

Special Issue

Advances of Applied Probability and Statistics

Message from the Guest Editors

The issue features a collection of articles written by experts in the field, covering a range of topics such as Bayesian inference, machine learning, causal inference, dimensionality reduction, and much more. Applications of new techniques to interesting real-world problems will also be considered. The articles should address the unique challenges posed by big data and demonstrate the impact that these methods are having on fields such as biology, finance, and social sciences. This Special Issue also provides a forum for researchers to share their perspectives on the current state of the field and to discuss the future direction of statistics and probability in the big data era. The articles highlight the important role that these disciplines play in making sense of the vast amounts of data generated by modern technologies and provide insights into the opportunities and challenges that lie ahead. Overall, this Special Issue of the journal provides an invaluable resource for researchers, students, and practitioners interested in staying up to date with the latest advances in the field of statistics and probability in the context of the big data era.

Guest Editors

Dr. Massimiliano Giacalone

Department of Economics, University of Campania "Luigi Vanvitelli",
80143 Capua, Italy

Prof. Dr. Karina Gibert

Research Group on Knowledge Engineering and Machine Learning at
Intelligent Data Science and Artificial Intelligence Research Center,
Universitat Politècnica de Catalunya, 08034 Barcelona, Spain

Deadline for manuscript submissions

closed (30 April 2026)



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/162025

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).