

Asst. Prof. Zeynep FIRAT ALEMDAR

Personal Information

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Education Information

Doctorate, University Of Kansas, Civil Engineering, Civil Engineering, Turkey 2005 - 2010

Post Graduate, Boğaziçi Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliği, Turkey 2000 - 2003

Under Graduate, Yıldız Teknik Üniversitesi, Faculty of Construction, İnşaat Mühendisliği, Turkey 1996 - 2000

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Civil Engineering, Mechanical, Structural Mechanics, Structure, Prefabrication, Performance of Constructed Facilities, Earthquake Engineering, Concrete Structures, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Yıldız Teknik Üniversitesi, Faculty of Construction, İnşaat Müh., 2014 - Continues

Assistant Professor, Yıldız Teknik Üniversitesi, Technical Vocational School of Higher Education, İnşaat Teknolojisi, 2011 - 2014

Advising Theses

Firat Alemdar Z., Geri Kazanılmış Agregalı Betonlarla İnşa Edilmiş Betonarme Yapıların Mekanik Davranışının İncelenmesi, Post Graduate, Y.Selim(Student), 2019

Firat Alemdar Z., Fiber Katkılı Polimerlerle Güçlendirilmiş Betonarme Kirişlerin Sonlu Eleman Yöntemi İle Modellenmesi ve Analizi, Post Graduate, N.İnkaya(Student), 2018

FIRAT ALEMDAR Z., Kentsel Dönüşüm Kapsamındaki BA Binaların Depremselliğinin İncelenmesi, Post Graduate, D.Caymazer(Student), 2017

FIRAT ALEMDAR Z., Çeşitli Betonarme Yapı Elemanlarında Photogrammetrik Ölçümler İle Deneysel Sonuçların Karşılaştırılması, Post Graduate, S.Bilici(Student), 2017

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

- **High-Resolution Modeling of Reinforced Concrete Bridge Columns under Seismic Loading**

Alemdar Z., Matamoros A. B. , Browning J.

ACI STRUCTURAL JOURNAL, vol.110, pp.745-754, 2013 (Journal Indexed in SCI)

- **Photogrammetric measurements of RC bridge column deformations**

Alemdar Z., Browning J., Olafsen J.

ENGINEERING STRUCTURES, vol.33, pp.2407-2415, 2011 (Journal Indexed in SCI)

Articles Published in Other Journals

- **SEISMIC PERFORMANCE ASSESSMENT OF PREFABRICATED INDUSTRIAL BUILDINGS WITH SEMI-RIGID CONNECTIONS**
Firat Alemdar Z.
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.25, pp.247-268, 2020 (National Refreed University Journal)
- **Parametric Finite Element Analyses of Reinforced Concrete Beams Strengthened with CFRP**
Firat Alemdar Z., İnkaya N.
Dicle Üniversitesi Mühendislik Fakültesi, vol.10, pp.1073-1085, 2019 (National Refreed University Journal)
- **Seismic base isolation of a typical hospital structure with a friction pendulum isolator**
FIRAT ALEMDAR Z., Çakat G.
Journal of Structural Engineering & Applied Mechanics, vol.2, pp.1-11, 2019 (Refereed Journals of Other Institutions)
- **DEFORMATION MEASUREMENT IN A STEEL BRIDGE SYSTEM BY USING IMAGE PROCESSING METHOD**
FIRAT ALEMDAR Z., BİLİCİ S., Alemdar F.
Sigma Journal of Engineering and Natural Sciences, vol.9, pp.149-156, 2018 (National Refreed University Journal)
- **Kentsel Dönüşüm Kapsamında Çok Katlı Betonarme Bir Bina nın Deprem Performansının Değerlendirilmesi**
Firat Alemdar Z., Caymazer D.
Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.8, pp.273-283, 2018 (National Refreed University Journal)
- **Structural Deformation Measurement Using Matlab Image Processing Toolbox**
Firat Alemdar Z., Bilici S.
Eurasian Journal of Civil Engineering and Architecture, vol.1, pp.30-37, 2017 (International Conference Book)

Refereed Congress / Symposium Publications in Proceedings

- **Farklı Endüstriyel Kalıp ve İskele Sistemlerinin Tasarımı ve Uygulaması**
FIRAT ALEMDAR Z., Yıldırım S.
International Eurasian Conference on Science, Engineering and Technology, Ankara, Turkey, 22 November 2018, pp.1
- **ANALYSIS OF STRENGTHENED REINFORCED CONCRETE BEAMS WITH FIBER ADDITIVE POLYMERS BY FINITE ELEMENT METHOD**
FIRAT ALEMDAR Z., İnkaya N.
3. International Conference on Civil and Environmental Engineering, İzmir, Turkey, 24 April 2018, pp.237
- **KENTSEL DÖNÜŞÜM KAPSAMINDAKİ BETONARME BİR BİNANIN PERFORMANSININ DOĞRUSAL ELASTİK OLMAYAN HESAP YÖNTEMLERİ İLE BELİRLENMESİ**
FIRAT ALEMDAR Z., CAYMAZER D.
20. ULUSAL MEKANİK KONGRESİ, Bursa, Turkey, 05 September 2017, pp.1-6
- **GÖRÜNTÜ İŞLEME TEKNİĞİ KULLANILARAK BİR ÇELİK KÖPRÜ SİSTEMİNDE DEFORMASYON ÖLÇÜMÜ**
FIRAT ALEMDAR Z., BİLİCİ S.
20. ULUSAL MEKANİK KONGRESİ, Bursa, Turkey, 05 September 2017, pp.1-6
- **Structural Deformation Measurement Using MATLAB Image Processing Toolbox**
FIRAT ALEMDAR Z., BİLİCİ S.
2. INTERNATIONAL CIVIL AND ENVIRONMENTAL ENGINEERING CONFERENCE, Nevşehir, Turkey, 08 May 2017, pp.1-7
- **Nonlinear Static and Dynamic Analysis Evaluation of a Retrofitted Prefabricated Factory Building**
FIRAT ALEMDAR Z.
International Congress on Advanced Earthquake Resistant Structures (AERS2016), 01 October 2016
- **Evaluation of Repair of Prefabricated Beam Column Connections in Factory Buildings**
FIRAT ALEMDAR Z.

7th International Advanced Technologies Symposium, İstanbul, Turkey, 27 October 2013, pp.1-10

- **MODELING SURFACE DEFORMATIONS AND HINGING HINGING REGIONS IN REINFORCED CONCRETE BRIDGE COLUMNS BRIDGE COLUMNS**

FIRAT ALEMDAR Z., Matamoros A. B. , Browning J.

15th World Conference on Earthquake Engineering, 01 September 2012

- **Modeling Surface Deformations in Hinging Regions of Reinforced Concrete Bridge Columns.**

Firat Alemdar Z.

ACI Convention, Pennsylvania, United States Of America, 10 - 15 October 2010, pp.1-11

- **Monitoring RC Bridge Column Hinging with Photogrammetry**

FIRAT ALEMDAR Z., Browning J., Olafsen J., Hunt N.

Proceedings of the 14th World Conference on Earthquake Engineering, Beijing, China, 12 - 17 October 2008

- **Photogrammetry Applications in Four-Span Bridge Test**

FIRAT ALEMDAR Z.

ACI Convention, 01 April 2008

- **Plastic Hinging Behavior of RC Bridge Systems.**

FIRAT ALEMDAR Z.

ACI Convention, 01 April 2007

- **Control of Plastic Hinging Behavior of RC Bridge Systems.**

FIRAT ALEMDAR Z.

EERI Annual Meeting, 01 February 2007

- **A Comparison of Responses Predicted by Different Earthquake Analysis Procedures**

FIRAT ALEMDAR Z., Yerlici V.

6th International Congress on Civil Engineering

- **Different Dynamic Analyses Methods for Building Structures.**

FIRAT ALEMDAR Z., Yerlici V.

The Beton 2004 International Ready Mixed Concrete Congress

Other Publications

- **Betonarme Köprü Kolonlarında Plastik Mafsal Bölgelerinin Modellenmesi**

FIRAT ALEMDAR Z.

Technical Report, pp.7279-7286, 2015

Supported Projects

ALEMDAR F., FIRAT ALEMDAR Z., Project Supported by Higher Education Institutions, Bogaziçi Köprüsünün 2,5/1000 ölçekli laboratuvar modelinde deney ve simulasyon çalışmaları, 2015 - 2018

Alemdar F., Firat Alemdar Z., Sevim B., Arslan G., Ayvaz Y., Şahin A., Bekiroğlu S., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Sönümleyici mesnet test merkezi, 2015 - 2016

FIRAT ALEMDAR Z., Other Supported Projects, Plastic Hinging Behavior of Reinforced Concrete Bridge Columns, 2005 - 2011

Scientific Refereeing

Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, March 2018

Karbon lifli polimerlerle güçlendirilmiş etriyesiz betonarme kirişlerin dayanımı, National Scientific Refreed Journal, August 2016

Beton Yol Kaplamalarında Isıl Çatlakların Azaltılması için Cam ve Zeolit Kullanımı, National Scientific Refreed Journal, August 2016

Invited Congress and Symposium Activities

3. International Conference on Civil and Environmental Engineering, Attendee, İzmir, Turkey, 2018
20. ULUSAL MEKANİK KONGRESİ, Attendee, Bursa, Turkey, 2017
2. ULUSLARARASI İNŞAAT VE ÇEVRE MÜHENDİSLİĞİ KONFERANSI, Attendee, Nevşehir, Turkey, 2017
- International Congress on Advanced Earthquake Resistant Structures (AERS2016), Attendee, Samsun, Turkey, 2016
- 7th International Advanced Technologies Symposium, Attendee, İstanbul, Turkey, 2013
- 15th World Conference on Earthquake Engineering, Attendee, Lisbon, Portugal, 2012

Citations

Total Citations (WOS):18

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