

Special Issue

New Advances in Mathematical Analysis and Functional Analysis

Message from the Guest Editor

We invite you to contribute a manuscript to this Special Issue on “New Advances in Mathematical Analysis and Functional Analysis”. Mathematical analysis and functional analysis plays an important role in many research areas of pure and applied mathematics and is essential for the theory of partial differential equations, numerical analysis, probability theory, optimization theory, and theoretical physics. The impetus came from applications: problems related to ordinary and partial differential equations, numerical analysis, calculus of variations, approximation theory, integral equations, optimization theory, and so on. The aim of this Special Issue is to gather and publish new results on mathematical analysis, functional analysis, and their applications. We welcome papers on topics including, but not limited to, the following:

- Functional analysis;
- Mathematical analysis;
- Optimization theory;
- Control theory;
- Variational analysis;
- Dynamical system;
- Fixed point theory and its application;
- Iterated function system;
- Fractal theory;
- Convex analysis;
- Numerical analysis.

Guest Editor

Dr. Talat Nazir

Department of Mathematical Sciences, University of South Africa,
Johannesburg 0003, South Africa

Deadline for manuscript submissions

closed (31 December 2023)



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/145641

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).