

Journal of Construction Engineering, Management & Innovation

ISSN: 2630-5771 (online)

Editor-in-Chief

Vedat Tođan

Karadeniz Technical University, Türkiye

Honorary Editors-in-Chief

David Arditi

Illinois Institute of Technology, USA

M. Talat Birgönül

Middle East Technical University, Türkiye

Associate Editors

Algan Tezel

Anglia Ruskin University, UK

Hubo Cai

Purdue University, USA

Islam M. El-adaway

Missouri University of Science and
Technology, USA

Sevilay Demirkesen Çakır


Gebze Technical University, Türkiye

Zhen-Song Chen

Wuhan University, China


Managing Editor

Ahmet Can Altunışık

Karadeniz Technical University  ahmetcan@ktu.edu.tr

Design & Layout Editor

Hasan Basri Başađa

Karadeniz Technical University  hasanbb@ktu.edu.tr

Journal of Construction Engineering, Management & Innovation is an open-access journal international journal quarterly published by Golden Light Publishing®. Each paper submitted is subject to peer review, and only papers of the highest quality that contain original ideas will be published.

Golden Light Publishing® is a trademark of Dynamic Academy®.

Postal address

Golden Light Publishing®

Trabzon Teknoloji Geliřtirme Bölgesi, Yönetici A.Ş.

Üniversite Mahallesi, Hastane Caddesi, No: 33

61080 Trabzon, Türkiye

E-mail: info@goldenlightpublish.com

Editorial Board

Albert P.C. Chan

The Hong Kong Polytechnic University,
Hong Kong

Allen Tadayon

Oslo Metropolitan University, Norway

Ana Cocho-Bermejo

Barcelona TEch, Spain

Aslı Pelin Gürgün

Yıldız Technical University, Türkiye

Assed N. Haddad

Universidade Federal do Rio de Janeiro,
Brazil

Aynur Kazaz

Akdeniz University, Türkiye

Beliz Özorhon

Boğaziçi University, Türkiye

Carlos Torres Formoso

Federal University of Rio Grande do Sul,
Brazil

Chien-Ho Ko

National Pingtung University of Science
and Technology, Taiwan

Gökhan Arslan

Istanbul Aydın University, Türkiye

Gül Polat

Istanbul Technical University, Türkiye

Hasan Basri Başağa

Karadeniz Technical University, Türkiye

İrem Dikmen

University of Reading, United Kingdom

Jolanta Tamošaitienė

Vilnius Gediminas Technical University,
Lithuania

Low Sui Pheng

National University of Singapore,
Singapore

Lucio Soibelman

University of Southern California, United
State

Maxwell Fordjour Antwi-Afari

Aston University, United Kingdom

Mladen Radujkovic

Alma Mater Europaea University, Slovenia

M Reza Hosseini

University of Melbourne, Australia

Morteza Bagherpour

University of Pretoria, South Africa

Onur Behzat Tokdemir

Istanbul Technical University, Türkiye

Önder Halis Bettemir

Inonu University, Türkiye

Rıfat Sönmez

Middle East Technical University, Türkiye

Salman Azhar

Auburn University, United State

Saeed Talebi

Birmingham City University, United
Kingdom

Serkan Kıvrak

Eskisehir Technical University, Türkiye

Sherif Mohamed

University of Southern Queensland,
Australia

Sibel Maçka Kalfa

Karadeniz Technical University, Türkiye

Sparsh Johari

Indian Institute of Technology Guwahati,
India

Víctor Yepes

Universitat Politècnica de València, Spain

Yanyu Wang

Louisiana State University, United State

Zeynep Işık

Yıldız Technical University, Türkiye

Journal of Construction Engineering, Management & Innovation

Volume 9, Issue 2, June 30, 2026

CONTENTS

Research Article

Enhancing bike-sharing demand forecasting with spatio-temporal learning: A comparative study on a local dataset

Melike Aygün Çakıroğlu and Suat Özdemir

Article 652

Review Article

Mapping gendered inequalities in a male-dominated industry: A scientometric analysis of research on women in construction

Şerife Ak

Article 640

Research Article

Quantifying the hidden embodied carbon gap in Turkish construction: A scenario-based assessment and policy roadmap

Volkan Arslan and Şefik Hakan Papila

Article 661

Research Article

Data driven eco efficiency in MDF manufacturing using lignin-based resin and waste utilization: Explainable ML for optimization of global warming potential and primary energy demand

Caner Yetis and Merve Tuna Kayılı

Article 691

Research Article

Toward agent-native infrastructure in AEC: From fragmented knowledge to executable workflows

Zheng Ma, Mirosław J. Skibniewski and Zhen-Song Chen

Article 721

Research Article

Construction project risk management under contingent circumstances: Case of Ukraine-Russia War

Muhammed Ali Çolak and Gürkan Emre Güranlı

Article 617

Research Article

A new bi-objective quality-based construction supply chain framework: From purchasing to commissioning

Maryam Izadbakhsh, Seyed Farid Ghannadpour, Morteza Bagherpour and Mohammad Mahdavi-Mazdeh

Article 677

Research Article

Construction performance classification with controlled information flow in dense engineering activity graphs

Fatemeh Mostofi, Onur Behzat Tokdemir and Vedat Toğan

Article 680

Research Article

Integrated life cycle assessment of passive house envelope alternatives in a hot-arid climate: The case of the Gaziantep ecological house

Feride ıgdem Kara Dülger and Merve Tuna Kayılı

Article 556