

Special Issue

The Theory of Differential Equations and Their Applications

Message from the Guest Editors

Differential equations are one of the core areas of analytical mathematics, playing a fundamental role in modern science and practical engineering. With the promotion of science and technology, in recent years, the theory of differential equations and its applications have rapidly developed, and new waves have been successively set off in these research fields. The aim of this Special Issue is to attract original frontier contributions on the theory of fractional differential equations and functional differential equations, including but not limited to initial value problems, boundary value problems, qualitative theory, stability analysis, control theory and numerical solutions. Moreover, we encourage submissions of their applications in bioscience, economy, information engineering, and so on.

Guest Editors

Prof. Xiping Liu

Prof. Dr. Liu Yang

Dr. Ruiyang Cai

Deadline for manuscript submissions

closed (29 February 2024)



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/129620

Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).