



an Open Access Journal by MDPI

Numerical and Computational Methods in Structural Engineering and Mechanics

Guest Editors:

Prof. Dr. Joaquim Infante Barbosa

1. CIMOSM, ISEL—Centro de Investigação em Modelação e Optimização de Sistemas Multifuncionais, Instituto Superior de Engenharia de Lisboa, 1959-007 Lisboa, Portugal 2. IDMEC, IST—Instituto de Engenharia Mecânica, Instituto Superior Técnico, Universidade de Lisboa, 1049-001 Lisboa, Portugal

Dr. José Alberto Rodrigues

1. CIMOSM, ISEL—Centro de Investigação em Modelação e Optimização de Sistemas Multifuncionais, Instituto Superior de Engenharia de Lisboa, 1959-007 Lisboa, Portugal 2. CIMA—Centro de Investigação em Matemática e Aplicações, Universidade de Évora, Portugal

Message from the Guest Editors

The Special Issue aims to bring together modeling approaches that consider mathematical models, serving as a reference to existing structural engineering and mechanics problems. The key problems addressed in this issue are also the automation and systematization of complex mechanical problems enabling significant time savings, the advantages of merging numerical and computational facets of the problems' solving process and the development of hybrid analytical-numerical techniques. Topics of interest include (but are not limited to) the following:

- Design of robust computational methods and simulations;
- Development of parameter fitting methods and inverse problem strategies in ordinary and partial differential equations;
- Numerical simulation in structural engineering;
- Design optimization of complex structural systems;
- Computational methods in mathematics and structural engineering;
- Integrated numerical/computational methods.

Deadline for manuscript submissions:

31 August 2024



Specialsue







an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Francisco Chiclana

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

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The iournal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering sociology. particularly those that and 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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

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

Journal Rank: JCR - Q1 (*Mathematics*) / CiteScore - Q1 (*General Mathematics*)

Contact Us