Special Issue

Bayesian Statistics and Applications

Message from the Guest Editors

We welcome submissions that highlight innovative research and practical applications of Bayesian statistics. Topics of interest include, but are not limited to, the following:

- Bayesian Methodological Developments: advances in Bayesian computation, Bayesian model selection, and nonparametric Bayesian methods.
- **Bayesian Machine Learning**: Bayesian deep learning, probabilistic graphical models, and Bayesian optimization.
- **Bayesian Biostatistics and Personalized Medicine**: Bayesian approaches in clinical trials, genetics studies, epidemiology, and personalized healthcare.
- **Bayesian Environmental and Ecological Modeling**: applications in climate change modeling, natural resource management, and population dynamics.
- **Comprehensive Reviews**: We also welcome highquality reviews that summarize key developments and future directions in Bayesian statistics and its applications.

We invite researchers, practitioners, and academicians to submit their original research articles, comprehensive reviews, and insightful case studies. All submissions will undergo a peer-review process to ensure the quality of scholarly work.

Guest Editors

Dr. Nilotpal Sanyal Department of Mathematical Sciences, University of Texas, El Paso, TX 79968, USA

Dr. Mohamed Elkhouly

Department of Mathematics and Statistics, Cleveland State University, Cleveland, OH 44115, USA

Deadline for manuscript submissions

31 March 2026



Mathematics

an Open Access Journal by MDPI

Impact Factor 2.2 CiteScore 4.6



mdpi.com/si/220832

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

mdpi.com/journal/ mathematics



Σ

Mathematics

an Open Access Journal by MDPI

Impact Factor 2.2 CiteScore 4.6



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).