

## Assoc. Prof. Murat Serdar KIRÇIL

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAZ-9110-2020

ScopusID: 53877859700

Yoksis Researcher ID: 125940

### Education Information

Doctorate, Yıldız Technical University, Fen Bilimleri, İnşaat Müh., Turkey 1998 - 2005

Yıldız Technical University, Fen Bilimleri, İnşaat Müh., Turkey 1995 - 1998

Undergraduate, Yıldız Technical University, Faculty Of Civil Engineering, İnşaat Müh., Turkey 1990 - 1994

### Research Areas

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

### Academic Titles / Tasks

Associate Professor, Yıldız Technical University, Faculty Of Civil Engineering, Civil Engineering Department, 2014 - Continues

Assistant Professor, Yıldız Technical University, Faculty Of Civil Engineering, Civil Engineering Department, 2006 - 2014

Research Assistant, Yıldız Technical University, Faculty Of Civil Engineering, Civil Engineering Department, 1995 - 2006

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

- I. **Collapse Potential of an Existing Reinforced Concrete Bridge Structure**  
Yılmaz Z., Kirçil M. S.  
APPLIED SCIENCES, vol.15, no.7, pp.3500-3520, 2025 (SCI-Expanded)
- II. **Effect of Soil–Structure Interaction on the Damage Probability of Multistory RC Frame Buildings with Shallow Foundations**  
KIRÇIL M. S., Ethemoglu H.  
Buildings, vol.15, no.4, 2025 (SCI-Expanded)
- III. **A Comparison of the Targeted and Analytic Performance of a Post-Tensioned Frame Structure**

### **Through Fragility Analysis**

KIRÇIL M. S., Kirici Z.

Buildings, vol.14, no.12, 2024 (SCI-Expanded)

- IV. **Examination of the Efficiency of Retrofitting Methods through Fragility Analysis**  
Kırçıl M. S., Kocabey E.  
TEKNIK DERGI, vol.30, no.4, pp.9243-9260, 2019 (SCI-Expanded)
- V. **Inelastic Displacement Ratios for Evaluation of Degrading Peak - Oriented SDOF Systems**  
Börekçi M., Kırçıl M. S., Ekiz I.  
PERIODICA POLYTECHNICA-CIVIL ENGINEERING, vol.62, pp.33-47, 2018 (SCI-Expanded)
- VI. **Collapse period of degrading SDOF systems**  
Börekçi M., Kırçıl M. S., Ekiz I.  
EARTHQUAKE ENGINEERING AND ENGINEERING VIBRATION, vol.13, pp.681-694, 2014 (SCI-Expanded)
- VII. **Determination of the Flexural Damage Curvature Capacity of R/C Columns**  
Aydemir C., KIRÇIL M. S., Hancıoğlu B., Zorbozan M.  
TEKNIK DERGI, vol.22, no.4, pp.5613-5642, 2011 (SCI-Expanded)
- VIII. **Fragility analysis of R/C frame buildings based on different types of hysteretic model**  
Börekçi M., Kırçıl M. S.  
STRUCTURAL ENGINEERING AND MECHANICS, vol.39, pp.795-812, 2011 (SCI-Expanded)
- IX. **Fragility analysis of mid-rise R/C frame buildings**  
Kırçıl M. S., Polat Z.  
ENGINEERING STRUCTURES, vol.28, no.9, pp.1335-1345, 2006 (SCI-Expanded)

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

- I. **Assessment of Collapse Potential of Degrading SDOF Systems**  
Börekçi M., Kırçıl M. S.  
International Journal of Civil and Environmental Engineering, vol.9, pp.468-472, 2015 (Peer-Reviewed Journal)
- II. **EVALUATION OF INELASTIC DISPLACEMENT RATIOS OF BILINEAR SDOF SYSTEMS**  
Börekçi M., Kırçıl M. S., Ekiz İ.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.2014, no.32, pp.189-199, 2014 (Peer-Reviewed Journal)

### **Papers Published in Refereed Scientific Meetings**

- I. **Dayanım ve Rijitlik Azalmasının TSD Sistemlerin Elastik Ötesi Yerdeğiştirme Sabiti Üzerine Etkisi**  
KIRÇIL M. S., EKİZ İ.  
8. Ulusal Deprem Mühendisliği Konferansı, 01 May 2015
- II. **Effectiveness of FRP Strengthening on Earthquake Performance of a RC Infilled Frame Structure**  
KIRÇIL M. S., BÖREKÇİ M., KESKİN R. S. O.  
Recent Advances in Earthquake Engineering and Structural Dynamics, Vienna, 01 August 2013
- III. **Seismic Performance Evaluation of A Post-Tensioned Frame Building**  
KIRÇIL M. S., ULUSOY S. İ.  
4th International Conference on Computational Methods in Structural Dynamics & Earthquake Engineering, Cos, 01 June 2013
- IV. **Estimation of Characteristic Period for Energy Based Seismic Design**  
POLAT Z., KIRÇIL M. S.  
The 2008 Seismic Engineering International Conference commemorating the 1908 Messina and Reggio Calabria Earthquake (MERCEA'08), Reggio Calabria & Messina, 01 August 2008
- V. **Betonarme Kolonlarda Performans Değerlendirmesi için Analitik Bir İrdeleme**

AYDEMİR C., KIRÇIL M. S.

7.Uluslararası İnşaat Mühendisliğinde Gelişmeler Konferansı, İstanbul, 01 October 2006

VI. **Fragility Analysis of R/C Frames on Firm Sites**

KIRÇIL M. S., HANCIOĞLU B.

8th US National Conference on Earthquake Engineering, San Francisco, 01 April 2006

VII. **Seismic Rehabilitation: A Case Study**

KIRÇIL M. S., HANCIOĞLU B., POLAT Z.

International Conference on Concrete Repair, Rehabilitation and Retrofitting, Cape Town, 01 October 2005

VIII. **Mevcut Taşıyıcı Sistemde Ard-germeli Çerçeveler Eklenerek Güçlendirilmiş Bir Yapının Deprem Güvenliğinin Doğrusal Olmayan Statik Analizle Değerlendirilmesi**

KIRÇIL M. S., HANCIOĞLU B., DOYRANLI B.

6.Uluslararası İnşaat Mühendisliğinde Gelişmeler Konferansı, İstanbul, 01 October 2004

IX. **Geleneksel Yöntemlerle Güçlendirilmiş Bir Yapının Doğrusal Olmayan Statik Analizle Değerlendirilmesi**

KIRÇIL M. S., HANCIOĞLU B., POLAT Z.

5.Ulusal Deprem Mühendisliği Konferansı, İstanbul, 01 May 2003

## Supported Projects

Yüzer N., Yardım M. S., Turgut S., Yılmaz Genç S., Dikçınar Sel B., Erdem Okumuş D., Kılıç B., Özarpacı S., Bayrak O. C., Sakarya A., et al, Project Supported by Higher Education Institutions, Şubat 2023 Depremlerinin Bölgede Oluşturduğu Etkiler ve Yapay Zeka ile Afet Yönetim Planlaması, 2023 - 2024

KIRÇIL M. S., Project Supported by Higher Education Institutions, Betonarme Yüksek Bir Yapıda Hasar Olasılığının Belirlenmesi, 2014 - 2014

## Memberships / Tasks in Scientific Organizations

İnşaat Mühendisleri Odası İstanbul Şubesi, Board Member, 2014 - Continues

Deprem Mühendisliği Türk Milli Komitesi, Member, 2008 - Continues

İnşaat Mühendisleri Odası İstanbul Şubesi, Board Member, 1998 - 2000

## Peer Reviews in Scientific Publications

Engineering Structures, SCI Journal, Continues

Earthquake Engineering and Engineering Vibration, SCI Journal, Continues

Structural Engineering and Mechanics, SCI Journal, Continues

## Metrics

Publication: 22

Citation (WoS): 111

Citation (Scopus): 192

H-Index (WoS): 3

H-Index (Scopus): 4