

## Assoc. Prof. Murat Serdar KIRÇIL

### Personal Information

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### 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. **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)
- II. **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)
- III. **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)
- IV. **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)
- V. **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)

**VI. 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.32, no.2, pp.189-199, 2014 (ESCI)

## Refereed Congress / Symposium Publications in Proceedings

**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**

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

## **Scientific Refereeing**

Engineering Structures, SCI Journal, Continues

Structural Engineering and Mechanics, SCI Journal, Continues

Earthquake Engineering and Engineering Vibration, SCI Journal, Continues

## **Metrics**

Publication: 18

Citation (WoS): 109

Citation (Scopus): 162

H-Index (WoS): 3

H-Index (Scopus): 4