

# Special Issue

## New Advances in Distribution Theory and Its Applications

### Message from the Guest Editors

In recent years, the field of research relating to distribution theory has weakened due to the countless proposals for “new” distributions, which, in many cases, are now built with standardized techniques, paying particular attention to elegance and mathematical rigor at the cost of greater complexity, which reduces the interpretability, for example, of parameters, without guaranteeing great flexibility with respect to the distributions already present in the literature. The purpose of this Special Issue is to stimulate researchers to propose high-quality original articles that provide significant contributions to statistical distribution theory and its applications. In this context, papers suggesting models whose genesis is attributable to specific mechanisms or characteristics related to the context of analysis, general frameworks of families of distribution functions, motivated reparameterizations that increase the interpretability of models, regressive models on characteristics and/or indicators of specific interest, and original applications on real data are welcome.

### Guest Editors

Prof. Dr. Domma Filippo

Department of Economics, Statistics and Finance, University of Calabria, 87036 Arcavacata, Italy

Dr. Francesca Condino

Department of Economics, Statistics and Finance, University of Calabria, 87036 Arcavacata, Italy

### Deadline for manuscript submissions

15 April 2025



## Mathematics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.3  
CiteScore 4.0



[mdpi.com/si/118238](https://mdpi.com/si/118238)

*Mathematics*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[mathematics@mdpi.com](mailto:mathematics@mdpi.com)

[mdpi.com/journal/  
mathematics](https://mdpi.com/journal/mathematics)





# Mathematics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.3  
CiteScore 4.0



[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 17.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2024).