

Special Issue

Numerical Analysis and Modeling in Structural Engineering

Message from the Guest Editor

Numerical analysis and modeling are essential in structural engineering, as they offer powerful tools to simulate, analyze, and optimize the behavior of complex structures under diverse loading and environmental conditions. This Special Issue aims to present recent advances in computational modeling and numerical techniques that support innovation in structural design, performance assessment, and safety evaluation. Topics of interest include the following: nonlinear structural behavior; substructuring in structural dynamics; damage and fracture mechanics; multiscale and multiphysics modeling; and computational mechanics. We welcome submissions focused on optimization strategies such as topology and shape optimization, sustainable design, and life-cycle analysis. Contributions addressing uncertainty quantification, stochastic modeling, reliability analysis, and robust or resilient structural design are also encouraged.

Guest Editor

Prof. Dr. Daniel Gomez

School of Civil Engineering and Geomatics, Universidad del Valle, Cali 760032, Colombia

Deadline for manuscript submissions

31 January 2026



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/244167

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

[mdpi.com/journal/
mathematics](https://mdpi.com/journal/mathematics)





Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



[mdpi.com/journal/
mathematics](https://mdpi.com/journal/mathematics)



About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

Journal Rank:

JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).