

# 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.

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### Guest Editor

Dr. Talat Nazir

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### Deadline for manuscript submissions

closed (31 December 2023)



## Mathematics

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## 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.

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### Editor-in-Chief

Prof. Dr. Francisco Chiclana  
School of Computer Science and Informatics, De Montfort University,  
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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).