

Special Issue

Advances in Fractional Calculus for Modeling and Applications

Message from the Guest Editors

We are pleased to introduce the Special Issue “Advances in Fractional Calculus for Modeling and Applications”. This collection is devoted to recent developments in fractional calculus and its growing significance as a tool for analyzing and modeling complex systems in science and engineering. The scope of this Special Issue includes new results on fractional differential equations, anomalous diffusion and transport, hereditary phenomena, fractional-order control, as well as computational and numerical approaches for simulation. We also encourage submissions that introduce novel analytical techniques, efficient algorithms, and interdisciplinary applications that demonstrate the practical impact of fractional models. Our goal is to bring together contributions that connect theoretical progress with practical implementations, creating a valuable reference for researchers, while further promoting the use of fractional calculus in addressing contemporary challenges.

Guest Editors

Prof. Dr. Assia Guezane-Lakoud

Department of Mathematics, Badji Mokhtar University, Annaba 23000, Algeria

Prof. Dr. Rabah Khaldi

Department of Mathematics, Badji Mokhtar University, Annaba 23000, Algeria

Deadline for manuscript submissions

30 June 2026



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/257334

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 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).