

## Lect. PhD SEMİ EMRAH ASLAY

### Personal Information

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### International Researcher IDs

ScholarID: q66NK

ORCID: 0000-0002-0127-5474

Publons / Web Of Science ResearcherID: AAH-7569-2020

ScopusID: 57215818459

Yoksis Researcher ID: 227205

### Education Information

Doctorate, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2018 - 2023

Postgraduate, Erzurum Technical University, Mühendislik-Mimarlık Fakültesi, İnşaat Mühendisliği, Turkey 2016 - 2017

Undergraduate, Eskisehir Osmangazi University, Mühendislik -Mimarlık Fakültesi, İnşaat Mühendisliği, Turkey 2004 - 2008

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Civil Engineering, Structure, Concrete Structures, Building Management, Informatics in Construction Management, Construction Management, Engineering and Technology

### Academic Titles / Tasks

Lecturer, Erzincan Binali Yildirim University, Meslek Yüksekokulu, İnşaat Bölümü, 2015 - Continues

### Courses

Yapı Metraji ve Maliyeti, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Bilgisayar Destekli Tasarım, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Bilgisayar Destekli Çizim, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022

Hidrolik ve Hidroloji, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022

Meslek Resmi, Associate Degree, 2023 - 2024, 2022 - 2023, 2021 - 2022

Zemin Mekaniği 1, Associate Degree, 2021 - 2022

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

- I. **Integrated Design Optimization Process for Building Projects**  
Aslay S. E., Dede T., Kaveh A.  
PERIODICA POLYTECHNICA. CIVIL ENGINEERING, vol.1, pp.1-9, 2024 (SCI-Expanded)
- II. **Reduce the construction cost of a 7-story RC public building with metaheuristic algorithms**  
Aslay S. E., Dede T.  
ARCHITECTURAL ENGINEERING AND DESIGN MANAGEMENT, vol.19, no.2, pp.1-16, 2023 (SCI-Expanded)
- III. **3D cost optimization of 3 story RC constructional building using Jaya algorithm**  
Aslay S. E., Dede T.  
Structures, vol.40, pp.803-811, 2022 (SCI-Expanded)
- IV. **Technical evaluation of abscissa damage of Erzincan Degirmenlikoy church**  
Aslay S. E., Okuyucu D.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.35, no.1, pp.387-402, 2020 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Optimizing the cost of a school building using the Rao algorithm**  
Aslay S. E., Dede T., Grzywiński M.  
CONSTRUCTION OF OPTIMIZED ENERGY POTENTIAL , vol.13, pp.45-49, 2024 (Peer-Reviewed Journal)
- II. **In Turkish Earthquake Seismic Codes 2007-2018 Comparison of Building Elements Extraction Scenarios and Building Periods**  
Aslay S. E., Dede T.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, pp.1297-1309, 2020 (ESCI)

## Books & Book Chapters

- I. **Cost and Design Optimization of a 2-Story RC Building**  
Aslay S. E., Dede T., Rao R. V.  
in: Advanced Engineering Optimization Through Intelligent Techniques, Ravipudi Venkata Rao, Jan Taler, Editor, Springer Nature, Singapore, pp.203-209, 2023

## Refereed Congress / Symposium Publications in Proceedings

- I. **Cost and Design Optimization of a 2-Story RC Building**  
ASLAY S. E., DEDE T., Rao R. V.  
International Conference on Advanced Engineering Optimization Through Intelligent Techniques, AEOTIT 2022, Surat, India, 28 - 30 January 2022, pp.203-209
- II. **Cost and design optimization of 2-storey RC building**  
Aslay S. E., Dede T., Rao R. V.  
Advanced Engineering Optimization Through Intelligent Techniques (AEOTIT), Surat, India, 28 January - 30 March 2022, pp.190-198
- III. **Numerical Investigation of the Effect of Carrier Elements on Structure Dynamic Properties in 3-D Frame Structure**  
DEDE T., ASLAY S. E.  
4. International Conference On Civil, Environmental, Geology and Mining Engineering, Trabzon, Turkey, 19 - 21 April 2019, pp.10

- IV. **Erzincan Değirmenliköy Kilisesi Apsis Bölümü Hasar Nedeninin İncelenmesi**  
ASLAY S. E., OKUYUCU D.  
UMTEB IV. Uluslararası Mesleki ve Teknik Bilimler Kongresi, Erzurum, Turkey, 7 - 09 December 2018, pp.792-798
- V. **A Case Study For Structural Model: Update By Operational Modal Analysis: Erzincan Değirmenliköy Church**  
ASLAY S. E., OKUYUCU D.  
ISASE 2018 International Symposium on Applied Sciences And Engineering, Erzurum, Turkey, 26 - 28 November 2018, pp.109-113
- VI. **Evaluation of 1939 Erzincan Earthquake Dynamic Behavior of Erzincan Değirmenliköy Church Over The Abscissa Damage**  
ASLAY S. E., OKUYUCU D.  
36th General Assembly of the European Seismological Commission, Valletta, Malta, 2 - 07 September 2018, pp.579

## Scientific Refereeing

JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT - ASCE, Journal Indexed in SCI-E, December 2024  
JOURNAL OF ASIAN ARCHITECTURE AND BUILDING ENGINEERING, Journal Indexed in SCI-E, November 2024  
JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT - ASCE, Journal Indexed in SCI-E, November 2024  
JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT - ASCE, Journal Indexed in SCI-E, November 2024  
PERIODICA POLYTECHNICA. CIVIL ENGINEERING, Journal Indexed in SCI-E, August 2024  
PERIODICA POLYTECHNICA. CIVIL ENGINEERING, Journal Indexed in SCI-E, July 2024  
PERIODICA POLYTECHNICA. CIVIL ENGINEERING, Journal Indexed in SCI-E, June 2024  
JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT - ASCE, Journal Indexed in SCI-E, November 2023  
JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT - ASCE, Journal Indexed in SCI-E, August 2023  
JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT - ASCE, Journal Indexed in SCI-E, June 2023  
ADVANCES IN CIVIL ENGINEERING, Journal Indexed in SCI-E, November 2020

## Metrics

Publication: 14  
Citation (WoS): 4  
Citation (Scopus): 34  
H-Index (WoS): 2  
H-Index (Scopus): 3

## Congress and Symposium Activities

Dede T., Aslay S.E.,(2019), "Numerical Investigation of the Effect of Carrier Elements on Structure Dynamic Properties in 3-D Frame Structure" ICOCEM 2019, 4. International Conference on Civil, Environmental, Geology And Mining Engineering, Attendee, Trabzon, Turkey, 2019

Aslay, S.E., Okuyucu, D. (2018) "Erzincan Değirmenliköy Kilisesi Apsis Bölümü Hasar Nedeninin İncelenmesi" UMTEB IV. Uluslararası Mesleki ve Teknik Bilimler Kongresi, Türkiye, Attendee, Erzurum, Turkey, 2018

Aslay S.E., Okuyucu D. (2018) "A Case Study For Structural Model: Update By Operational Modal Analysis: Erzincan Değirmenliköy Church", ISASE 2018 International Symposium on Applied Sciences And Engineering, Attendee, Erzurum, Turkey, 2018

Aslay, S.E., Okuyucu, D. (2018) "Evaluation of 1939 Erzincan Earthquake Dynamic Behavior of Erzincan Değirmenliköy Church Over The Abscissa Damage", The 36th General Assembly of the European Seismological Commission, Malta, Attendee, Valletta, Malta, 2018

## **Non Academic Experience**

Ministry, Çevre ve Şehircilik İl Müdürlüğü / Erzincan, Proje Şube  
Business Establishment Private, Birhan Yapı / Ankara, Hakediş  
Business Establishment Private, Sismik Yapı / İstanbul, Saha