

# BILGE DORAN

## PROF.

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### International Researcher IDs

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Yoksis Researcher ID: 174001

## Biography

*He got his bachelors' degree in the Civil Engineering Department at Yildiz Technical University, Istanbul/Turkey in 1991, his master degree in the Civil Engineering Department at Yildiz Technical University, Istanbul/Turkey in 1993, PhD degree in the Civil Engineering Department at Yildiz Technical University, Istanbul/Turkey in 2001. He is still an academic member of the Civil Engineering Department at Yildiz Technical University. His majors area of interests are: Reinforced-Concrete Structures, Earthquake Resistant Structural Design, Performance Based Design, Soil-Structure-Pile interaction, Masonry Structures, Structural Health Monitoring.*

## Learning Knowledge

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Doctorate 1993 - 2001	Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Turkey
Postgraduate 1991 - 1993	Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Turkey
Undergraduate 1987 - 1991	Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department, Turkey

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## Dissertations

Doctorate, Boşluklu Perdelerin Elastik-Plastik Analizi, Yıldız Teknik Üniversitesi, Civil Engineering Department, Construction, 2001

Postgraduate, Eğik Eğilme ve Eksenel Kuvvet Etkisindeki Simetrik Donatılı Dikdörtgen Kesitli Betonarme Kolonların Taşıma Gücüne Göre Hesabı, Yıldız Teknik Üniversitesi, Civil Engineering Department, Construction, 1993

## Academic Titles / Tasks

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Professor 2017 - Continues	Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department
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Associate Professor  
2011 - 2017

Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering  
Department

## Supported Projects

1. Yenidođan H. C., Yüzer N., Doran B., Çakır Ö., Dođan U., Ersoy Ş., Özener P., Project Supported by Higher Education Institutions, 3744653, 2023 - 2024
2. Bakırman T., Bayram B., Akpınar B., Doran B., Berilgen M. M., Yüzer N., TUBITAK Project, Sustainable Damage Detection and Monitoring System for Cultural Heritage using Artificial Intelligence, 2022 - 2024
3. Doran B., Ünsal Aslan Z., Project Supported by Higher Education Institutions, Boşluklu Donatısız Yıđma Duvarların Lif Takviyeli Polimer İle Güçlendirme Teknikleri, 2019 - 2021
4. Doran B., Karslıođlu M., Project Supported by Higher Education Institutions, Boşluklu Yıđma Duvarların Elastik Plastik Analizi, 2019 - 2021
5. Doran B., Uđuryol M. F., Yüzer N., TUBITAK Project, Investigation of The Under Loading Behaviour of Historical Brick Walls Restored With Grouting, 2014 - 2017
6. DORAN B., TUBITAK Project, Çelik Moment Ve Merkezi Çaprazlı Çerçevelerde Arttırılmıř Deprem Etkileri Ve Sismik Enerji Talepleri, 2014 - 2016
7. Aydođan B., Çevik E., Doran B., Yüksel Y., Berilgen M. M., TUBITAK Project, Seismic Behavior of Soten Breakwater Structures and Determination of Performance Parameters, 2013 - 2016
8. Yüzer N., Doran B., Coşandal A., Hazar A. B., Berilgen M. M., Büyükpınar Ç., TUBITAK Project, Determination of Original Brick Wall Material Properties of Historical Buildings and Investigation of Behavior Under Load Using Model ExperimentsT, 2012 - 2015
9. Alacalı S., Doran B., Sayım İ., Hancıođlu B., Akbař B., TUBITAK Project, Gerçek zamanlı kinematik DGPS yöntemiyle uzun periyodlu yapıların dinamik davranıřlarının incelenmesi, 2006 - 2009
10. ALACALI S., DORAN B., TUBITAK Project, Gerçek zamanlı kinematik DGPS yöntemiyle uzun periyodlu yapıların dinamik davranıřlarının incelenmesi (Dynamic Monitoring of Long-Period Structures Using Real-time Kinematic DGPS), 2006 - 2009

## Jury Memberships

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Eskiřehir Teknik Üniversitesi, March, 2024

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, İstanbul Teknik Üniversitesi, February, 2024

Associate Professor Exam, Associate Professor Exam, Yıldız Teknik Üniversitesi, December, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Yıldız Teknik Üniversitesi, October, 2023

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, İstanbul Aydın Üniversitesi, October, 2023

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Yıldız Teknik Üniversitesi, June, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Gebze Teknik Üniversitesi, June, 2023

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Yıldız Teknik Üniversitesi, June, 2023

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Yıldız Teknik Üniversitesi, May, 2023

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Yıldız Teknik Üniversitesi, May, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Yıldız Teknik Üniversitesi, January, 2023

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Yıldız Teknik Üniversitesi, January, 2023

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Yıldız Teknik Üniversitesi, November, 2022

Associate Professor Exam, Associate Professor Exam, Yıldız Teknik Üniversitesi, October, 2022

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Gebze Teknik Üniversitesi, August, 2022

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Mersin Üniversitesi, June, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Yıldız Teknik Üniversitesi, May, 2022

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Yıldız Teknik Üniversitesi, May, 2022

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Yıldız Teknik Üniversitesi, May, 2022

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Yıldız Teknik Üniversitesi, October, 2021

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Yıldız Teknik Üniversitesi, August, 2021

Associate Professor Exam, Associate Professor Exam, Yıldız Teknik Üniversitesi, May, 2021

Associate Professor Exam, Associate Professor Exam, Yıldız Teknik Üniversitesi, February, 2021

Associate Professor Exam, Associate Professor Exam, Yıldız Teknik Üniversitesi, February, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Gebze Teknik Üniversitesi, August, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İstanbul Gedik Üniversitesi, July, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Alanya Alaaddin Keykubat Üniversitesi, May, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Bursa Teknik Üniversitesi, February, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Bursa Teknik Üniversitesi, February, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Aydın Adnan Menderes Üniversitesi, December, 2019

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Gebze Teknik Üniversitesi, August, 2019

Associate Professor Exam, Associate Professor Exam, Yıldız Teknik Üniversitesi, March, 2019

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kocaeli Üniversitesi, February, 2019

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İstanbul Aydın Üniversitesi, January, 2019

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Altınbaş Üniversitesi, January, 2019

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Gebze Teknik Üniversitesi, November, 2018

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Yıldız Teknik Üniversitesi, August, 2018

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İstinye Üniversitesi, August, 2018  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Yıldız Teknik Üniversitesi, March, 2018  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Mef Üniversitesi, March, 2018  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İstanbul Teknik Üniversitesi, February, 2018  
Doctoral Examination, Doktora yeterlik sınavı, YTÜ, November, 2017  
Doctorate, Doktora Tez Savunma, YTÜ, September, 2017  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İstanbul Gedik Üniversitesi, March, 2017  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Tekirdağ Namık Kemal Üniversitesi, November, 2013  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Maltepe Üniversitesi, October, 2012

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

- 1. A new approach for the computation of design shear force in reinforced concrete walls subjected to seismic loads**  
Seçkin A., Doran B.  
STRUCTURAL DESIGN OF TALL AND SPECIAL BUILDINGS, vol.32, 2023 (SCI-Expanded)
- 2. Experimental and Numerical Investigation of Unreinforced Masonry Walls with and without Opening**  
Doran B., Karşoğlu M., Ünsal Aslan Z., Vatansever C.  
INTERNATIONAL JOURNAL OF ARCHITECTURAL HERITAGE, vol.17, no.11, pp.1833-1854, 2023 (SCI-Expanded)
- 3. Investigation of Shear Safety in Reinforced Concrete Walls According to TBEC-2018 Betonarme Perdelerin Kesme Güvenliğinin TBDY-2018'e Göre İncelenmesi**  
SEÇKİN A., DORAN B.  
Teknik Dergi/Technical Journal of Turkish Chamber of Civil Engineers, vol.34, no.5, pp.107-127, 2023 (SCI-Expanded)
- 4. Development of natural frequency in multi-span composite bridges with variable cross-section: Analytical and numerical solutions**  
Saglik H., Balkaya C., Chen A., Ma R., DORAN B.  
STRUCTURES, vol.45, pp.1657-1666, 2022 (SCI-Expanded)
- 5. Experimental Investigation of CFRP Strengthened Unreinforced Masonry Walls with Openings**  
Doran B., Ulukaya S., Ünsal Aslan Z., Karşoğlu M., Yüzer N.  
INTERNATIONAL JOURNAL OF ARCHITECTURAL HERITAGE, vol.16, no.12, pp.1907-1920, 2022 (SCI-Expanded)
- 6. A benchmark comparison and optimization of Gaussian process regression, support vector machines, and M5P tree model in approximation of the lateral confinement coefficient for CFRP-wrapped rectangular/square RC columns**  
YETİLMEZSOY K., Sihag P., KIYAN E., DORAN B.  
ENGINEERING STRUCTURES, vol.246, 2021 (SCI-Expanded)
- 7. Numerical Modeling of Traditional Masonry Walls Strengthened with Grout Injection**  
DORAN B., YÜZER N., AKTAN S., OKTAY D., ULUKAYA S.  
INTERNATIONAL JOURNAL OF ARCHITECTURAL HERITAGE, vol.14, no.10, pp.1517-1532, 2020 (SCI-Expanded)
- 8. Neural network model for seismic response of braced buildings**  
DORAN B., Shen J. ', WEN R., Akbas B., Bozer A.  
PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-STRUCTURES AND BUILDINGS, vol.170, no.3, pp.159-167, 2017 (SCI-Expanded)
- 9. Seismic Performance and Retrofit Evaluation of an Existing Pile-Wharf Structure**  
ERDOĞAN H., DORAN B., SEÇKİN A., Akbas B., ÇELİKOĞLU Y., BOSTAN T.

- Journal of Performance of Constructed Facilities, vol.31, no.6, 2017 (SCI-Expanded)
10. **In-Plane Shear Behavior of Traditional Masonry Walls**  
DORAN B., KÖKSAL H. O., AKTAN S., ULUKAYA S., OKTAY D., YÜZER N.  
INTERNATIONAL JOURNAL OF ARCHITECTURAL HERITAGE, vol.11, no.2, pp.278-291, 2017 (SCI-Expanded)
  11. **Elastoplastic Finite Element Analysis of Masonry Shear Walls**  
Köksal H. O., Doran B., Kuruşçu A. O., Koçak A.  
KSCE JOURNAL OF CIVIL ENGINEERING, vol.20, pp.784-791, 2016 (SCI-Expanded)
  12. **Seismic axial loads in steel moment resisting frames**  
Shen J., Akbas B., Seker O., DORAN B., Wen R., Uckan E.  
INTERNATIONAL JOURNAL OF STEEL STRUCTURES, vol.15, no.2, pp.375-387, 2015 (SCI-Expanded)
  13. **Seismic Evaluation of Existing Wharf Structures Subjected to Earthquake Excitation: Case Study**  
DORAN B., Shen J., Akbas B.  
EARTHQUAKE SPECTRA, vol.31, no.2, pp.1177-1194, 2015 (SCI-Expanded)
  14. **Application of fuzzy logic approach in predicting the lateral confinement coefficient for RC columns wrapped with CFRP**  
Doran B., Yetilmezsoy K., Murtazaoğlu S.  
ENGINEERING STRUCTURES, vol.88, pp.74-91, 2015 (SCI-Expanded)
  15. **Uncertainty Definition on the Constitutive Models for RC Columns Wrapped with FRP**  
DORAN B., ERDÖLEN A., Akbas B., KÜTÜĞ Z., KÖKSAL H. O.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.39, no.11, pp.7535-7548, 2014 (SCI-Expanded)
  16. **An Experimental Investigation on Flexural Behavior of RC Beams Strengthened with Different Techniques**  
Onal M. M., Zengin B., Koçak A., Doran B.  
KSCE JOURNAL OF CIVIL ENGINEERING, vol.18, pp.2162-2169, 2014 (SCI-Expanded)
  17. **Seismic demand on brace-intersected beams in two-story X-braced frames**  
Shen J., Wen R., Akbas B., Doran B., Uckan E.  
ENGINEERING STRUCTURES, vol.76, pp.295-312, 2014 (SCI-Expanded)
  18. **Soil-pile interaction effects in wharf structures under lateral loads**  
DORAN B., SECKIN A.  
STRUCTURAL ENGINEERING AND MECHANICS, vol.51, no.2, pp.267-276, 2014 (SCI-Expanded)
  19. **Effect of various span lengths on seismic demand on column splices in steel moment frames**  
Akbas B., Doran B., Sabol T. A., Seker O., Toru P., Shen J.  
ENGINEERING STRUCTURES, vol.70, pp.94-105, 2014 (SCI-Expanded)
  20. **Computational material modeling of masonry walls strengthened with fiber reinforced polymers**  
KÖKSAL H. O., Jafarov O., DORAN B., AKTAN S., Karakoc C.  
STRUCTURAL ENGINEERING AND MECHANICS, vol.48, no.5, pp.737-755, 2013 (SCI-Expanded)
  21. **Interval finite element analysis of masonry-infilled walls**  
ERDÖLEN A., DORAN B.  
STRUCTURAL ENGINEERING AND MECHANICS, vol.44, no.1, pp.73-84, 2012 (SCI-Expanded)
  22. **Monitoring Roof Displacements with GPS in a Long Period Structure**  
Sayim I., Akbaş B., DORAN B.  
TEKNIK DERGI, vol.23, no.3, pp.6017-6036, 2012 (SCI-Expanded)
  23. **Stress-strain model for fibre-reinforced polymer confined rectangular columns**  
KÖKSAL H. O., DORAN B.  
PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-STRUCTURES AND BUILDINGS, vol.164, no.6, pp.391-408, 2011 (SCI-Expanded)
  24. **Prediction of lateral confinement coefficient in reinforced concrete columns using neural network simulation**  
Alacali S., Akbas B., DORAN B.  
APPLIED SOFT COMPUTING, vol.11, no.2, pp.2645-2655, 2011 (SCI-Expanded)
  25. **Compressive behavior of large-scale square reinforced concrete columns confined with carbon fiber**

### **reinforced polymer jackets**

Turgay T., POLAT Z., Koksal H. O., DORAN B., Karakoc C.  
MATERIALS & DESIGN, vol.31, no.1, pp.357-364, 2010 (SCI-Expanded)

26. **A MAGNIFIED BEAM ALGORITHM TO DETERMINE THE COUPLING RATIOS OF R/C COUPLED SHEAR WALL**  
Doran B.  
STRUCTURAL DESIGN OF TALL AND SPECIAL BUILDINGS, vol.18, no.8, pp.921-929, 2009 (SCI-Expanded)
27. **Nonlinear finite element modeling of rectangular/square concrete columns confined with FRP**  
DORAN B., Koksal H. O., Turgay T.  
MATERIALS & DESIGN, vol.30, no.8, pp.3066-3075, 2009 (SCI-Expanded)
28. **Numerical simulation of conventional RC columns under concentric loading**  
Doran B.  
MATERIALS & DESIGN, vol.30, pp.2158-2166, 2009 (SCI-Expanded)
29. **A practical approach for modeling FRP wrapped concrete columns**  
Köksal O., DORAN B., Turgay T.  
CONSTRUCTION AND BUILDING MATERIALS, vol.23, no.3, pp.1429-1437, 2009 (SCI-Expanded)
30. **Nonlinear modeling of concentrically loaded reinforced blockwork masonry columns**  
Koksal H. O., DORAN B., Ozsoy A. E., ALACALI S.  
CANADIAN JOURNAL OF CIVIL ENGINEERING, vol.31, no.6, pp.1012-1023, 2004 (SCI-Expanded)

### **Articles Published in Other Journals**

1. **Effect of time step interval and time integration schemes in Pseudo-Dynamic analysis**  
Öztürk S., DORAN B., Aksoylar C.  
Structures, vol.50, pp.215-230, 2023 (Scopus)
2. **The positioning performance of low-cost GNSS receivers in the Precise Point Positioning method**  
Karabulut M. F., Aykut N. O., Akpınar B., Oku Topal G., Çakmak Z. B., Doran B., Dindar A. A., Yiğit C. Ö., Bezcioglu M., Zafer A.  
Advances in Geodesy and Geoinformation, vol.71, no.2, 2022 (ESCI)
3. **An investigation on the flexural behaviour of RC beams wrapped with CFRP**  
dalyan i., DORAN B.  
International Advanced Researches and Engineering Journal, vol.5, no.1, pp.97-105, 2021 (Peer-Reviewed Journal)
4. **Seismic Performance Evaluation of Reinforced Concrete Moment Frames with Gravity Columns**  
AKBAŞ B., DORAN B., BOZER A., ŞEKER O., FAYTAROUNI M., Shen J.  
Practice Periodical on Structural Design and Construction, vol.25, no.2, pp.4020004, 2020 (ESCI)
5. **Investigation of Natural Frequency for Continuous Steel Bridges with Variable Cross-sections by using Finite Element Method**  
SAĞLIK H., DORAN B., BALKAYA C.  
International journal of engineering technologies-IJET, 2018 (Peer-Reviewed Journal)
6. **Betonarme Yapılarda Burkulması Önlenmiş Çelik Çapraz Elemanların Doğrusal Olmayan Davranışa Etkisi**  
DORAN B., ŞENOL E., Köse İ.  
Dokuz Eylül Üniversitesi Fen ve Mühendislik Dergisi, vol.59, no.20, pp.299-314, 2018 (Peer-Reviewed Journal)
7. **Hava Kireci Kullanılarak Üretilen Tarihi Yığma Duvarlarda Bünyesel Modelleme**  
DORAN B., Aktan S.  
Dokuz Eylül Üniversitesi Fen ve Mühendislik Dergisi, vol.19, no.56, pp.314-329, 2017 (Peer-Reviewed Journal)
8. **The Failure Probability of The Coupling Beams with Monte Carlo Simulation**  
DORAN B., Alacalı S.  
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.19, no.55, pp.92-99, 2017 (Peer-Reviewed Journal)

9. **Estimating stiffness modification factor for the coupling beam of coupled shear walls using a neural network model**  
AKBAŞ B., DORAN B., ALACALI S., AKŞAR B.  
Karaelmas Fen ve Mühendislik Dergisi, vol.6, no.1, pp.273-282, 2016 (Peer-Reviewed Journal)
10. **Hysteretic Energy to Energy Input Ratio Spectrum In Nonlinear Systems**  
AKBAŞ B., AKŞAR B., DORAN B., ALACALI S.  
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.18, no.53, pp.239-254, 2016 (Peer-Reviewed Journal)
11. **CFRP ile güçlendirilmiş betonarme kolonların basınç dayanımının çoklu regresyon modelleriyle tahmini**  
Murtazaoğlu S., Yetilmezsoy K., Doran B.  
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.31, pp.172-178, 2015 (Peer-Reviewed Journal)
12. **Donatısız yığma duvarların sonlu eleman analizinde elastoplastik yaklaşım**  
JAFAROV O., KOKSAL H. O., DORAN B., KARAKOC C.  
YTÜ-Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.30, no.2, pp.133-143, 2012 (Peer-Reviewed Journal)
13. **Yielding Analysis for Short Columns with Confined Concrete Having Circular Section Considering Strain Hardening in Reinforcement**  
DORAN B., ALACALI S., ÜNAL A.  
Yıldız Teknik Üniversitesi Dergisi, no.4, pp.59-68, 2003 (Peer-Reviewed Journal)
14. **Elastic-Plastic Analysis Of R/C Coupled Shear Walls : The Equivalent**  
Doran B.  
Indian Institute of Science, vol.83, no.1, pp.87-94, 2003 (Peer-Reviewed Journal)
15. **Dikdörtgen Kesitli Kuşatılmış Betonarme Kolonların Pekleşme Etkisi Gözönüne Alınarak Çözümü**  
ALACALI S., DORAN B.  
Yıldız Teknik Üniversitesi Dergisi, no.1, pp.57-70, 2003 (Peer-Reviewed Journal)
16. **Simetrik Boşluklu Perdelerde Elastik Davranış Sınırları İçerisinde Üst Kat Bağ Kirişi Rijitliğinin Belirlenmesi İçin Bir Yaklaşım**  
ALACALI S., DORAN B.  
Yıldız Teknik Üniversitesi Dergisi, no.1, pp.9-18, 2003 (Peer-Reviewed Journal)
17. **Design for short Columns with Confined Concrete Having Circular Section**  
ALACALI S., Doran B., Ünal A.  
Yıldız Teknik Üniversitesi Dergisi, no.2, pp.69-78, 2003 (Peer-Reviewed Journal)
18. **A Statistical Analysis for the Equivalent Stiffness Ratio of the Tie elements of R C Coupled Shear Walls**  
DORAN B., ALACALI S., POLAT Z.  
Yıldız Teknik Üniversitesi Dergisi, no.2, pp.60-68, 2003 (Peer-Reviewed Journal)
19. **Drucker-Prager Akma Kriteri Kullanılarak Betonda Doğrusal Olmayan Davranışın İncelenmesi**  
DORAN B., Köksal H. O.  
YTÜ Dergisi, vol.1, no.1, pp.1-10, 2000 (Peer-Reviewed Journal)
20. **Boşluklu Perde Analizinde Bağ Kirişi Rijitliği Hesabı için Yeni Bir Formül**  
DORAN B., Polat Z.  
İMO, Teknik Dergi, vol.10, no.3, pp.1973-1982, 1999 (Peer-Reviewed Journal)
21. **Betonarme Elemanlarda Sonlu Eleman Uygulamalarında Drucker-Prager Akma Kriteri Kullanılması**  
DORAN B., KOKSAL H. O., Polat Z., KARAKOC C.  
İMO, Teknik Dergi, vol.9, no.2, pp.1617-1625, 1998 (Peer-Reviewed Journal)
22. **Beton ve Betonarme Elemanlarda Doğrusal Olmayan Oktahedral Elastik ve Plastik Bağlıntılar Kullanılarak Yapılan Sonlu Eleman Uygulamaları**  
KOKSAL H. O., DORAN B.  
İMO, Teknik Dergi, vol.8, no.3, pp.1445-1455, 1997 (Peer-Reviewed Journal)

## Books & Book Chapters

1. **Yapı Sistemlerinin Matris Yöntemlerle Hesabı**  
DORAN B.  
NOBEL Yayınevi, 2020
2. **Yapı Mühendisliği Problemlerinde SAP2000 Uygulamaları**  
Doran B., Bozer A., Akbaş B., Şenol E.  
Birsen, İstanbul, 2019
3. **Yapı Sistemlerinin Matris Yöntemlerle Hesabı**  
Doran B.  
YTÜ, İstanbul, 2018
4. **Strain-Based Seismic Performance Evaluation of Prefabricated Structures**  
Seçkin A., Atalay H., Erdoğan H., DORAN B., Akbaş B.  
in: Seismic Isolation, Structural Health Monitoring, and Performance Based Seismic Design in Earthquake Engineering, Kasimzade, A.A., Safak, E., Ventura, C.E., Naeim, F., Mukai, Y., Editor, Springer, Cham, Cham, pp.343-354, 2018
5. **Seismic Energy Demands of Inverted V-Braced Frames**  
Doğru S., Akşar B., Akbaş B., Shen J., DORAN B.  
in: Seismic Isolation, Structural Health Monitoring, and Performance Based Seismic Design in Earthquake Engineering, Kasimzade, A.A., Safak, E., Ventura, C.E., Naeim, F., Mukai, Y. (Eds.), Editor, Springer, Cham, Cham, pp.285-293, 2018
6. **Seismic Response of Coastal and Port Structures**  
YÜKSEL Y., DORAN B., Yuksel T., ÇEVİK E.  
in: Handbook of Coastal and Ocean Engineering, Prof. Dr. Young C. Kim, Editor, World Scientific Publishing, pp.401-434, 2017
7. **Strengthening R/C and Masonry Structures with Fiber Reinforced Polymers in Disaster Areas**  
DORAN B., Koksal H. O., AKBAS B.  
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8. **Yapı Sistemlerinin Matris Yöntemlerle Hesabı**  
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9. **Yapısal Analiz Programı SAP 2000 Bilgi Aktarımı ve Kullanımı**  
DORAN B., ALACALI S.  
Birsen Yayınevi, İstanbul, 2004
10. **Yapısal Analiz Programı SAP 2000 Bilgi Aktarımı ve Kullanımı**  
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11. **Yapı Statiği 1**  
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## Refereed Congress / Symposium Publications in Proceedings

1. **Şubat 2023 Depremlerinin Bölgede Oluşturduğu Etkiler ve Yapay Zeka ile Afet Yönetim Planlaması**  
Doğan U., Yüzer N., Acar U., Akbaba M. F., Akbulut M. T., Akgün C., Akın O., Akkaya H. C., Akpınar B., Aktaş Z., et al.  
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2. **Effect of Location in Plan of Reinforced Concrete Shear Walls on Nonlinear Behavior**  
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7th International Conference on Earthquake Engineering and Seismology (7ICEES), Antalya, Turkey, 06 November 2023

3. **ANALYTICAL INVESTIGATION OF CFRP STRENGTHENED UNREINFORCED MASONRY WALLS**  
Ünsal Aslan Z., Karslıoğlu M., Alacalı S., Doran B.  
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5. **Düşük Maliyetli GNSS Sistemleri ile Dinamik Davranışların Belirlenmesi**  
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8. **EXPERIMENTAL INVESTIGATION OF CFRP STRENGTHENED UNREINFORCED MASONRY WALLS**  
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12. **Finite Element Applications of Stone Masonry Walls**  
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13. **Constitutive Modeling of Unreinforced Masonry Walls With and Without Openings**  
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14. **Elastoplastic Analysis of Masonry Walls With Opening**  
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21. **Nonlinear Analysis of RC Beams Wrapped with CFRP**  
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27. **Mevcut Endüstri Yapısının Birim Şekil Değiştirme Esaslı Performans Değerlendirmesi**  
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28. **Bağımsız Proje Denetiminin Esasları ve Hesap Raporu Hazırlanması**  
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29. **Merkezi Çaprazlı Çerçevelerde Arttırılmış Deprem Etkileri**  
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37. **Mühendislik Sistemlerinde Belirsizliklerin İnterval (Aralık) Analizi Yöntemi ile Tanımlanması**  
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49. **Düsey/Eğik Kazıklı İskele Yapılarının Doğrusal Olmayan Statik Çözümlemesi**  
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7. Kıyı Mühendisliği Konferansı, 01 November 2011, vol.1, pp.1-10
50. **Uzun Periyotlu bir Yapıda Yapısal Sağlık İzlemesi ve Deprem Performansının Belirlenmesi**  
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51. **Computational Analysis of Fibre Reinforced Polymer-Confined Masonry Columns**  
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52. **Kazıklı İskelelerin Deprem Performanslarının Değerlendirilmesi**  
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53. **Uzun Periyotlu bir Yapıda Yapısal Sağlık İzlemesi ve Deprem Performansının Belirlenmesi**  
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54. **Structural Modeling and Use of Real-Time Kinematic GPS for Monitoring of a Long-Period Building**  
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55. **Modelling The in-Plane Behavior of Unreinforced Masonry Walls**  
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Ulusal Deprem Sempozyumu, Bolu, Turkey, 01 January 2009, pp.1-10
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Berilgen M. M., Doran B., Yıldırım S., Bulut A.  
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AKÖZ F., YÜKSEL Y., YÜZER N., DORAN B.  
6. Ulusal Kıyı Mühendisliği Sempozyumu, İzmir, Turkey, 25 October 2007, pp.235-242
59. **Predicting Lateral Confinement Coefficient for R C Rectangular Columns By a Neural Network Model**  
ALACALI S., Akbaş B., Doran B.  
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60. **The Mesh Size Dependence Problem in the Nonlinear Finite Element Analysis of Reinforced Concrete Members**  
DORAN B., Koksal H. O.  
Küçük Çekmece ve Yakın Çevresi Teknik Kongresi, 01 October 2003, vol.1, pp.1-10
61. **Boşluklu Perde Bağlantı Kirişleri Hesabı**  
Doran B., Polat Z.  
Prof. Dr. Rifat Yarar Sempozyumu, İstanbul, Turkey, 01 January 1997, pp.303-310

## Academic and Administrative Experience

2020 - Continues	<b>Head of Department</b>	Yildiz Technical University, Faculty of Civil Engineering, Civil Engineering Department
2019 - Continues	<b>Fakülte Yayın Kurulu Üyeliği</b>	Yildiz Technical University, Faculty of Civil Engineering
2016 - 2019	<b>Deputy Head of Department</b>	Yildiz Technical University, Faculty of Civil Engineering, Civil Engineering Department
2008 - 2011	<b>Deputy Head of Department</b>	Yildiz Technical University, Faculty of Civil Engineering, Civil Engineering Department

## Courses

Yapı Statiği 1, Undergraduate, 2018 - 2019  
İleri Yapı Statiği, Doctorate, 2018 - 2019  
Yapı Statiği 3, Undergraduate, 2018 - 2019  
Yapı Statiği 2, Undergraduate, 2018 - 2019  
Yapı Mühendisliğinde Bilgisayar Uygulamaları, Undergraduate, 2010 - 2011  
Yapı Sistemlerinin Hesabında Matris Yöntemler, Postgraduate, 2010 - 2011  
Betonarme Yapılar ve Temel Tasarımı, Undergraduate, 2010 - 2011  
Betonarme Yapı Tasarımı, Undergraduate, 2010 - 2011

## Advising Theses

Doran B., Betonarme yapılarda perde yerleşiminin doğrusal olmayan davranışa etkisi, Postgraduate, S.Erden(Student), 2024  
Doran B., BOŞLUKLU YIĞMA DUVARLARIN ELASTİK-PLASTİK ANALİZİ, Doctorate, M.KARSLIOĞLU(Student), 2023  
Doran B., Boşluklu donatısız yığma duvarların lif takviyeli polimer ile güçlendirme teknikleri, Doctorate, Z.ÜNSAL(Student), 2022  
Doran B., Donatısız Yığma Duvarların Makro Modelleme Yaklaşımı ile Doğrusal Olmayan Analizi, Postgraduate, E.NURKOVIC(Student), 2022  
Doran B., Donatısız Yığma Duvarların Doğrusal Olmayan Analizi, Postgraduate, M.Buğra(Student), 2020  
Doran B., Gömülü Betonarme Boruların Davranışı ve Boyutlandırılması, Postgraduate, R.ATASOY(Student), 2019  
DORAN B., Lifli Polimerler İle Güçlendirilmiş Betonarme Kirişlerin Sonlu Elemanlar Yöntemi İle Hesabı, Postgraduate, M.AYAYDIN(Student), 2019  
DORAN B., D-Tipi Dışmerkez Çelik Çaprazlı Çerçeve Sistemlerin Yatay Yükler Altında Davranışı, Postgraduate, B.Demirezen(Student), 2019  
DORAN B., Lifli Polimerle Farklı Biçimlerde Güçlendirilmiş Betonarme Kirişlerin Eğilme Performanslarının Belirlenmesi, Doctorate, İ.Dalyan(Student), 2019  
DORAN B., V-Tipi Kısa Bağ Kirişli Çelik Çaprazlı Çerçeve Sistemlerin Deprem Performansı, Postgraduate, F.Demir(Student), 2019  
DORAN B., Betonarme Çerçevesel Bir Yapıda Yapı-Kazık-Zemin Etkileşimi Dikkate Alınarak Kazık Tasarımı, Postgraduate, E.Keskin(Student), 2018  
DORAN B., Değişken Kesitli Sürekli Köprülerde Serbest Doğal Frekans Tahmini, Postgraduate, H.Sağlık(Student), 2018  
Doran B., Zaman integrasyon şemalarının eşdeğer dinamik test sonuçlarına etkisi, Postgraduate, S.ÖZTÜRK(Student), 2017

DORAN B., Düzlem İçi Yükler Etkisinde Kalan Yığma Duvarlarda Bünyesel Modelleme, Doctorate, S.Aktan(Student), 2016  
DORAN B., Betonarme Yapılarda Burkulması Önlenmiş Çapraz Elemanların Doğrusal Olmayan Davranışa Etkisi, Postgraduate, İ.Köse(Student), 2015  
DORAN B., Karbon Esaslı Lifli Polimerler (CFRP) İle Güçlendirilmiş Betonarme Kolonlarda Sargılı Beton Basınç Dayanımının Bulanık Mantık Yaklaşımı, Postgraduate, S.Murtazaoglu(Student), 2013  
DORAN B., Düşey Ve Eğik Kazıklı İskele Yapılarında Zemin-Kazık Etkileşiminin Detaylı Ve Basitleştirilmiş Modeller İle İrdelenmesi, Postgraduate, S.Oruç(Student), 2013  
DORAN B., Kazık destekli yanaşma yapılarının sismik yükler altında tasarımı, Postgraduate, M.Köroğlu(Student), 2012  
DORAN B., Lifli Polimerle Güçlendirilmiş Yığma Duvarların Modellenmesi, Doctorate, O.Jafarov(Student), 2012  
DORAN B., Düşey ve/veya Eğik Kazıklı İskele Yapılarında Zemin Yapı Etkileşimi, Postgraduate, Ş.Korkmaz(Student), 2012  
DORAN B., Yığma duvar ve temellerde doğrusal olmayan modelleme, Doctorate, A.Osman(Student), 2012  
DORAN B., Yanaşma Yapılarının Deprem Performanslarının Belirlenmesi, Postgraduate, A.Seçkin(Student), 2012  
DORAN B., Rijit Öteleme Hareketine Maruz Mevcut Bir Yapının Deprem Performansının Doğrusal Olmayan Yöntem ile Belirlenmesi, Postgraduate, M.Akkuş(Student), 2011  
DORAN B., Rijit Öteleme Hareketine Maruz Mevcut Dolgu Duvarlı Bir Yapının Deprem Performansının Artımsal Eşdeğer Deprem Yükü Yöntemi ile Belirlenmesi, Postgraduate, Z.Gürpınar(Student), 2011  
DORAN B., Yığma Yapı Elemanları ve Güçlendirme Teknikleri, Postgraduate, Ç.Kaya(Student), 2010  
DORAN B., Dolgu Duvarların Modellenmesinde Kullanılan Eşdeğer Basınç Çubuğu Yöntemlerinin Karşılaştırılması, Postgraduate, Ö.Tar(Student), 2010  
DORAN B., Uzun Periyotlu Betonarme Binaların Doğrusal Olmayan Hesap Yöntemi ile Değerlendirilmesi, Postgraduate, M.Pürselim(Student), 2009  
DORAN B., Mevcut Bir Binanın Performansa Dayalı Tasarım İlkelerine göre Güçlendirilmesi, Postgraduate, N.Gürtekin(Student), 2009  
DORAN B., Mevcut Kusurlu Bir Betonarme Yapıda Zemin-Yapı Etkileşimi, Postgraduate, E.Uzay(Student), 2009  
DORAN B., Mevcut Bir Yüksek Yapıda Rüzgâr Yükü Nedeniyle Meydana Gelecek P-? Etkileri, Postgraduate, Ö.Ayız(Student), 2007  
DORAN B., Tünel Kazısı Nedeniyle Meydana Gelen Zemin Oturmaları ve Bunların Mevcut Bir Yapıya Olan Etkisi, Postgraduate, A.Bulut(Student), 2007  
DORAN B., FRP Sargılı Dikdörtgen Kesitli Betonarme Kolonların Yük Taşıma Kapasitelerinin Farklı Davranış Modellerine Göre İrdelenmesi, Postgraduate, E.BULUT(Student), 2006  
DORAN B., Mevcut Bir Okul Yapısının Performans Yaklaşımı ile Güçlendirilmesi, Postgraduate, F.Akkan(Student), 2006

## Scientific Refereeing

Engineering Structures, SCI Journal, July 2024

Structures, SCI Journal, February 2024

Engineering Structures, SCI Journal, January 2024

Engineering Structures, SCI Journal, September 2022

CONSTRUCTION AND BUILDING MATERIALS, SCI Journal, March 2022

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Gebze Teknik Üniversitesi, Scientific Consultancy, Yıldız Technical University, Faculty Of Civil Engineering, Civil Engineering Department, Turkey, 2023 - Continues  
Doğal Afet Sigorta Kurumu, Project Consultancy, Yıldız Technical University, Faculty Of Civil Engineering, Civil Engineering Department, Turkey, 2019 - Continues

## Tasks In Event Organizations

Doran B., Türkiye İnşaat Mühendisliği 18. Teknik Kongre ve Sergisi, Scientific Congress, İstanbul, Turkey, Kasım 2022  
Doran B., 6th International Conference on Earthquake Engineering and Seismology (6ICEES), Scientific Congress, Kocaeli, Turkey, Ekim 2021  
Doran B., Akyıldız Alçura G., SELÇUK M. E., 14th International Congress on Advances in Civil Engineering, Scientific



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## Metrics

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## Research Areas

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