

# Special Issue

## Differential and Integro– Differential Equations: Theory and Applications

### Message from the Guest Editors

The purpose of this Special Issue is to present recent advances in the development and application of differential and integro-differential equations covering different research areas. Papers focused on the development and validation of new methods (algorithms, convergence and complexity analysis, etc.), as well as the adaption of existing methods for solving particular problems are welcome. The topics considered include but are not restricted to:

- Ordinary differential equations;
- Partial differential equations;
- Fractional differential equations;
- Delay differential equations;
- Integro-differential equations;
- Applications of differential equations in physical, engineering, live sciences, economics, etc.

---

### Guest Editors

Prof. Dr. Jüri Majak

Department of Mechanical and Industrial Engineering, School of Engineering, Tallinn University of Technology, Ehitajate tee 5, 19086 Tallinn, Estonia

Prof. Dr. Andrus Salupere

Department of Cybernetics, School of Science, Tallinn University of Technology, 12616 Tallinn, Estonia

---

### Deadline for manuscript submissions

closed (31 August 2024)



## Mathematics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.2  
CiteScore 4.6



[mdpi.com/si/126867](https://mdpi.com/si/126867)

*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).