

Lect. PhD SEMİ EMRAH ASLAY

Personal Information

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International Researcher IDs

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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

- 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. **Jaya Algorithm for Optimization of 2D Reinforced Concrete Frame Structure**
Grzywiński M., DEDE T., ATMACA B., ASLAY S. E.
5th Polish Congress of Mechanics and 25th International Conference on Computer Methods in Mechanics, PCM-CMM 2023, Gliwice, Poland, 4 - 07 September 2023, vol.1146 LNNS, pp.74-80
- II. **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
- III. **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
- IV. **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

V. **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

VI. **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

VII. **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, January 2025

JOURNAL OF CONSTRUCTION ENGINEERING AND MANAGEMENT - ASCE, Journal Indexed in SCI-E, December 2024

REVISTA DE LA CONSTRUCCION, Journal Indexed in SCI-E, December 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

JOURNAL OF ASIAN ARCHITECTURE AND BUILDING ENGINEERING, Journal Indexed in SCI-E, November 2024

REVISTA DE LA CONSTRUCCION, 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: 15

Citation (WoS): 32

Citation (Scopus): 36

H-Index (WoS): 3

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, İnşaat Mühendisi

Business Establishment Private, Birhan Yapı / Ankara, Hakediş, İnşaat Mühendisi

Business Establishment Private, Sismik Yapı / İstanbul, Saha, İnşaat Mühendisi