



Numerical Modeling and Simulation in Engineering Sciences

Guest Editor:

Dr. Pablo Druetta

Faculty of Science and
Engineering, University of
Groningen, 9747 AG Groningen,
The Netherlands

Deadline for manuscript
submissions:

closed (30 June 2024)

Message from the Guest Editor

Dear Colleagues,

This Special Issue focuses on the use of numerical simulation and mathematical models applied to engineering sciences, with emphasis on recent advances in numerical techniques and their application in industrial or academic applications. We are interested in papers addressing topics ranging from the novel application of existing mathematical tools to the development of novel numerical schemes to solve existing problems. This includes, but is not limited to, the following topics: (a) the use of standard numerical tools (e.g., finite difference, finite volume, finite element, meshless methods); (b) new numerical methodologies, including their validation with benchmarking cases; (c) high-performance computing, including new parallel computing algorithms; (d) the correct and effective modelling of initial and boundary conditions; (e) different types of balance equations in engineering; (f) mathematical modelling of multiphysics phenomena. Research articles, reviews papers and short communications are also invited.





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 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.

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

Mathematics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/mathematics
mathematics@mdpi.com
X@MathematicsMDPI