

# Special Issue

## Computational Fluid Dynamics II

### Message from the Guest Editors

This Special Issue focuses on computational fluid dynamics (CFD) research with an emphasis on its recent advancements and its use in many industrial/academic applications. Papers ranging from new physical modeling and discoveries to the correct treatment of difficulties inherent in numerical modeling of fluid flow systems are invited for submission. These include, but are not limited to, the following areas: (i) correctly and effectively modelling physical boundary conditions; (ii) mass and energy conservation (iii) realistically treating complicated physical phenomena; (iv) extendibility to dealing with more multiphysics phenomena, such as magnetohydrodynamics (MHD), electrohydrodynamics (EHD), non-Newtonian flows, phase changes, nano-fluids, etc.; and (v) the extension of the aforementioned methodologies to three-dimensional modeling and massively parallel computing in order to handle real-life problems is of particular interest. This Special Issue also welcomes related novel inter-/multi-disciplinary works in the emerging area of mechanical and chemical processes and energy engineering.

---

### Guest Editors

Prof. Dr. Mostafa Safdari Shadloo  
Prof. Dr. Mohammad Mehdi Rashidi  
Dr. Alessio Alexiadis

---

### Deadline for manuscript submissions

closed (31 December 2024)



## Mathematics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.2  
CiteScore 4.6



[mdpi.com/si/95456](https://mdpi.com/si/95456)

*Mathematics*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[mathematics@mdpi.com](mailto: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 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).