

Prof. ALP CANER

Personal Information

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Education Information

Doctorate, North Carolina State University, United States Of America 1994 - 1996

Post Graduate, North Carolina State University, United States Of America 1992 - 1994

Under Graduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1987 - 1991

Dissertations

Doctorate, Analysis and design of jointless bridge decks supported by simple-span girders, North Carolina State University, 1996

Post Graduate, Cracking in large-sized long-span prestressed concrete AASHTO girders, North Carolina State University, 1994

Research Areas

Civil Engineering

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, 2005 - 2017

Professional Experience

President, International Association of Bridge and Structural Engineering Foundation, Board of Members, 2019 - Continues

Birim Tanıtım ve Mezunlarla İlişkiler Komisyonu Üyesi, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, 2014 - Continues

Advising Theses

Caner A., SENSITIVITY ANALYSIS OF BRIDGE DECKS FOR HIGH-SPEED RAILWAY BRIDGES, Post Graduate, A.RAHMAN(Student), 2020

Caner A., Evaluation of intensity measures for ground motion selection to be used in the analysis of highway flyover bridges, Post Graduate, A.AKRAY(Student), 2019

Caner A., Investigation and comparison of bearing devices used in high-speed railway bridges under earthquake impact,

Post Graduate, U.AŞCI(Student), 2019

Caner A., RELIABILITY AND QUANTITY BASED EVALUATION OF STRUCTURAL PROPORTIONS OF SEVERAL HIGHWAY PRECAST PRESTRESSED I GIRDER BRIDGES DESIGNED IN AN EARTHQUAKE REGION, Post Graduate, İ.TOKER(Student), 2019

Caner A., An investigation of liquefaction effects on piers and piles of segmental precast balanced cantilever bridges, Post Graduate, Ö.GÜNDÜZ(Student), 2019

CANER A., Reliability analysis of precast prestressed bridge girders based on AASHTO LRFD and EUROCODE, Post Graduate, C.ÇELİK(Student), 2018

CANER A., Development of a new hybrid damper for steel bracing systems, Doctorate, N.SABAHAATIN(Student), 2017

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

CANER A., The assessment of seismic performance of multi-span highway bridges in turkey including column deterioration, Post Graduate, C.ELİF(Student), 2016

CANER A., YANMAZ A. M. , A study on seismic behavior of scour-vulnerable bridges, Post Graduate, H.SEMA(Student), 2016

CANER A., Segmental concrete box girder bridge thermal analysis based on new Turkish solar zone map developed to assess temperature gradient loading, Post Graduate, A.İPEK(Student), 2015

CANER A., Live load reliability index evaluation for post tensioned balanced cantilever bridges, Post Graduate, B.BORA(Student), 2015

CANER A., Turkish LRFD Live Load Design Parameters for Cable Stayed Bridge with Concrete Deck on Steel Girder, Post Graduate, Y.DÖNMEZ(Student), 2015

CANER A., Seismic performance of unbonded elastomeric bearings on bridges: an experimental and parametric study, Doctorate, K.ARMAN(Student), 2015

CANER A., Reliability based evaluation of seismic design of Turkish bridges by using load and load and resistance factor method, Post Graduate, S.ALP(Student), 2014

CANER A., Experimental investigation of uplift on seismic base isolators, Post Graduate, E.ERKAKAN(Student), 2014

CANER A., Calibration of Turkish LRFD bridge design method for slab on steel plate girders, Post Graduate, A.FATİH(Student), 2013

CANER A., Fire tests of cut and cover tunnel roof segments at positive moment region, Post Graduate, K.SARP(Student), 2011

CANER A., Effect of initial support of excavation on seismic performance of cut and cover structures, Post Graduate, H.REZAEİ(Student), 2011

CANER A., Experimental evaluation of "ball rubber bearings" at different temperatures, Post Graduate, S.ERDAL(Student), 2010

CANER A., Analytical investigation of AASHTO LRFD response modification factors and seismic performance levels of circular bridge columns, Post Graduate, A.ERDEM(Student), 2010

CANER A., AKYÜZ U., Development of a new seismic isolator named "ball rubber bearing", Doctorate, C.ÖZKAYA(Student), 2010

CANER A., Evaluation of structural analysis methods used for the design of tbn segmental linings, Post Graduate, A.GÜRAY(Student), 2010

CANER A., Reliability based safety level evaluation of Turkish type precast prestressed concrete bridge girders designed in accordance with the load and resistance factor desing method, Post Graduate, O.ARGİNHAN(Student), 2010

YAKUT A., CANER A., Fragility based seismic vulnerability assessment of ordinary highway bridges in Turkey, Doctorate, Ö.AVŞAR(Student), 2009

CANER A., Evaluation of steel building design methodologies: TS 648, EUROCODE 3 and LRFD, Post Graduate, A.ZERVENT(Student), 2009

CANER A., Impact of passenger comfort level on design of short-span composite steel I-girder high speed railroad bridges, Post Graduate, T.ŞENTÜRK(Student), 2009

CANER A., Seismic response of multi-span highway bridges with two-column reinforced concrete bents including foundation and column flexibility, Post Graduate, T.YILMAZ(Student), 2008

CANER A., Dynamic investigation and rehabilitation of existing railway truss bridge under high speed train loadings for

passenger comfort, Post Graduate, G.MUTLU(Student), 2008

CANER A., Effects of vertical excitation on seismic performance of highway bridges and hold-down device requirements, Post Graduate, K.ARMAN(Student), 2008

CANER A., Structural fire safety of standard circular railroad tunnels under different soil conditions, Post Graduate, A.BÖNCÜ(Student), 2008

TOPKAYA C., CANER A., Detailed fem analysis of two different splice steel connections, Post Graduate, O.YILMAZ(Student), 2008

CANER A., Analysis of blast loading effect on regular steel building structures, Post Graduate, F.TAHMİLÇİ(Student), 2007

CANER A., A simple assessment of lateral pier response of standard highway bridges on pile foundations, Post Graduate, Ü.TANER(Student), 2007

CANER A., Seismic performance of multisimple span skew bridges retrofitted with link slabs, Post Graduate, G.SEVGİLİ(Student), 2007

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Augmented reality for bridge condition assessment using advanced non-destructive techniques**
KILIÇ G., CANER A.
STRUCTURE AND INFRASTRUCTURE ENGINEERING, 2020 (Journal Indexed in SCI)
- **Interview with IABSE Foundation Council Chair, Alp Caner**
CANER A.
STRUCTURAL ENGINEERING INTERNATIONAL, vol.30, pp.302-303, 2020 (Journal Indexed in SCI)
- **Stability of Bridge Piers Subjected to a Probable Flood Event Followed by a Probable Seismic Event**
Kızılduman H. S. , Yanmaz A. M. , Caner A.
Journal of Performance of Constructed Facilities, vol.32, 2018 (Journal Indexed in SCI)
- **In-Depth Investigation of Seismic Vulnerability of an Aging River Bridge Exposed to Scour**
AVŞAR Ö., Atak B., CANER A.
JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES, vol.31, 2017 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **Preface**
CANER A., Gülkan P., Mahmoud K.
Springer Tracts on Transportation and Traffic, vol.9, 2016 (Journal Indexed in SCI)
- **Vehicle effects on seismic response of a simple-span bridge during shake tests**
Shaban N., Caner A., Yakut A., Askan A., Naghshineh A. K. , Domanic A., Can G.
EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.44, pp.889-905, 2015 (Journal Indexed in SCI)
- **Performance of Ball Rubber Bearings in Low-Temperature Regions**
CANER A., Naghshineh A. K. , Erdal S.
JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES, vol.29, 2015 (Journal Indexed in SCI)
- **Lateral Response Comparison of Unbonded Elastomeric Bearings Reinforced with Carbon Fiber Mesh and Steel**
Naghshineh A. K. , Akyuz U., Caner A.
SHOCK AND VIBRATION, 2015 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
Comparison of fundamental properties of new types of fiber-mesh-reinforced seismic isolators with conventional isolators
Naghshineh A. K. , AKYÜZ U., CANER A.
- EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.43, pp.301-316, 2014 (Journal Indexed in SCI)
Identifying Bridge Rehabilitation Needs Using an Analytical Method Developed for Interpretation of Visual Inspection Data
AVŞAR Ö., Marianos W. N. , CANER A.
- JOURNAL OF PERFORMANCE OF CONSTRUCTED FACILITIES, vol.26, pp.312-319, 2012 (Journal Indexed in SCI)
Analytical Fragility Curves for Ordinary Highway Bridges in Turkey
AVŞAR Ö., YAKUT A., CANER A.
- EARTHQUAKE SPECTRA, vol.27, pp.971-996, 2011 (Journal Indexed in SCI)
Development of a new rubber seismic isolator: 'Ball Rubber Bearing (BRB)'
ÖZKAYA C., AKYÜZ U., CANER A., DİCLELİ M., Pinarbasi S.
- EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS, vol.40, pp.1337-1352, 2011 (Journal Indexed in SCI)
Improved Seismic Response of Multisimple-Span Skewed Bridges Retrofitted with Link Slabs
Sevgili G., CANER A.
- JOURNAL OF BRIDGE ENGINEERING, vol.14, pp.452-459, 2009 (Journal Indexed in SCI)
A New Era in Structural Analysis: Construction Staging
Karakaplan A., CANER A., Kurc Ö., Domanic A., Lulec A.
- TEKNİK DERGI, vol.20, pp.4905-4917, 2009 (Journal Indexed in SCI)
Structural Fire Safety of Circular Concrete Railroad Tunnel Linings
CANER A., Boncu A.
- JOURNAL OF STRUCTURAL ENGINEERING-ASCE, vol.135, pp.1081-1092, 2009 (Journal Indexed in SCI)
Service life assessment of existing highway bridges with no planned regular inspections
Caner A., Yanmaz A. M. , Yakut A., Avşar O., Yılmaz T.
- Journal of Performance of Constructed Facilities, vol.22, pp.108-114, 2008 (Journal Indexed in SCI)
Renovation of a safety-inspection methodology for river bridges
Yanmaz A. M. , Caner A., Berk A.
- Journal of Performance of Constructed Facilities, vol.21, pp.382-389, 2007 (Journal Indexed in SCI)
Structural fire performance of concrete and shotcrete tunnel liners
Caner A., Zlatanic S., Munfah N.
- JOURNAL OF STRUCTURAL ENGINEERING-ASCE, vol.131, pp.1920-1925, 2005 (Journal Indexed in SCI)
Seismic performance of multisimple-span bridges retrofitted with link slabs
Caner A., Dogan E., Zia P.
- Journal of Bridge Engineering, vol.7, pp.85-93, 2002 (Journal Indexed in SCI Expanded)
Tensioned fabric shape-finding
Caner A., Hsu R.
- JOURNAL OF STRUCTURAL ENGINEERING-ASCE, vol.125, pp.1065-1071, 1999 (Journal Indexed in SCI)
Behavior and design of link slabs for jointless bridge decks
Caner A.
- PCI JOURNAL, vol.43, pp.68-81, 1998 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Condition factor for seismic performance of deteriorated bridges**
Ocak E. C. , CANER A.
- BRIDGE STRUCTURES, vol.15, pp.187-196, 2019 (Journal Indexed in ESCI)
Shake table tests of different seismic isolation systems on a large scale structure subjected to low to moderate earthquakes

Shahan N., CANER A.

JOURNAL OF TRAFFIC AND TRANSPORTATION ENGINEERING-ENGLISH EDITION, vol.5, pp.480-490, 2018 (Journal Indexed in ESCI)

● **Prototype testing of a new passive energy dissipation device for seismic retrofit of bridges**

Shaban N., CANER A.

Frontiers in Built Environment, vol.2, 2016 (Refereed Journals of Other Institutions)

● **Calibration of Turkish LRFD bridge design code for slab on steel plate girders**

KOÇ A., CANER A., YÜCEMEN M. S.

BRIDGE STRUCTURES, vol.9, pp.115-121, 2013 (Journal Indexed in ESCI)

● **Target damage level assessment for seismic performance evaluation of two-column reinforced concrete bridge bents**

Yilmaz T., CANER A.

BRIDGE STRUCTURES, vol.8, pp.135-146, 2012 (Journal Indexed in ESCI)

Books & Book Chapters

● **Turkish Solar Radiation Zones for Segmental Box Girder Bridge Design Under Temperature Gradient Loading**

Yılmaz İ., ALBOSTAN U., CANER A., KURÇ Ö.

in: Developments in International Bridge Engineering, Alp Caner, Polat Gülkan, Khaled Mahmoud, Editor, Springer International Publishing, pp.77-89, 2016

Refereed Congress / Symposium Publications in Proceedings

● **A Comparative Study on Seismic Isolation Applications in Turkey**

AKYÜZ U., CANER A., YAKUT A.

15th World Conference on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures, Wellington, New Zealand, 27 - 29 April 2017

● **Seismic retrofit of buildings with backbone dampers**

Shaban N., Ozdemir S., CANER A., AKYÜZ U.

6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, COMPDYN 2017, Rhodes Island, Greece, 15 - 17 June 2017, vol.1, pp.2110-2118

● **Remaining service life assessment of river bridges with cracked members**

Ozdemir S., Topkara N., YAKUT A., AKYÜZ U., CANER A.

8th International Conference on Bridge Maintenance, Safety and Management (IABMAS), Foz do Iguaçu, Brazil, 26 - 30 June 2016, pp.412-413

● **Turkish Solar Radiation Zones for Segmental Box Girder Bridge Design Under Temperature Gradient Loading**

YILMAZ A., Albostan U., CANER A., KURÇ Ö.

Istanbul Bridge Conference, Turkey, 11 - 13 August 2014, vol.9, pp.77-89

● **Time-efficient paperless visual inspection of Zonguldak-Irmak railroad bridges**

YÜCEL M., CANER A., TÜRER A.

7th International Conference on Bridge Maintenance, Safety and Management (IABMAS), Shanghai, China, 7 - 11 July 2014, pp.2395-2400

● **Visual evaluation and remaining service life assessment of a reinforced concrete arch bridge: Cayirhan bridge**

CANER A., TÜRER A.

7th International Conference on Bridge Maintenance, Safety and Management (IABMAS), Shanghai, China, 7 - 11 July 2014, pp.403-407

- **Visual evaluation and remaining service life assessment of a reinforced concrete arch bridge: Çayirhan bridge**
CANER A., TÜRER A.
7th International Conference on Bridge Maintenance, Safety and Management, IABMAS 2014, Shanghai, China, 7 - 11 July 2014, pp.403-407
- **Strengthening of a single track railroad steel truss bridge with addition of a two lane highway deck**
CANER A., Marianos W., Sarici B.
IABSE Workshop on Assessment, Upgrading and Refurbishment of Infrastructures, Rotterdam, Netherlands, 6 - 08 May 2013
- **A Conceptual Design of a Cable Stayed Bridge with a Curved Back Span**
Avsar O., CANER A., Sarici B.
International Conference on Civil Engineering and Building Materials (CEBM), Kunming, China, 29 - 31 July 2011, pp.993-994
- **Design of cast-in-place balanced cantilever bridges in Turkey**
CANER A.
3rd International fib Congress and Exhibition, Incorporating the PCI Annual Convention and Bridge Conference 2010, Washington, United States Of America, 29 May - 02 June 2010
- **Cable supported footbridge analysis with construction staging**
Caner A.
4th New York City Bridge Conference, New-York, United States Of America, 27 - 28 August 2007, pp.61-65
- **Cable hanger plate replacement a case study on Bosphorus Bridge**
TÜRER A., CANER A., Yılmaz Ç.
Proceedings of the Third International Conference on Bridge Maintenance, Safety and Management IABMAS, Porto, Portugal, 16 - 19 July 2006, pp.433
- **Quantitative assessment of structural fire endurance of concrete and shotcrete tunnel liners**
Caner A., Zlatanovic S., Munfah N.
2005 ITA-AITES World Tunnel Congress and 31st General Assembly, İstanbul, Turkey, 7 - 12 May 2005, vol.1, pp.585-590

Supported Projects

- Caner A., Municipality, MÜRSELPAŞA CADDESİ-ZAFER PAYZIN KÖPRÜLÜ KAVŞAĞI ARASI KARAYOLU, BAĞLANTI YOLLARI VE BÜYÜK SANAT YAPILARI UYGULAMA VE GÜÇLENDİRME PROJELERİ DANIŞMANLIĞI, 2020 - 2021
- Caner A., Ministry of Transport, Ankara-Sivas Ankara-İzmir (Polatlı Afyon, Afyon Banaz Kesimleri Hariç) Bandırma Bursa Avazma Osmaneli Hızlı Tren Projelerindeki Viyadük Yapım İşlerinde Danışmanlık Hizmetinin Yürütülmesi İş Sözleşmesi, 2019 - 2020
- Caner A., Ministry of Transport, Etüt Proje Mühendislik ve Danışmanlık Hizmet Alımı İşlerinde Sanat Yapılarının Tasarımı ile İlgili Teknik Konularda Danışmanlık Alınması Sözleşmesi, 2017 - 2020
- Caner A., Ministry of Transport, Ankara-İzmir Hızlı Tren projesi Ankara Polatlı Afyonkaahisar Kesimi Altyapı İnşaat Yapım İşinde Danışmanlık Hizmetlerinin Yürütülmesi Sözleşmesi, 2017 - 2018
- CANER A., Project Supported by Other Official Institutions, Ankara Sivas Demiryolu Projesi Kayaş Kırıkkale Arası kesim 1 v7 v9 v10 v15, 2016 - 2017
- CANER A., Project Supported by Other Official Institutions, Etüt Proje Mühendislik ve Danışmanlık Hizmet Alım İşlerinde Sanat Yapılarının Tasarım ile İlgili Teknik Konularında Danışmanlık, 2016 - 2017
- CANER A., SHABAN N., Project Supported by Higher Education Institutions, Merkezleme Özelliği Olan Yenilikçi Bir Sönüm Cihazının Deneysel İncelenmesi, 2016 - 2016
- CANER A., Project Supported by Higher Education Institutions, Fiber Takviyeli Sismik Yalıtımların Deneysel Çalışması, 2012 - 2012

Memberships / Tasks in Scientific Organizations

Türkiye Köprü ve İnşaat Cemiyeti, Chairman, 2011 - Continues, Turkey

Scientific Refereeing

JOURNAL OF BRIDGE ENGINEERING, SCI Journal, August 2020

JOURNAL OF BRIDGE ENGINEERING, SCI Journal, June 2020

JOURNAL OF BRIDGE ENGINEERING, SCI Journal, June 2020

JOURNAL OF BRIDGE ENGINEERING, SCI Journal, June 2020

JOURNAL OF BRIDGE ENGINEERING, SCI Journal, June 2020

JOURNAL OF STRUCTURAL ENGINEERING-ASCE, SCI Journal, June 2020

JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, SCI Journal, June 2020

JOURNAL OF BRIDGE ENGINEERING, SCI Journal, May 2020

JOURNAL OF BRIDGE ENGINEERING, SCI Journal, April 2020

JOURNAL OF BRIDGE ENGINEERING, SCI Journal, April 2020

JOURNAL OF BRIDGE ENGINEERING, SCI Journal, March 2020

JOURNAL OF BRIDGE ENGINEERING, SCI Journal, March 2020

JOURNAL OF BRIDGE ENGINEERING, SCI Journal, March 2020

Journal Of Bridge Engineering, SCI Journal, January 2020

JOURNAL OF BRIDGE ENGINEERING, SCI Journal, January 2020

Scientific Research / Working Group Memberships

International Association Of Bridge And Structural Engineers Tg4.1 Joints And Bearings Group, Switzerland,
www.iabse.org, 2018 - Continues

Citations

Total Citations (WOS):209

h-index (WOS):9

Entrepreneurship Activities

Anonymous, BridgeWiz, 14 September 2017, Founder Owner