Aldemir U., "Optimal control: Basis for performance comparison of passive and semiactive isolation systems", *JOURNAL OF ENGINEERING MECHANICS-ASCE*, vol.132, pp.705-713, 2006
- Alhan C., Gavin H.P., "Reliability of base isolation for the protection of critical equipment from earthquake hazards", *ENGINEERING STRUCTURES*, vol.27, pp.1435-1449, 2005
- Gavin H., Alhan C., "Guidelines for low-transmissibility semi-active vibration isolation", *SMART MATERIALS*, vol.14, pp.297-306, 2005
- Alhan C., Gavin H., "A parametric study of linear and non-linear passively damped seismic isolation systems for buildings", *ENGINEERING STRUCTURES*, vol.26, pp.485-497, 2004
- Gavin H., Alhan C., Oka N., "Fault tolerance of semiactive seismic isolation", *JOURNAL OF STRUCTURAL ENGINEERING-ASCE*, vol.129, pp.922-932, 2003
- Tezcan S., Alhan C., "Parametric analysis of irregular structures under seismic loading according to the new Turkish Earthquake Code", *ENGINEERING STRUCTURES*, vol.23, pp.600-609, 2001

Diğer Dergilerde Yayınlanan Makaleler

- Kanbir Z., Özdemir G., Alhan C., "Modeling of Lead Rubber Bearings via 3D-BASIS, SAP2000, and OpenSees Considering Lead Core Heating Modeling Capabilities", International Journal of Structural and Civil Engineering Research, vol.7, pp.294-301, 2018
- Öncü Davas S., Alhan C., "Response Sensitivity of Low-Rise Buildings to Coefficients of Variations of Random Semi-Active Isolation System Parameters under Near-Fault Earthquakes", International Journal of Structural and Civil Engineering Research, vol.7, pp.353-357, 2018

Kitap ve Kitap Bölümleri

- Öncü Davas S., Gazi H., Güler E., Alhan C., "Comparison of Ground Motion Pulse Models for the Seismic Response of Seismically Isolated Liquid Storage Tanks", in: Earthquake Engineering and Structural Dynamics in Memory of Ragnar Sigbjörnsson. Geotechnical, Geological and Earthquake Engineering, Rajesh Rupakhety, Simon Olafsson, Eds., Springer International Publishing AG, -, pp.143-157, 2018
- Gazi H., Öncü Davas S., Alhan C., "Comparison of Ground Motion Pulse Models for the Drift Response of Seismically Isolated Buildings", in: Urban Planning and Civil Engineering, Sisiopiku V.P., Ramadan O. E., Eds., Athens Institute for Education and Research, Atina, pp.321-332, 2015
- Öncü Davas S., Gazi H., Alhan C., "Comparison of Ground Motion Pulse Models for the Acceleration Response of Seismically Isolated Buildings", in: Architecture Anthology I: Architectural Construction, Materials and Building Technologies, Khatip, J.M., Eds., Athens Institute for Education and Research, Atina, pp.229-240, 2015

Temel Eserler

- Alhan C., Şahin F., "Protecting Vibration-Sensitive Contents: An Investigation Of Floor Accelerations In Seismically Isolated Buildings", BULLETIN OF EARTHQUAKE ENGINEERING, vol.9, pp.123-1226, 2011
- Alhan C., Gavin H., "A Parametric Study Of Linear And Non-Linear Passively Damped Seismic Isolation Systems For Buildings", ENGINEERING STRUCTURES, vol.26, pp.485-497, 2004
- Alhan C., Gavin H.P., "Reliability Of Base Isolation For The Protection Of Critical Equipment From Earthquake Hazards", ENGINEERING STRUCTURES, vol.27, pp.1435-1449, 2005

- Alhan C., Ozgur M., "Seismic responses of base-isolated buildings: efficacy of equivalent linear modeling under near-fault earthquakes", SMART STRUCTURES AND SYSTEMS, vol.15, pp.1439-1461, 2015 Alhan C., Sürmeli M., "Shear building representations of seismically isolated buildings", BULLETIN OF EARTHQUAKE ENGINEERING, vol.9, pp.1643-1671, 2011

Katıldığı Bilimsel Kongre / Sempozyum ve Bilimsel Toplantılar

- Natural Hazards and Risks in a Changing World, Potsdam, Ekim 2018
- Zemin Mekaniği ve Geoteknik Mühendisliği 17. Ulusal Konferansı, İstanbul, Eylül 2018
- International Conference on Earthquake Engineering and Structural Dynamics (ICESD2017), Reykjavík, Haziran 2017
- 2nd International Conference on Structural Engineering, New Technology and Methods (ICSENM17), Barcelona, Nisan 2017
- 2nd International Conference on Civil and Environmental Engineering (ICOCEE2017), Nevşehir, Mayıs 2017
- Fifth International Symposium on Life-Cycle Civil Engineering (IALCCE2016), , Ekim 2016
- Türkiye Sismik Tehlike Haritası ve Türkiye Bina Deprem Yönetmeliği Çalıştayı, Ankara, Haziran 2016
- Erasmus Öğretim Üyesi Hareketliliği Programı, Bologna, Mayıs 2015
- Tenth Pacific Conference on Earthquake Engineering (PCEE 2015), Sydney, Kasım 2015
- Earthquake Risk and Engineering towards a Resilient World (SECED 2015), , Temmuz 2015
- International Conference on Computational and Experimental Science and Engineering (ICCESEN-2015), Antalya, Ekim 2015
- International Conference On Structural Engineering Dynamics, LAGOS, Haziran 2015
- Deprem Yönetmeliğinin Güncellenmesi Çalıştayı, ANKARA, Mayıs 2014
- 2nd Annual International Conference on Architecture and Civil Engineering, SİNGAPUR, Mart 2014
- Deprem Yönetmeliğinin Güncellenmesi Çalıştayı, İstanbul, Haziran 2013
- Deprem Yalıtımı Yöntemleri ve Uygulamaları Sempozyumu, Ankara, Şubat 2013
- Vienna Congress on Recent Advances in Earthquake Engineering and Structural Dynamics , Viyana, Ağustos 2013
- 7. Ulusal Deprem Mühendisliği Konferansı, Ankara, Mayıs 2011
- 1. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı, Ankara, Ekim 2011
- Intergroups Interaction Programme, Timişoara, Mayıs 2011
- WCCE-ECCE-TCCE Joint conference: Earthquake and Tsunami, İstanbul, Haziran 2009
- 5th International Advanced Technologies Symposium, Karabük, Mayıs 2009
- European Civil Engineering Education and Training (EUCEET) Thematic Network 3rd General Assembly, Paris, Kasım 2009
- Su ve Enerji Konferansı, Artvin, Eylül 2008
- First International Conference on Education and Training in Geo-Engineering Sciences: Soil Mechanics and Geotechnical Engineering Geology, Rock Mechanics, Constantza, Haziran 2008
- European Civil Engineering Education and Training (EUCEET) Thematic Network Workshop , Constantza, Haziran 2008
- 7th U.S. National Conference on Earthquake Engineering (7NCEE), Massachusetts, Temmuz 2002

Bilimsel Hakemlikler

-
- Engineering Structures, Dergide Hakemlik, Ekim 2018
 - Structural Engineering International, Dergide Hakemlik, Eylül 2018
 - Gazi University Journal of Science, Dergide Hakemlik, Temmuz 2018
 - Advances in Structural Engineering, Dergide Hakemlik, Haziran 2018
 - Soil Dynamics and Earthquake Engineering, Dergide Hakemlik, Haziran 2018
 - Bulletin of Earthquake Engineering, Dergide Hakemlik, Nisan 2018
 - Engineering Structures, Dergide Hakemlik, Mart 2018
 - Earthquake Engineering and Engineering Vibration, Dergide Hakemlik, Şubat 2018
 - Bulletin of Earthquake Engineering, Dergide Hakemlik, Ocak 2018
 - Engineering Structures, Dergide Hakemlik, Ocak 2018
 - Journal of Bridge Engineering, Dergide Hakemlik, Ocak 2018
 - Engineering Structures, Dergide Hakemlik, Aralık 2017
 - Engineering Structures, Dergide Hakemlik, Kasım 2017
 - Structure and Infrastructure Engineering, Dergide Hakemlik, Ekim 2017
 - Earthquake Engineering and Engineering Vibration, Dergide Hakemlik, Temmuz 2017
 - Engineering Structures, Dergide Hakemlik, Haziran 2017
 - Engineering Structures, Dergide Hakemlik, Haziran 2017
 - Engineering Structures, Dergide Hakemlik, Haziran 2017
 - Journal of Earthquake Engineering, Dergide Hakemlik, Haziran 2017
 - Engineering Structures, Dergide Hakemlik, Mayıs 2017
 - Gazi Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, Dergide Hakemlik, Şubat 2017
 - Earthquake Engineering and Engineering Vibration, Dergide Hakemlik, Ocak 2017
 - Engineering Structures, Dergide Hakemlik, Ocak 2017
 - Engineering Structures, Dergide Hakemlik, Ocak 2017
 - Earthquake Engineering and Engineering Vibration, Dergide Hakemlik, Kasım 2016
 - Bulletin of Earthquake Engineering, Dergide Hakemlik, Ekim 2016
 - Steel and Composite Structures, Dergide Hakemlik, Ekim 2016
 - Earthquakes and Structures, Dergide Hakemlik, Temmuz 2016
 - Engineering Structures, Dergide Hakemlik, Temmuz 2016
 - Engineering Structures, Dergide Hakemlik, Haziran 2016
 - Engineering Structures, Dergide Hakemlik, Haziran 2016
 - Advances in Mechanical Engineering, Dergide Hakemlik, Mayıs 2016
 - Turkish Journal of Electrical Engineering & Computer Sciences, Dergide Hakemlik, Mayıs 2016
 - Earthquakes and Structures, Dergide Hakemlik, Nisan 2016
 - Engineering Optimization, Dergide Hakemlik, Mart 2016
 - Engineering Structures, Dergide Hakemlik, Mart 2016
 - Earthquake Engineering and Engineering Vibration, Dergide Hakemlik, Şubat 2016
 - Engineering Structures, Dergide Hakemlik, Şubat 2016
 - Journal of Bridge Engineering, Dergide Hakemlik, Şubat 2016
 - Earthquake Engineering and Engineering Vibration, Dergide Hakemlik, Aralık 2015
 - Earthquake Engineering and Structural Dynamics, Dergide Hakemlik, Aralık 2015
 - Engineering Optimization, Dergide Hakemlik, Aralık 2015
 - Engineering Structures, Dergide Hakemlik, Aralık 2015
 - Indian Journal of Engineering & Materials Sciences, Dergide Hakemlik, Aralık 2015
 - Indian Journal of Engineering & Materials Sciences, Dergide Hakemlik, Aralık 2015
 - Journal of Bridge Engineering, Dergide Hakemlik, Aralık 2015
 - Engineering Structures, Dergide Hakemlik, Temmuz 2015
 - Advances in Mechanical Engineering, Dergide Hakemlik, Haziran 2015
 - Earthquake Engineering and Engineering Vibration, Dergide Hakemlik, Haziran 2015
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- Structure and Infrastructure Engineering, Dergide Hakemlik, Haziran 2015
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- Advances in Mechanical Engineering, Dergide Hakemlik, Şubat 2015
- Engineering Structures, Dergide Hakemlik, Ocak 2015
- Bulletin of Earthquake Engineering, Dergide Hakemlik, Kasım 2014
- Bulletin of Earthquake Engineering, Dergide Hakemlik, Kasım 2014
- Computer Applications in Engineering Education, Dergide Hakemlik, Ekim 2014
- Earthquake Engineering and Engineering Vibration, Dergide Hakemlik, Ekim 2014
- Engineering Structures, Dergide Hakemlik, Eylül 2014
- Engineering Structures, Dergide Hakemlik, Ağustos 2014
- Bulletin of Earthquake Engineering, Dergide Hakemlik, Haziran 2014
- Soil Dynamics and Earthquake Engineering, Dergide Hakemlik, Haziran 2014
- Engineering Structures, Dergide Hakemlik, Mayıs 2014
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- Engineering Structures, Dergide Hakemlik, Ocak 2014
- Engineering Structures, Dergide Hakemlik, Aralık 2013
- TÜBİTAK, Proje Hakemliği, Kasım 2013
- Engineering Structures, Dergide Hakemlik, Kasım 2013
- Engineering Structures, Dergide Hakemlik, Kasım 2013
- Engineering Structures, Dergide Hakemlik, Eylül 2013
- Engineering Structures, Dergide Hakemlik, Eylül 2013
- Engineering Structures, Dergide Hakemlik, Temmuz 2013
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- TÜBİTAK , Proje Hakemliği, Haziran 2013
- Engineering Structures, Dergide Hakemlik, Haziran 2013
- Engineering Structures, Dergide Hakemlik, Nisan 2013
- Engineering Structures, Dergide Hakemlik, Mart 2013
- Bulletin of Earthquake Engineering, Dergide Hakemlik, Şubat 2013
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- Earthquake Engineering and Structural Dynamics, Dergide Hakemlik, Aralık 2012
- Engineering Structures, Dergide Hakemlik, Aralık 2012
- Bulletin of Earthquake Engineering, Dergide Hakemlik, Kasım 2012
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- Engineering Structures, Dergide Hakemlik, Ocak 2007

Bilimsel, Dernek Organizasyon ve Kuruluşlardaki Üyelikler / Görevler

- International Association for Life-Cycle Civil Engineering, , Üye, 06.10.2016 - Devam Ediyor
- ASCE American Society of Civil Engineers, , Üye, 06.01.2004 - Devam Ediyor
- EERI Earthquake Engineering and Research Institute, , Üye, 01.09.2003 - Devam Ediyor

Ödüller ve Burslar

- Alhan C, "Outstanding Contribution in Reviewing, Engineering Structures , Ekim 2016