

# Special Issue

## New Advances in Functional Analysis and PDEs

### Message from the Guest Editors

Functional analysis plays an important role in many research areas of pure and applied mathematics. The motivation for the increasing interest in functional analysis is not only for theoretical purposes, but also because of its applications in a variety of fields, across partial differential equations, probability, stochastic processes, physics (especially quantum mechanics) and harmonic analysis. The aim of this Special Issue is to present recent original research and review articles in functional analysis and partial differential equations. We encourage cooperation between researchers working in functional analysis and applied mathematics. Potential topics include, but are not limited to, the following:

- Operator theory;
- Measure theory;
- Potential Theory;
- Harmonic analysis;
- New perspectives in real/analytic function spaces (embeddings, equivalent norms, Interpolation,...);
- Interpolation inequalities and their applications;
- Partial differential equations.

---

### Guest Editors

Prof. Dr. Douadi Drihem

Laboratory of Functional Analysis and Geometry of Spaces, Faculty of Mathematics and Informatics, Department of Mathematics, M'sila University, M'sila 28000, Algeria

Prof. Dr. Jingshi Xu

School of Mathematics and Computing Science, Guilin University of Electronic Technology, 1 Jinjilu, Guilin 541004, China

---

### Deadline for manuscript submissions

31 December 2026



## Mathematics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.2  
CiteScore 4.6



[mdpi.com/si/272244](https://mdpi.com/si/272244)

*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).