

Special Issue

Analytical Methods and Qualitative Analysis for Differential Equations

Message from the Guest Editor

The new Special Issue aims to bring the newest results of the study on analytical methods and qualitative analysis for ordinary and partial differential equations. Ordinary differential equations (ODEs) and partial differential equations (PDEs) are important tools to describe dynamic systems and physical phenomena. Analytical methods provide tools for accurately solving ODEs and PDEs, while qualitative analysis methods help us understand the global behavior and properties of solutions, both of which are indispensable in mathematical analysis. We hope that through this Special Issue, we can put together the newest research progress and trends in the study of analytical methods and qualitative analysis for differential equations of one variable and several variables, which thus push forward the development of both branches and, at the same time, inspire parallels between them. Any aspects related to the study on analytical methods and qualitative analysis for ordinary and partial differential equations are valuable to the success of this Special Issue.

Guest Editor

Prof. Dr. Fengping Yao

Department of Mathematics, Shanghai University, Shanghai 200444, China

Deadline for manuscript submissions

30 September 2025



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/222908

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).