

## Asst. Prof. Emre Alpaslan

### Personal Information

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### Education Information

Doctorate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (Dr), Turkey 2012 - 2019

Postgraduate, Drexel University {Pennsylvania}, İnşaat Mühendisliği, United States Of America 2008 - 2011

Undergraduate, Gaziantep University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 2000 - 2005

### Dissertations

Doctorate, Tarihi yığma köprü hasarlarının analitik model ve deneysel yöntemlerle belirlenmesi, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (Dr), 2019

Postgraduate, Seismic Performance of Partially Grouted Reinforced Concrete Masonry Buildings Using 1/3-Scale Units, Phase:1 Correlations Study of Masonry Materials and Assemblages, Drexel University {Pennsylvania}, İnşaat Mühendisliği, 2011

### Research Areas

Structure, Engineering and Technology

### Academic Titles / Tasks

Ondokuz Mayıs University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2020 - Continues

Ondokuz Mayıs University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2020 - Continues

### Courses

INS432 Deprem Mühendisliğine Giriş, Undergraduate, 2022 - 2023

FİM677 Depreme Dayanıklı Betonarme ve Yığma Yapıların Tasarımı, Postgraduate, 2022 - 2023, 2021 - 2022

FİM 678 Yapı Analizlerinde Matris Yöntemler, Postgraduate, 2022 - 2023, 2021 - 2022

INS426 Prefabrikasyon Yapılar, Undergraduate, 2022 - 2023, 2020 - 2021

INS425 Yapıların Deneysel Davranışı, Undergraduate, 2021 - 2022

İNŞ233 Dünyada ve Türkiye'de Önemli Mühendislik Yapıları, Undergraduate, 2021 - 2022

INS467 Sonlu Elemanlar Metodu, Undergraduate, 2021 - 2022

FİM679 İnşaat Mühendisliğinde Yapısal Modelleme Uygulamaları, Postgraduate, 2021 - 2022

HRT 323 Mühendislik Mekaniği, Undergraduate, 2020 - 2021

MBM207 Statik ve Mukavemet, Undergraduate, 2020 - 2021

EEM459 Bilgisayar Destekli Çizim, Undergraduate, 2020 - 2021

INS102 Bilgisayar Destekli Çizim, Undergraduate, 2020 - 2021

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

- I. **Structural Modal Calibration of Historical Masonry Arch Bridge by Using a Novel Deep Neural Network Approach**  
Alpaslan E., Haciefendioğlu K., Yılmaz M. F., Demir G., Mostofi F., Toğan V.  
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF CIVIL ENGINEERING, vol.48, no.1, pp.329-352, 2024 (SCI-Expanded)
- II. **Rating and reliability assessment of a historical masonry arch bridge**  
Alpaslan E., Yılmaz M. F., DİNÇ ŞENGÖNÜL B.  
JOURNAL OF CIVIL STRUCTURAL HEALTH MONITORING, vol.13, no.4-5, pp.1003-1021, 2023 (SCI-Expanded)
- III. **Response surface-based model updating to detect damage on reduced-scale masonry arch bridge**  
Alpaslan E., Karaca Z.  
STRUCTURAL ENGINEERING AND MECHANICS, vol.79, no.1, pp.9-22, 2021 (SCI-Expanded)
- IV. **Response surface-based finite-element model updating of a historic masonry minaret for operational modal analysis**  
Alpaslan E., HACIEFENDİOĞLU K., Demir G., Birinci F.  
STRUCTURAL DESIGN OF TALL AND SPECIAL BUILDINGS, vol.29, no.9, 2020 (SCI-Expanded)
- V. **Stochastic dynamic analysis of a historical masonry bridge under surface blast-induced multi-point ground motion**  
HACIEFENDİOĞLU K., Banerjee S., SOYLUK K., Alpaslan E.  
STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT, vol.29, no.5, pp.1275-1286, 2015 (SCI-Expanded)
- VI. **Stochastically simulated blast-induced ground motion effects on nonlinear response of an industrial masonry chimney**  
HACIEFENDİOĞLU K., Alpaslan E.  
STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT, vol.28, no.2, pp.415-427, 2014 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Statistical investigation of the effect of different damage conditions on the modal frequency value of a steel beam**  
ALPASLAN E.  
Challenge Journal of Structural Mechanics, vol.8, no.3, pp.87-98, 2022 (Peer-Reviewed Journal)
- II. **Response surface-based finite element model calibration of a one-span historical masonry bridge**  
ALPASLAN E., KARACA Z.  
Journal of Structural Engineering & Applied Mechanics (Online), vol.3, no.1, pp.25-40, 2020 (Peer-Reviewed Journal)
- III. **Model updating of a reduced-scaled masonry bridge by using response surface method**  
ALPASLAN E., KARACA Z.  
Challenge Journal of Structural Mechanics, vol.6, no.1, pp.41-51, 2020 (Peer-Reviewed Journal)
- IV. **Investigation on Similarity between Dynamic Behavior of a Reduced-Scale One Span Historical Masonry Arch Bridge Model and Prototype Bridge**  
ALPASLAN E., KARACA Z.  
Civil Engineering Beyond Limits, vol.1, no.1, pp.5-11, 2020 (Peer-Reviewed Journal)
- V. **The Effect of Different Braced Configurations on the Nonlinear Seismic Behavior of Steel Structure**  
YILMAZ M. F., ALPASLAN E.  
Civil Engineering Beyond Limits, vol.1, no.1, pp.22-28, 2020 (Peer-Reviewed Journal)
- VI. **Influence of blast-induced ground motion on dynamic response of masonry minaret of Yörgüç Paşa Mosque**

KÖKSAL O., HACIEFENDİOĞLU K., ALPASLAN E., BİRİNCİ F.

Challenge Journal of Structural Mechanics, vol.3, no.1, pp.31-37, 2017 (Peer-Reviewed Journal)

**VII. Modal identification of a reduced-scale masonry arch bridge with experimental measurements and finite element method**

ALPASLAN E., DİNÇ ŞENGÖNÜL B., HACIEFENDİOĞLU K., DEMİR G., KÖKSAL O.

Challenge Journal of Structural Mechanics, vol.3, no.3, pp.108-115, 2017 (Peer-Reviewed Journal)

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

- I. **Evaluation of Collapsed and Damaged Buildings in Dinar and Sultandağı Earthquakes using ARIO Program**  
Alpaslan E., J. Dyke S., Liu X., Zhang X., Iturburu L., E. Wogen B.  
8th International of Akademik Research, Turkey, 22 - 24 June 2022, vol.1, pp.258-266
- II. **Marmara Region and Western Anatolia Settlement Information and Analysis of Earthquake Parameters for Disaster and Emergency Situations**  
BİRİNCİ F., ALPASLAN E.  
14. International Congress on Advances in Civil Engineering, İstanbul, Turkey, 06 September 2021
- III. **Damage Effects on a Reduced-Scale Historical Masonry Arch Bridge Model by using Operational Modal Analysis**  
ALPASLAN E., KARACA Z.  
3rd International Conference on Advanced Engineering Technologies, 19-21 September 2019, Bayburt, TURKEY, 19 - 21 September 2019
- IV. **Response Surface-Based Finite Element Model Calibration of a One-Span Historical Masonry Bridge**  
ALPASLAN E., KARACA Z.  
3rd International Conference on Advanced Engineering Technologies, 19-21 September 2019, Bayburt, TURKEY, 19 - 21 September 2019
- V. **SHOCK-SPECTRUM ANALYSIS OF HISTORICAL MASONRY MINARETS**  
HACIEFENDİOĞLU K., ALPASLAN E., BİRİNCİ F., DEMİR G.  
INTERNATIONAL CIVIL ENGINEERING AND ARCHITECTURE CONFERENCE 2019, 17 - 20 April 2019
- VI. **Investigation of Modal Parameters of a One-Span Historical Masonry Arch Bridge**  
ALPASLAN E., DİNÇ B., KARACA Z., BİRİNCİ F., KÖKTAN U.  
4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, 11 - 13 October 2017
- VII. **TEK AÇIKLIKLI TARİHİ BİR YIĞMA KÖPÜRÜNÜN MODAL PARAMETRELERİNİN ARAŞTIRILMASI**  
ALPASLAN E., DİNÇ B., KARACA Z., BİRİNCİ F., KÖKTAN U.  
4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, Eskişehir, Turkey, 11 - 13 October 2017, vol.1, pp.1-8
- VIII. **Influence of Blast Induced Ground Motion on Dynamic Response of Masonry Minaret of Yörgüç Paşa Mosque**  
KÖKSAL O., HACIEFENDİOĞLU K., ALPASLAN E., BİRİNCİ F.  
12. International Congress On Advances In Civil Engineering (ACE 2016), İstanbul, Turkey, 21 - 23 October 2016, pp.1-8
- IX. **Influence of blast-induced ground motion on dynamic response of masonry minaret of Yörgüç Paşa Mosque**  
KÖKSAL O., HACIEFENDİOĞLU K., ALPASLAN E., BİRİNCİ F.  
ACE2016, İstanbul, Turkey, 21 - 25 September 2016
- X. **TDMSK 207 TARİHİ YAPILARDA LOKAL GÜÇLENDİRMEYE BAĞLI LOKAL RİJİTLİK ARTIŞININ YAPI DAVRANIŞINA ETKİSİ**  
ALPASLAN E., HACIEFENDİOĞLU K., BİRİNCİ F.  
3.TÜRKİYE DEPREM MÜHENDİSLİĞİ VE SİSMOLOJİ KONFERANSI, İzmir, Turkey, 14 - 16 October 2015, vol.1, pp.1-8
- XI. **Determination of modal parameters of historical masonry minarets by using operational modal analysis**

HACIEFENDİOĞLU K., Demir G., Alpaslan E.

Proceedings of the World Congress on Civil, Structural, and Environmental Engineering, CSEE 2016, Prague, Czech Republic, 30 - 31 March 2016

- XII. **TARİHİ YAPILARDA LOKAL GÜÇLENDİRMEYE BAĞLI LOKAL RİJİTLİK ARTIŞININ YAPI DAVRANIŞINA ETKİSİ**  
ALPASLAN E., HACIEFENDİOĞLU K., BİRİNCİ F., MAKSUT K.  
3. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı, Turkey, 14 - 16 October 2015, pp.1-11
- XIII. **Tarihi Yapılarda Lokal Güçlendirmeye Bağlı Lokal Rijitlik Artışının Yapı Davranışına Etkisi**  
ALPASLAN E., HACIEFENDİOĞLU K., BİRİNCİ F.  
3. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı, İzmir, Turkey, 14 - 16 October 2015
- XIV. **Seasonally Cold Effect on Concrete Minaret Subjected to Stochastic Random Excitation**  
HACIEFENDİOĞLU K., ALPASLAN E., BİRİNCİ F.  
International Civil Engineering & Architecture Symposium for Academicians 2014, Antalya, Turkey, 17 - 20 May 2014
- XV. **Influence of Blast induced Ground Motion on Dynamic Response of CFR Dam Ice Covered Reservoir Interaction System**  
HACIEFENDİOĞLU K., ALPASLAN E., KÖKSAL O.  
International Civil Engineering & Architecture Symposium for Academicians 2014, Antalya, Turkey, 17 - 20 May 2014
- XVI. **Nonlinear Behavior of Industrial Masonry Chimneys to Blast Induced Ground Vibration**  
HACIEFENDİOĞLU K., ALPASLAN E., GÖKHAN S.  
10th International Congress on Advances in Civil Engineering, Ankara, Turkey, 17 - 19 October 2012
- XVII. **Seismic Performance of Partially Grouted Reinforced Concrete Masonry Buildings Using 1 3 Scale Units Phase 1 B Correlation Study of Masonry Assemblages**  
AHMED H., DOMOGJ D., ALPASLAN E., FRANKLİN M.  
11th North American Masonry Conference, Minneapolis, United States Of America, 5 - 08 June 2011