

## Assoc. Prof. Atakan MANGIR

### Personal Information

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### International Researcher IDs

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### Education

Doctorate, Istanbul University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (Dr), Turkey 2014 - 2018

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Yapı Mühendisliği (YI) (Tezli), Turkey 2011 - 2014

Undergraduate, Istanbul Kultur University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 2007 - 2011

### Foreign Languages

English, C2 Mastery

### Dissertations

Doctorate, Düşük dayanımlı betonarme yapılarda kolon-kiriş birleşim bölgelerinin deprem performansının deneysel olarak incelenmesi, Istanbul University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (Dr), 2018

Postgraduate, STRENGTH AND STABILITY OF THIN WALLED STEEL COLUMNS IN STORAGE RACK STRUCTURES, Istanbul Technical University, Fen Bilimleri Enstitüsü, Yapı Mühendisliği (YI) (Tezli), 2014

### Academic Positions

Assistant Professor, Istanbul Medipol University, Mühendislik Ve Doğa Bilimleri Fakültesi, İnşaat Mühendisliği Bölümü, 2019 - Continues

### Academic and Administrative Experience

Deputy Head of Department, Istanbul Medipol University, Mühendislik Ve Doğa Bilimleri Fakültesi, İnşaat Mühendisliği Bölümü, 2020 - Continues

### Courses

Undergraduate

Computer Aided Design and Analysis, Undergraduate, 2021 - 2022  
Technical Drawing for Civil Engineers, Undergraduate, 2019 - 2020  
Computer Aided Technical Drawing, Undergraduate, 2019 - 2020  
İnşaat Mühendisleri İçin Teknik Çizim, Undergraduate, 2019 - 2020

## **Journal articles indexed in SCI, SSCI, and AHCI**

- I. **Earthquake Performance Analysis of a Masonry School Building's Retrofitted State by the Equivalent Frame Method**  
Okumuş V., Mangır A.  
TURKISH JOURNAL OF CIVIL ENGINEERING, vol.36, no.1, pp.29-49, 2025 (SCI-Expanded)
- II. **Pre-earthquake fuzzy logic-based rapid hazard assessment of reinforced concrete buildings**  
MANGIR A., OKUMUŞ V.  
Case Studies in Construction Materials, vol.19, 2023 (SCI-Expanded)
- III. **Innovative Equivalent Elastic Modulus Based Stress Calculation Methodology for Reinforced Concrete Columns**  
ŞEN Z., MANGIR A.  
Buildings, vol.13, no.8, 2023 (SCI-Expanded)
- IV. **Fuzzy Inference System (FIS) Model for the Seismic Parameters of Code-Based Earthquake Response Spectra**  
MANGIR A.  
Buildings, vol.13, no.8, 2023 (SCI-Expanded)
- V. **Determination of the change in the structural performance of an RC building due to a nearby deep excavation**  
Mangır A., Çoşgun T., Sayın B., Okumuş V., Güneş B.  
STRUCTURES, vol.49, pp.792-806, 2023 (SCI-Expanded)
- VI. **Retrofitting technique effectiveness and seismic performance of multi-rise RC buildings: A case study**  
ÇOŞGUN T., SAYIN B., GÜNEŞ B., MANGIR A.  
Case Studies in Construction Materials, vol.16, 2022 (SCI-Expanded)
- VII. **Seismic assessment of a reconstructed historic masonry structure: A case study on the ruins of Bigali castle mosque built in the early 1800s**  
GÜNEŞ B., ÇOŞGUN T., SAYIN B., Ceylan O., MANGIR A., Gumusdag G.  
Journal of Building Engineering, vol.39, 2021 (SCI-Expanded)
- VIII. **Experimental behaviour and failure of beam-column joints with plain bars, low-strength concrete and different anchorage details**  
Cosgun C., Turk A. M., MANGIR A., ÇOŞGUN T., Kiyamaz G.  
Engineering Failure Analysis, vol.109, 2020 (SCI-Expanded)
- IX. **Seismic load tests on exterior beam-column connections of existing RC structures**  
Cosgun T., Cosgun C., Kanishka A., Mangır A., Sayın B., Turk A. M.  
GRADEVINAR, vol.71, no.12, pp.1129-1141, 2019 (SCI-Expanded)
- X. **Seismic performance of an existing low-rise RC building considering the addition of a new storey**  
GÜNEŞ B., ÇOŞGUN T., SAYIN B., MANGIR A.  
Revista de la Construcción, vol.18, no.3, pp.459-475, 2019 (SCI-Expanded)
- XI. **Strength upgrading of steel storage rack frames in the down-aisle direction**  
El Kadi B., Cosgun C., Mangır A., Kiyamaz G.  
STEEL AND COMPOSITE STRUCTURES, vol.23, no.2, pp.143-152, 2017 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Fuzzy inference system model for the spectrum site coefficients of the Türkiye Building Earthquake Code (2018)**  
OKUMUŞ V., Mangir A.  
Journal of Structural Engineering & Applied Mechanics (Online), vol.6, no.4, pp.282-305, 2023 (Peer-Reviewed Journal)
- II. **Fuzzy inference system model for the spectrum characteristic periods of the Türkiye Building Earthquake Code (2007)**  
Mangir A., OKUMUŞ V.  
Journal of Structural Engineering & Applied Mechanics (Online), vol.6, no.4, pp.364-384, 2023 (Peer-Reviewed Journal)
- III. **Seismic performance assessment of a historical masonry-infilled RC building located in the historical peninsula of Istanbul (1940s)**  
Güneş B., Mangir A., Çoşgun T., Sayın B., Akçay C.  
STRUCTURES, vol.45, pp.951-968, 2022 (Scopus)
- IV. **Earthquake performance of collapsed school building under Van-Tabanlı (Mw=7.2) earthquake**  
ÇOŞGUN C., MANGIR A.  
Challenge Journal of Structural Mechanics, vol.4, no.4, pp.159-175, 2018 (Peer-Reviewed Journal)
- V. **The effects of a column damage to structural behavior of an example low-strength concrete building**  
MANGIR A., ÇOŞGUN T., GÜNEŞ B.  
Mühendislik Bilimleri ve Tasarım Dergisi, vol.6, no.2, pp.273-281, 2018 (Peer-Reviewed Journal)

## Books

- I. **Chapter 4: Examination of detected damage types and repair/retrofitting methods in an existing historic timber structure**  
GÜNEŞ B., MANGIR A.  
in: Academic Perspectives for Engineering Science Metaphors, Ali ÖZ, Editor, SRA Academic Publishing (Strategic Researches Academy), Klaipeda, pp.67-86, 2020
- II. **Chapter 3: Determination of the seismic performance of masonry structures via the nonlinear analysis method**  
GÜNEŞ B., MANGIR A.  
in: Academic Perspectives for Engineering Science Metaphors, Ali ÖZ, Editor, SRA Academic Publishing (Strategic Researches Academy), Klaipeda, pp.43-66, 2020

## Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Structural behaviour of sewage shaft structures under high reachstacker utilization loads**  
MANGIR A., OKUMUŞ V.  
3rd International Civil Engineering and Architecture Conference (ICEARC'23), Trabzon, Turkey, 12 - 14 October 2023, vol.1, pp.1237-1251, (Full Text)
- II. **Yığma bir okul yapısının eşlenik çubuk yöntemi ile güçlendirilmiş durum deprem performans analizi**  
OKUMUŞ V., MANGIR A.  
23. Ulusal Mekanik Kongresi, Konya, Turkey, 4 - 08 September 2023, pp.655-668, (Full Text)
- III. **Seismic Performance of Existing RC Framed Buildings Using Pushover Analysis Method**  
GÜNEŞ B., MANGIR A., ÇOŞGUN T., SAYIN B.  
6th International Conference on Harmony Search, Soft Computing and Applications, ICHSA 2020, İstanbul, Turkey, 22 - 24 April 2020, vol.1275, pp.235-248, (Full Text)

- IV. Structural Strengthening of RC Buildings for Enhanced Seismic Resistance**  
GÜNEŞ B., ÇOŞGUN T., MANGIR A., SAYIN B.  
6th International Conference on Harmony Search, Soft Computing and Applications, ICHSA 2020, İstanbul, Turkey, 22 - 24 April 2020, vol.1275, pp.219-233, (Full Text)
- V. Evaluation of the seismic performance of existing RC structures via the nonlinear static pushover analysis method**  
GÜNEŞ B., MANGIR A.  
IV. International Congress on New Trends in Science, Engineering and Technology (ICONTRENDS 2020), St. Petersburg, Russia, 7 - 08 July 2020, pp.55-67, (Full Text)
- VI. Determination of the seismic performance of masonry structures via the nonlinear analysis method**  
GÜNEŞ B., MANGIR A.  
5th International Conference on Multidisciplinary Sciences (ICOMUS 2020), Turkey, 28 - 30 May 2020, vol.1, pp.38, (Summary Text)
- VII. Examination of detected damage types and repair/retrofitting methods in an existing historic timber structure**  
GÜNEŞ B., MANGIR A.  
5th International Conference on Multidisciplinary Sciences (ICOMUS 2020), Turkey, 28 - 30 May 2020, vol.1, pp.37, (Summary Text)
- VIII. Seismic Performance Evaluation of an Existing Mid-rise Masonry Building based on Turkish Building Earthquake Code**  
GÜNEŞ B., SAYIN B., ÇOŞGUN T., MANGIR A.  
ICENS 2019: 5th INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, 12 - 16 June 2019, (Full Text)
- IX. A strengthening technique applied on an existing masonry building with insufficient seismic capacity**  
GÜNEŞ B., ÇOŞGUN T., MANGIR A., SAYIN B., OKUMUŞ V.  
International Civil Engineering and Architectural Conference (ICEARC'19), Trabzon, Turkey, 17 - 20 April 2019, vol.1, pp.1302-1310, (Full Text)
- X. Seismic evaluation of an existing RC building based on TEC (2007)**  
GÜNEŞ B., SAYIN B., ÇOŞGUN T., MANGIR A.  
International Civil Engineering And Architectural Conference (ICEARC'19), Trabzon, Turkey, 17 - 20 April 2019, pp.1283-1292, (Full Text)
- XI. Seismic evaluation of existing masonry buildings and a strengthening proposal for a case study**  
GÜNEŞ B., MANGIR A., SAYIN B., ÇOŞGUN T.  
International Civil Engineering and Architectural Conference (ICEARC'19), Trabzon, Turkey, 17 - 20 April 2019, pp.1293-1301, (Full Text)
- XII. Assessment of an existing masonry structure using linear and nonlinear material models**  
GÜNEŞ B., MANGIR A., OKUMUŞ V.  
Fourth Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures (SMAR 2017), Zürich, Switzerland, 13 - 15 September 2017, pp.290, (Full Text)