

Special Issue

Recent Advances in Nonparametric Statistics and Its Applications

Message from the Guest Editor

We are excited to announce a Special Issue of *Mathematics* titled "Recent Advances in Nonparametric Statistics and Its Applications". This issue is intended to showcase research on the latest developments in key areas of nonparametric statistics, including (but not limited to) classical nonparametric inference, Bayesian nonparametrics, high-dimensional regression, shape-constrained inference, semiparametric methods, graphical and network models, robust nonparametric methods, causal inference, and functional and topological data analysis. We welcome both theoretical contributions and innovative applications in interdisciplinary fields, including genomics, spatial transcriptomics, neurobiology, finance, and economics. Additionally, we strongly encourage submissions that explore connections between traditional nonparametric statistics and emerging areas such as machine learning, neural networks, differential privacy, and transfer learning.

- nonparametric inference
- nonparametric regression
- Bayesian nonparametrics
- graphical models
- shape-restricted inference
- causal inference
- functional data analysis
- topological data analysis
- genomics and spatial transcriptomics

Guest Editor

Dr. Somabha Mukherjee

Department of Statistics and Data Science, National University of Singapore, Singapore, Singapore

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Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mathematics@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

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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).