

Res. Asst. YILMAZ YILMAZ

Personal Information

Email: yilmazyilmaz@ktu.edu.tr

Web: <https://avesis.ktu.edu.tr/yilmazyilmaz>

International Researcher IDs

ScholarID: JiYkMZAAAAAJ

ORCID: 0009-0008-2871-6357

Publons / Web Of Science ResearcherID: JVM-8119-2024

Yoksis Researcher ID: 388911

Education Information

Doctorate, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2024 - Continues

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, -, Turkey 2020 - 2023

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2017 - 2020

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

IT, Robotik ve Kodlama, İstanbul Ticaret Üniversitesi, 2023

Quality Management, Kalite Mühendisliği Yöneticiliği, İstanbul Ticaret Üniversitesi, 2022

Education Management and Planning, Proje Yön/Hibe ve Fon Kaynakları, İstanbul Ticaret Üniversitesi, 2022

Vocational Course, İnsansız Hava Aracı Ticari Pilot Sertifikası, Teknomer Mühendislik, 2020

Dissertations

Postgraduate, C-ENKESİTLİ HAFİF ÇELİK PROFİLLERİN MERKEZİ VE EKSANTRİK YÜKLEME ALTINDAKİ DAVRANIŞLARININ İNCELENMESİ, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2024

Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Structural Engineering, Steel Structures, Building materials

Published journal articles indexed by SCI, SSCI, and AHCI

1. Investigation of ASR-induced crack development on mortars with mineral additives using image processing

Selim İ., Yılmaz Y., Nayır S.

EUROPEAN JOURNAL OF ENVIRONMENTAL AND CIVIL ENGINEERING, vol.0, pp.1-22, 2024 (SCI-Expanded)

- II. **Development of a machine learning based automated model to predict the load-bearing capacity of circular hollow section brace members having accidental joint eccentricity**
Yılmaz Y., Demir S., Sannah N., Demir A.
Structures, vol.70, 2024 (SCI-Expanded)
- III. **Machine learning based prediction of compressive and flexural strength of recycled plastic waste aggregate concrete**
Yılmaz Y., Nayır S.
Structures, vol.69, 2024 (SCI-Expanded)
- IV. **Predicting the load-bearing capacity of lipped channel section cold formed steel profiles under combined effects using machine learning**
Yılmaz Y., Demir S., Ozturk F.
STRUCTURES, vol.66, 2024 (SCI-Expanded)
- V. **The behavior of reinforced concrete frames exposed to high temperature under cyclic load effect**
Çolakoğlu H. E., HÜSEM M., DEMİR S., AKBULUT Y. E., YILMAZ Y.
Structures, vol.63, 2024 (SCI-Expanded)
- VI. **Buckling behavior of cold-formed steel lipped channel beam-column members under monotonic and cyclic loadings**
Yılmaz Y., Demir S., Öztürk F.
STRUCTURAL ENGINEERING AND MECHANICS, vol.90, no.5, pp.435-446, 2024 (SCI-Expanded)
- VII. **Buckling behavior of cold-formed steel sigma and lipped channel section beam-columns: Experimental and numerical investigation**
Yılmaz Y., Öztürk F., Demir S.
JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, vol.214, 2024 (SCI-Expanded)
- VIII. **Buckling and fracture behavior of cold formed carbon/stainless steel tubular braces under far field and near fault loadings**
Demir S., Ikram M., Yılmaz Y., Soalih H.
Journal of Constructional Steel Research, vol.214, 2024 (SCI-Expanded)

Articles Published in Other Journals

- I. **Determination of the efflorescence defects on concrete and plaster surfaces using a novel deep-learning model**
Nayır S., Yılmaz Y.
Journal of Structural Engineering & Applied Mechanics (Online), vol.7, no.2, pp.123-135, 2024 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Eksenel ve Eksantrik Yüklemeye Maruz Kalan C-Kesitli Hafif Çelik Kiriş-Kolon Elemanların Çevrimsel Yükleme Altındaki Davranışı**
Yılmaz Y., Demir S., Öztürk F., Pul S.
Ulusal 9. Yapı Mekaniği Laboratuvarları Çalıştayı (YMLÇ-9), Düzce, Turkey, 18 - 19 October 2024, pp.1-7
- II. **Performance Analysis Of Corrosion Segmentation With U-Net-based Deep Learning Models**
Yılmaz Y., Nayır S.
10th INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES (ICENS), Sarajevo, Bosnia And Herzegovina, 02 October 2024 - 04 January 2025, pp.15
- III. **The Behavior of Reinforced Concrete Frames Exposed to High Temperatures under Cyclic Load**

Effect

Hüsem M., Çolakoğlu H. E., Akbulut Y. E., Yılmaz Y.

3rd International Civil Engineering & Architecture Conference (ICEARC'23), Trabzon, Turkey, 12 - 14 October 2023, vol.1, pp.1817-1824

IV. Evaluation of potential liquefaction in soils

Yılmaz Y., Cüre E., Türker E., Altuntaş O. Y.

3RD INTERNATIONAL CIVILENGINEERING&ARCHITECTURE CONFERENCE, Trabzon, Turkey, 12 - 14 October 2023, vol.1, pp.443-453

Scientific Refereeing

ADVANCES IN CIVIL ENGINEERING, SCI Journal, May 2024

Congress and Symposium Activities

Proceedings of 3rd International Civil Engineering and Architecture Congress (ICEARC'23), Attendee, Trabzon, Turkey, 2023