

## Doç. Dr. Yıldırım Serhat ERDOĞAN

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Yoksis Araştırmacı ID: 203258

### Eğitim Bilgileri

Doktora, İstanbul Teknik Üniversitesi, İnşaat Mühendisliği, Mekanik, Türkiye 2007 - 2013

Yüksek Lisans, İstanbul Teknik Üniversitesi, İnşaat Mühendisliği, Mekanik, Türkiye 2005 - 2007

### Yabancı Diller

İngilizce, C1 İleri

### Araştırma Alanları

İnşaat Mühendisliği, Mekanik, Yapı Mekaniği, Yapı Dinamiği, Mühendislik ve Teknoloji

### Akademik Unvanlar / Görevler

Doç. Dr., Yıldız Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, 2020 - Devam Ediyor

Dr. Öğr. Üyesi, Yıldız Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, 2018 - Devam Ediyor

Yrd. Doç. Dr., Yıldız Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, 2015 - 2018

Araştırma Görevlisi, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, İnşaat Mühendisliği, 2009 - 2013

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **A computationally efficient method for optimum tuning of single-sided pounding tuned mass dampers for structural vibration control**  
ERDOĞAN Y. S., ADA M.  
International Journal of Structural Stability and Dynamics, cilt.21, 2021 (SCI-Expanded)
- II. **A computer-vision based vibration transducer scheme for structural health monitoring applications**  
ERDOĞAN Y. S., ADA M.  
SMART MATERIALS AND STRUCTURES, cilt.29, sa.8, 2020 (SCI-Expanded)
- III. **Evaluation of Existing Damage Patterns and Seismic Assessment of Historical Davutpasa Barracks via Operational-Modal Analysis**  
Gani E., ERDOĞAN Y. S., KOÇAK A.  
Journal of Performance of Constructed Facilities, cilt.34, sa.4, 2020 (SCI-Expanded)

- IV. **A study on the crack detection in beams using linear and nonlinear normal modes**  
ERDOĞAN Y. S.  
ADVANCES IN STRUCTURAL ENGINEERING, cilt.23, sa.7, ss.1305-1321, 2020 (SCI-Expanded)
- V. **Seismic response of a highway bridge in case of vehicle-bridge dynamic interaction**  
Erdoğan Y. S., Çatbaş N.  
Earthquakes and Structures, cilt.18, sa.1, ss.1-14, 2020 (SCI-Expanded)
- VI. **Investigation of the Seismic Behavior of a Historical Masonry Minaret Considering the Interaction with Surrounding Structures**  
Erdoğan Y. S., Kocaturk T., Demir C.  
JOURNAL OF EARTHQUAKE ENGINEERING, cilt.23, ss.112-140, 2019 (SCI-Expanded)
- VII. **Investigation of existing damage mechanism and retrofitting of Skeuophylakion under seismic loads**  
KOCATURK T., ERDOĞAN Y. S., DEMİR C., GOKCE A., ULUKAYA S., YÜZER N.  
ENGINEERING STRUCTURES, cilt.137, ss.125-144, 2017 (SCI-Expanded)
- VIII. **Seismic analysis and investigation of damage mechanism of 57th infantry regiment memorial using finite-discrete element method**  
ERDOĞAN Y. S., Kocaturk T., DEMİR C.  
BULLETIN OF EARTHQUAKE ENGINEERING, cilt.15, sa.4, ss.1397-1424, 2017 (SCI-Expanded)
- IX. **Discrete and Continuous Finite Element Models and Their Calibration via Vibration and Material Tests for the Seismic Assessment of Masonry Structures**  
ERDOĞAN Y. S.  
INTERNATIONAL JOURNAL OF ARCHITECTURAL HERITAGE, cilt.11, sa.7, ss.1026-1045, 2017 (SCI-Expanded)
- X. **Earthquake behavior of M1 minaret of historical Sultan Ahmed Mosque (Blue Mosque)**  
Kocaturk T., Erdosgan Y. S.  
STRUCTURAL ENGINEERING AND MECHANICS, cilt.59, sa.3, ss.539-558, 2016 (SCI-Expanded)
- XI. **Investigation of Uncertainty Changes in Model Outputs for Finite-Element Model Updating Using Structural Health Monitoring Data**  
Erdogan Y. S., Gul M., Catbas F. N., Bakir P. G.  
JOURNAL OF STRUCTURAL ENGINEERING, cilt.140, sa.11, 2014 (SCI-Expanded)
- XII. **Structural identification (St-Id) using finite element models for optimum sensor configuration and uncertainty quantification**  
Erdogan Y. S., CATBAS F. N., Bakir P. G.  
FINITE ELEMENTS IN ANALYSIS AND DESIGN, cilt.81, ss.1-13, 2014 (SCI-Expanded)
- XIII. **Evaluation of the different genetic algorithm parameters and operators for the finite element model updating problem**  
Erdogan Y. S., Bakir P. G.  
COMPUTERS AND CONCRETE, cilt.11, sa.6, ss.541-569, 2013 (SCI-Expanded)
- XIV. **DAMAGE IDENTIFICATION IN REINFORCED CONCRETE BEAMS BY FINITE ELEMENT MODEL UPDATING USING PARALLEL AND HYBRID GENETIC ALGORITHMS**  
Bakir P. G., Erdogan Y. S.  
INTERNATIONAL JOURNAL OF COMPUTATIONAL METHODS, cilt.10, sa.3, 2013 (SCI-Expanded)
- XV. **Inverse propagation of uncertainties in finite element model updating through use of fuzzy arithmetic**  
Erdogan Y. S., BAKIR P. G.  
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, cilt.26, sa.1, ss.357-367, 2013 (SCI-Expanded)

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Cam Fiber Takviyeli Kutu Kirişlerin Eğilme Altında Sözde Sünekliğinin İncelenmesi**  
Erdoğan Y. S., İnal M. G.  
4 th International Symposium of Engineering Applications on Civil Engineering and Earth Sciences 2023

(IEACES2023), Karabük, Türkiye, 31 Mayıs - 02 Temmuz 2023, ss.333-342

**II. Earthquake Response of A Highway Bridge In Case Of Vehicle-Bridge Interaction**

Erdoğan Y. S., Ada M.

4th Eurasian Conference on Civil and Environmental Engineering, İstanbul, Türkiye, 17 - 19 Haziran 2019, ss.1-11

**III. Effect of Soil Structure Interactions on the Seismic Behaviour of a Contemporary Monumental Masonary Structure**

ERDOĞAN Y. S., ADA M.

16th European Earthquake Engineering, Selanik, Yunanistan, 18 Haziran 2018, ss.1-11

## **Metrikler**

Yayın: 18

Atıf (WoS): 129

Atıf (Scopus): 207

H-İndeks (WoS): 7

H-İndeks (Scopus): 8