

# Special Issue

## Recent Advances in Statistical Analysis and Applications

### Message from the Guest Editor

This Special Issue aims to spotlight the recent advancements in the field of statistical analysis and its numerous practical applications. Statistical analysis practices including traditional (regression analysis, hypothesis testing, etc.) and contemporary (machine learning applications, big data analysis, etc.) methods are increasingly proving to be pivotal for a host of domains in both academia and industry and increasingly reliable for an extensive range of complex problem-solving and decision-making scenarios involving data interpretation and foresight. The main themes of this Special Issue encompass, but are not restricted to: advancements in statistical methods, applications in data science, novel statistical learning approaches, large-scale data analysis, multi-variable statistical models, multi-disciplinary integration with statistics, applications of statistical analysis in real-world scenarios, etc.

- regression analysis
- hypothesis testing
- big data analysis
- machine learning applications
- large-scale data analysis
- multi-variable statistical models

---

### Guest Editor

Prof. Dr. Wangli Xu

School of Statistics, Renmin University of China, Beijing 100872, China

---

### Deadline for manuscript submissions

closed (31 December 2024)



## Mathematics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.2  
CiteScore 4.6



[mdpi.com/si/191168](https://mdpi.com/si/191168)

*Mathematics*  
Editorial Office  
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 2.2**  
**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).