



## Linear Elliptic PDEs

Guest Editors:

**Prof. Dr. Jochen Merker**

Centre for Mathematics and  
Natural Sciences, HTWK Leipzig  
University of Applied Sciences,  
04251 Leipzig, Germany

**Dr. Falko Baustian**

Institute of Mathematics,  
University of Rostock, 18057  
Rostock, Germany

Deadline for manuscript  
submissions:

**closed (30 November 2025)**

### Message from the Guest Editors

New theoretical results about (systems of) linear elliptic PDEs and the regularity of solutions (for measure data or rough data) are suitable for this Special Issue. Furthermore, the numerical analysis of computational methods for the solution of linear elliptic PDEs (the finite element method, FEM; the finite difference method, FDM; and the finite volume method, FVM) and new trends in numerics, e.g., estimating Green's function of a linear elliptic operator by machine learning or quantum algorithms for the solution of linear PDEs, fit into the scope of this Special Issue.

To summarize, this Special Issue allows authors to present their latest findings related to linear elliptic PDEs.





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)