Special Issue

Finite Element Simulation and Analysis

Message from the Guest Editors

The finite element method (FEM) has become an essential tool for simulating and analysing complex engineering problems in various fields. The FEM stands as a fundamental pillar in engineering, providing an advanced and effective method with which to analyse, understand, and optimize complex structures and systems across various sectors. This Special Issue, "Finite Element Simulation and Analysis", aims to bring together the latest research findings and developments in this area. We invite researchers and practitioners to contribute original research articles and review papers that focus on the application of finite element simulation and analysis in engineering science. Topics of interest include, but are not limited to: Finite element modelling and analysis; Structural and fluid dynamics simulations; Multi-physics and multi-scale simulations; Optimization and sensitivity analysis; Material modelling and characterization; Validation and verification of finite element models; Uncertainty quantification and reliability analysis; Innovative applications of the finite element method. For more details: https://www.mdpi.com/si/195164

Guest Editors

Dr. Paolo Todisco

Department of Civil Engineering, University of Salerno, 84084 Fisciano, SA, Italy

Dr. Elide Nastri

Department of Civil Engineering, University of Salerno, 84084 Fisciano, SA, Italy

Deadline for manuscript submissions

closed (30 June 2025)

Modelling

an Open Access Journal by MDPI

Impact Factor 1.5
CiteScore 2.2

mdpi.com/si/195164

Modelling
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
modelling@mdpi.com

mdpi.com/journal/modelling

Modelling

an Open Access Journal by MDPI

Impact Factor 1.5
CiteScore 2.2

mdpi.com/journal/modelling

MDPI

About the Journal

Message from the Editorial Board

We encourage you to contribute a research or comprehensive review article for consideration and publication in *Modelling* (ISSN 2673-3951), an international open access journal, which is published quarterly online by MDPI. The editorial board and staff of *Modelling* are dedicated to providing an advanced forum for studies related to the development and applications of modelling and simulation techniques. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications.

Editors-in-Chief

Prof. Dr. Alfredo Cuzzocrea
1. DISPES Department, University of Calabria, 87036 Rende, Italy
2. Institute of High Performance Computing and Networking, Italian National Research Council, Via P. Bucci, 7/11C, 87036 Rende, Italy

Prof. Dr. Wei Gao
School of Civil and Environmental Engineering, Faculty of Engineering, University of New South Wales, Sydney, NSW 2052, Australia

Author Benefits

High Visibility:

indexed within ESCI (Web of Science), Scopus, Ei Compendex, EBSCO and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.5 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q2 (Mathematics (miscellaneous))