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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği, Türkiye 2005 - 2012

Yüksek Lisans, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Yapı Mühendisliği (YL) (Tezli), Türkiye 2002 - 2004

Araştırma Alanları

Teknik Bilimler, İnşaat Mühendisliği , Yapı , Yapı Mühendisliği, Betonarme Yapılar

Akademik Unvanlar / Görevler

Araştırma Görevlisi, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, 2002 - Devam Ediyor

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Evaluation of rapid seismic safety assessment methods on a substandard reinforced concrete building stock in Istanbul**
Aydogdu H. H., Demir C., Kahraman T., İlki A.
Structures, cilt.56, 2023 (SCI-Expanded)
- II. **Seismic Retrofit of Substandard RC Columns Using Sprayed Glass Fiber-Reinforced Mortar and Basalt Textile Reinforcement**
ATEŞ A. O., Hajihosseinlou S., Nasrinpour A., Demir C., Comert M., Marasli M., İlki A.
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- III. **Structural Characteristics of the Earthquake-Prone Building Stock in Istanbul and Prioritization of Existing Buildings in Terms of Seismic Risk-A Pilot Project Conducted in Istanbul**
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- IV. **Damages and Failures of Structures in Izmir (Turkey) during the October 30, 2020 Aegean Sea Earthquake**
Gurbuz T., Cengiz A., Kölemenoglu Ş., Demir C., İlki A.
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- V. **Seismic Retrofitting Of the 19(TH) Century Hirka-i Serif Mosque Using Textile Reinforced Mortar**
Demir C., Comert M., Inci P., Dusak S., İlki A.
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- VI. **Seismic Collapse Performance of a Full-Scale Concrete Building with Lightly Reinforced Columns**
TÖRE E., Demir C., Comert M., İlki A.
JOURNAL OF STRUCTURAL ENGINEERING, cilt.147, sa.12, 2021 (SCI-Expanded)
- VII. **Seismic Retrofit of Joints of a Full-Scale 3D Reinforced Concrete Frame with FRP Composites**
Cosgun C., Comert M., Demir C., İlki A.
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- VIII. **Seismic Retrofit of Full-Scale Substandard Extended Rectangular RC Columns through CFRP Jacketing: Test Results and Design Recommendations**
Ghatte H. F., Comert M., Demir C., Akbaba M., İlki A.
JOURNAL OF COMPOSITES FOR CONSTRUCTION, cilt.23, sa.1, 2019 (SCI-Expanded)
- IX. **Evaluation of diaphragm conditions in AAC floor structures with RC beams**
Halici O. F., Ugurlu K., Demir C., Comert M., İlki A.
BULLETIN OF EARTHQUAKE ENGINEERING, cilt.16, sa.12, ss.6131-6162, 2018 (SCI-Expanded)
- X. **Plastic-Damage Modeling of Unreinforced Masonry Walls (URM) Subject to Lateral Loading**
AlGohi B. H., Baluch M. H., Rahman M. K., Al-Gadhib A. H., Demir C.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, cilt.42, sa.9, ss.4201-4220, 2017 (SCI-Expanded)
- XI. **Seismic performance of three-storey full-scale sub-standard reinforced concrete buildings**
Comert M., Demir C., Ateş A. O., Orakcal K., İlki A.
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- XII. **Evaluation of FRP Confinement Models for Substandard Rectangular RC Columns Based on Full-Scale Reversed Cyclic Lateral Loading Tests in Strong and Weak Directions**
Ghatte H. F., COMERT M., DEMIR C., İlki A.
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- XIII. **Cyclic Stress-Strain Relationships of FRP Confined Concrete Members**
Demir C., Darilmaz K., ILKI A.
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- XIV. **Characterization of the materials used in the multi-leaf masonry walls of monumental structures in Istanbul, Turkey**
Demir C., İlki A.
CONSTRUCTION AND BUILDING MATERIALS, cilt.64, ss.398-413, 2014 (SCI-Expanded)
- XV. **The Effects of Loading Rate and Duration on the Axial Behavior of Low Strength and Medium Strength Noncircular Concrete Members Confined by Fiber Reinforced Polymer Sheets**
DEMİR C., Küçükkaplı A., Doyrangöl D., İlki A.
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- XVI. **Performance Based Rapid Seismic Assessment Method (PERA) for Reinforced Concrete Frame Buildings**
Ilki A., Comert M., Demir C., Orakcal K., Ulugtekin D., Tapan M., Kumbasar N.
ADVANCES IN STRUCTURAL ENGINEERING, cilt.17, sa.3, ss.439-459, 2014 (SCI-Expanded)
- XVII. **Failures of structures during the October 23 2011 Tabanli Van and November 9 2011 Edremit Van earthquakes in Turkey**
Tapan M., CÖMERT M., DEMİR C., Sayan Y., ORAKÇAL K., İlki A.
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- XVIII. **Effects of Loading Rate and Duration on Axial Behavior of Concrete Confined by Fiber-Reinforced Polymer Sheets**
Demir C., KOLCU K., İlki A.
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- XIX. **Seismic Retrofit of Brittle and Low Strength RC Columns using Fiber Reinforced Polymer and Cementitious Composites**
İlki A., DEMİR C., BEDİRHANOĞLU I., KUMBASAR N.
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- XX. **FRP retrofit of low and medium strength circular and rectangular reinforced concrete columns**

Düzen Dergilerde Yayınlanan Makaleler

- I. **From experiments to seismic design rules for structures built with reinforced autoclaved aerated concrete panels**

HALICI Ö. F., DALGIÇ K. D., Özeren Ö., Uğurlu K., CÖMERT M., DEMİR C., İLKİ A.
ce/papers, cilt.2, 2018 (Hakemli Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Effect of Conventional Retrofitting Methods on the Seismic Fragility of Substandard RC Buildings: A Cost-Benefit Analysis**

Altinok M. A., Ünal G., Demir C., Yazgan U., İlki A.

International Symposium of the International Federation for Structural Concrete, fib Symposium 2023, İstanbul, Türkiye, 5 - 07 Haziran 2023, cilt.350 LNCE, ss.943-955

- II. **Seismic Performance of Substandard RC Columns Retrofitted with Sprayed GFRM**

Kian N., Demir U., Demir C., Marasli M., İlki A.

10th International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE), İstanbul, Türkiye, 8 - 10 Aralık 2021, cilt.198, ss.1317-1328

- III. **Seismic Performance of CFRP Jacketed Sub-standard RC Columns Under High Axial Stress and Shear Demand**

Demir M. N., Demir U., Demir C., İlki A.

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- IV. **Seismic Risk Assessment and Preliminary Intervention Cost-Benefit Analysis for the Building Stock of Istanbul**

Demir C., Comert M., Aydogdu H. H., İlki A.

3rd European Conference on Earthquake Engineering and Seismology (ECEES), Bucharest, Romanya, 4 - 09 Eylül 2022, ss.212-224

- V. **Preliminary analysis of a representative historical minaret for preparation to shake table tests**

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- VI. **Seismic strengthening of sub-standard rc columns through a novel hybrid thin jacketing method**

Narlıtepe F., Kian N., Demir U., Demir C., İlki A.

2021 fib Symposium of Concrete Structures: New Trends for Eco-Efficiency and Performance, Virtual, Lisbon, Portekiz, 14 - 16 Haziran 2021, cilt.2021-June, ss.1223-1232

- VII. **Development of a Framework for Rapid Earthquake Risk Assessment for Substandard Buildings in Turkey**

İLKİ A., YAZGAN U., DEMİR C., Ateş A. O., Demir U., Küpcü E., Ünal G., Altinok M. A., Karakaya B., Narlıtepe F.

2nd International Workshop on Advanced Materials and Innovative Systems in Structural Engineering: Novel Researches, İstanbul, Türkiye, 20 Aralık 2019

- VIII. **Challenges in Developing Seismic Vulnerability Models for Substandard Building Stocks in Turkey**

YAZGAN U., İLKİ A., DEMİR C., Demir U., Ateş A. O., Küpcü E., Ünal G., Altinok M. A., Karakaya B., Narlıtepe F.

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- IX. **Sünek Tasarlanmamış Mevcut Betonarme Yapıların Depremi Benzeştiren Yükler Altında Davranışı**
İLKİ A., Tore E., comert m., DEMİR C., ates a. o.

21. Ulusal Mekanik Kongresi, Niğde, Türkiye, 2 - 06 Eylül 2019
- X. **From experiments to seismic design rules for structures built with reinforced autoclaved aerated concrete panels**
 halıcı o. f., dalgıç d. k., ozeren o., Ugurlu K., DEMİR C., CÖMERT M., İLKİ A.
 Sixth International Conference on Autoclaved Aerated Concrete, 4 - 06 Eylül 2018
- XI. **Seismic performance of retrofitted sub-standard RC buildings**
 İLKİ A., Tore E., DEMİR C., CÖMERT M.
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- XII. **Seismic Performance of a Full-Scale FRP Retrofitted Sub-standard RC Building**
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- XIII. **Open-air cyclic testing of a large-scale stone masonry specimen**
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 7th International Conference on Advances in Experimental Structural Engineering, 6 - 08 Eylül 2017
- XIV. **Seismic assessment and rehabilitation of Hirka-i Serif Mosque**
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- XV. **Collapse testing of full-scale RC buildings with or without seismic retrofit of columns with FRP jackets**
 TÖRE E., İLKİ A., DEMİR C., MUSTAFA C.
 ", COST Action TU1207 Next Generation Design Guidelines for Composites in Construction: End of Action Conference, Budapest, Macaristan, 3 - 05 Nisan 2017
- XVI. **Full-scale seismic testing of a building constructed with AAC panels**
 Ugurlu K., DEMİR C., CÖMERT M., Dalgic K. D., İLKİ A.
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- XVII. **Seismic assessment and rehabilitation of the XVth century Küçük Mustafa Paşa bath**
 Demir C., Comert M., İlki A., Ozilkiz Celik P.
 6th International Conference on Structural Engineering, Mechanics and Computation, SEMC 2016, Cape-Town, Güney Afrika, 5 - 07 Eylül 2016, ss.1982-1987
- XVIII. **Performances of FRP confinement models for predicting the behavior of full-scale FRP retrofitted columns under simulated seismic actions**
 Ghatte H. F., Comert M., Demir C., İlki A.
 Joint Conference of the 12th International Symposium on Fiber Reinforced Polymers for Reinforced Concrete Structures, FRPRCS 2015 and the 5th Asia-Pacific Conference on Fiber Reinforced Polymers in Structures, APFIS 2015, Nanjing, Çin, 14 - 16 Aralık 2015
- XIX. **Seismic performance of full-scale FRP confined substandard columns subjected to high axial load**
 Comert M., Demir C., Ghatte H. F., İlki A.
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- XX. **Lessons Learnt From 2011 Van Earthquakes in Turkey In Terms Of Structural Engineering**
 İLKİ A., ORAKÇAL K., TAPAN M., DEMİR C., CÖMERT M., TUNCEL E. Y., KUSUNOKI K., TASAI A.
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- XXI. **FRP retrofit of a full-scale 3D RC frame**
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 6th International Conference on FRP Composites in Civil Engineering, CICE 2012, Rome, İtalya, 13 - 15 Haziran 2012
- XXII. **Short term creep tests of low strength rectangular concrete members jacketed with carbon FRP sheets**
 Demir C., Aydogmus A., İlki A.

- 3rd Asia-Pacific Conference on FRP in Structures, APFIS 2012, Sapporo, Japonya, 2 - 04 Şubat 2012
- XXIII. Axial Behavior of FRP Jacketed Extended Rectangular Members Constructed with Low Strength Concrete**
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- XXIV. Effect of unconfined concrete strength on the strength and deformability predictions of FRP confined concrete**
Gedik O., Demir C., İlki A.
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- XXV. Seismic strengthening of low strength concrete columns by external confinement using prefabricated SFRC panels**
İlki A., Akgun D., Goray R., Demir C., Kumbasar N.
19th Australasian Conference on the Mechanics of Structures and Materials, ACMSM19, Christchurch, Yeni Zelanda, 29 Kasım - 01 Aralık 2006, ss.393-399
- XXVI. Seismic analysis of a RC frame building with FRP-retrofitted infill walls**
İlki A., Goksu Ç., Demir C., Kumbasar N.
6th International Conference on Fracture Mechanics of Concrete and Concrete Structures, Catania, İtalya, 17 - 22 Haziran 2007, cilt.1-3, ss.1167-1169
- XXVII. Effects of pre-damage and cyclic compression on axial behavior of FRP jacketed concrete**
İlki A., Demir C., Kumbasar N.
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- XXVIII. Prefabricated SFRC panels for occupant friendly seismic retrofit of reinforced concrete columns**
İlki A., Demir C., Akkaya Ç., Kumbasar N.
8th US National Conference on Earthquake Engineering 2006, San Francisco, CA, Amerika Birleşik Devletleri, 18 - 22 Nisan 2006, cilt.10, ss.6012-6021
- XXIX. Effective Strengthening of RC Frames With and Without Lap Splice Problems**
EROL SOYÖZ G., DEMİR C., İLKİ A., YÜKSEL E., KARADOĞAN H. F.
8th National Conference on Earthquake Engineering, San Francisco, California, USA, 19 - 21 Nisan 2006
- XXX. Static nonlinear analysis of a retrofitted typical reinforced concrete building in Turkey**
Göksu Ç., DEMİR C., DARILMAZ K., İLKİ A.
8th US National Conference on Earthquake Engineering, 18 - 22 Nisan 2006
- XXXI. Axial behavior of RC columns retrofitted with FRP composites**
İlki A., Peker O., Karamuk E., Demir C., Kumbasar N.
Workshop on Advances in Earthquake Engineering for Urban Risk Reduction, İstanbul, Türkiye, 30 Mayıs - 01 Haziran 2005, cilt.66, ss.301-303
- XXXII. Seismic retrofit of infilled reinforced concrete frames with CFRP composites**
Yüksel E., İlki A., Erol Soyöz G., Demir C., Karadogan H. F.
Workshop on Advances in Earthquake Engineering for Urban Risk Reduction, İstanbul, Türkiye, 30 Mayıs - 01 Haziran 2005, cilt.66, ss.285-286
- XXXIII. Moment-curvature relationships for columns jacketed with frp composites**
Demir C., İlki A., Kumbasar N.
2005 fib Symposium on Keep Concrete Attractive, Budapest, Macaristan, 23 - 25 Mayıs 2005, cilt.2, ss.637-642
- XXXIV. Non-linear seismic analysis of a reinforced concrete building with FRP jacketed columns**
İlki A., Darilmaz K., Demir C., Bedirhanoglu I., Kumbasar N.
2005 fib Symposium on Keep Concrete Attractive, Budapest, Macaristan, 23 - 25 Mayıs 2005, cilt.2, ss.687-692
- XXXV. Dolgu Duvarlı Çerçeveelerin Bindirme Boyu Problemi ve Deneysel Bir İnceleme**
İLKİ A., YÜKSEL E., DEMİR C., EROL SOYÖZ G., YILMAZ E., TEZCAN A., SARUHAN H., KARADOĞAN H. F.
II. Yapı Mekaniği Laboratuvarları Toplantısı, Konya, Türkiye, 19 - 20 Haziran 2003

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