

Res. Asst. YILMAZ YILMAZ

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International Researcher IDs

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Education

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

Journal articles indexed in SCI, SSCI, and AHCI

- I. Prediction of load-bearing capacity of sigma section CFS beam-column members using ensemble and deep learning algorithms

- YILMAZ Y., Öztürk F., DEMİR S., Demir A. D.
 Journal of Constructional Steel Research, vol.228, 2025 (SCI-Expanded)
- II. Real-time detection of steel corrosion defects using semantic and instance segmentation models based on deep learning**
 Yılmaz Y., Nayır S., Erdoğdu Ş.
 MATERIALS TODAY COMMUNICATIONS, vol.44, pp.2352-4928, 2025 (SCI-Expanded)
- III. Experimental and numerical investigation of the cyclic behaviors of cold-formed steel beam-columns under axial force and uniaxial-biaxial bending**
 ÖzTÜRK F., Yılmaz Y., Demir S.
 JOURNAL OF EARTHQUAKE ENGINEERING, vol.29, no.3, pp.636-668, 2025 (SCI-Expanded)
- IV. 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)
- V. 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)
- VI. 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)
- VII. 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)
- VIII. Buckling behavior of cold-formed steel lipped channel beam-column members under monotonic and cyclic loadings**
 YILMAZ Y., DEMİR S., Ozturk F.
 STRUCTURAL ENGINEERING AND MECHANICS, vol.90, no.5, pp.435-446, 2024 (SCI-Expanded)
- IX. 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)
- X. 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)
- XI. 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)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. Enerji İletim Altyapısı Elemanlarının (420kV AT 420 Tip Akım Transformatörü) Yapısal ve Sismik Performanslarının Statik İtme ve Sarsma Masası Deneyleri ile Değerlendirilmesi ve Yenilikçi Yöntemlerle İyileştirilmesi
OKUR F. Y., SUNCA F., KEÇECİ B., BALTAÇI A., KARAHASAN A. K., ŞAHİN M. C., ŞEN D., ÖREN S., YILMAZ Y., DEMİR S., et al.
9. Yapı Mekanığı Laboratuvarları Çalışayı, Düzce, Turkey, 19 October 2024, pp.233-238, (Full Text)
- II. 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 Mekanığı Laboratuvarları Çalışayı (YMLÇ-9), Düzce, Turkey, 18 - 19 October 2024, pp.1-7, (Full Text)
- III. 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, (Summary Text)
- IV. 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, (Full Text)
- V. 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, (Full Text)

Peer Reviews in Scientific Publications

JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH, Journal Indexed in SCI-E, April 2025

Journal of Big Data, Journal Indexed in SCI-E, February 2025

SCIENTIFIC REPORTS, Journal Indexed in SCI-E, January 2025

ADVANCES IN CIVIL ENGINEERING, Journal Indexed in SCI-E, May 2024

Congress and Symposium Activities

10th International Conference on Engineering and Natural Sciences (ICENS 2024), Attendee, Sarajevo, Bosnia And Herzegovina, 2025

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