



## Mathematical Modeling, Numerical Analysis and Scientific Computing, with Their Applications

Guest Editor:

**Dr. Songting Luo**

Department of Mathematics,  
Iowa State University, Ames, IA  
50011, USA

Deadline for manuscript  
submissions:

**closed (20 January 2024)**

### Message from the Guest Editor

Mathematical modeling, numerical analysis and scientific computing have been playing a significant role in solving real-world problems, with applications arising from various areas in science, engineering, and technology.

This Special Issue will present recent research results in mathematical modeling, numerical analysis, scientific computing, and their applications. Papers on the development and analysis of novel methods and models in all areas of mathematical modeling, numerical analysis and scientific computing are welcome. More specifically, papers on but not limited to the following broad topics are welcome:

- Mathematical modeling and simulation of applications in science, engineering, and
- Numerical analysis of ODEs, PDEs, and
- Scientific computing and algorithms for applications in science, engineering, and technology.





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](http://www.mdpi.com)

[mdpi.com/journal/mathematics](http://mdpi.com/journal/mathematics)  
[mathematics@mdpi.com](mailto:mathematics@mdpi.com)  
[X@MathematicsMDPI](https://twitter.com/MathematicsMDPI)