

Special Issue

Recent Developments in Statistical Research

Message from the Guest Editors

This Special Issue aims to bridge cutting-edge theoretical innovations with practical applications across interdisciplinary domains. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following: statistical learning, machine learning, Bayesian statistics, biomedical statistics, statistical inference, expectation identity, Monte Carlo methods, parametric statistics, nonparametric statistics, functional data analysis, time series, network models, econometrics, educational statistics, psychometrics, survival analysis, risk management, and artificial intelligence with applications. Recent advancements emphasize computational scalability, such as accelerated Markov chain Monte Carlo algorithms for real-time decision-making in precision medicine and climate science. Bayesian hierarchical models integrated with causal inference frameworks are revolutionizing evidence-based policy design, while probabilistic programming languages enhance reproducibility in genomics and environmental studies. Innovations in uncertainty quantification and adaptive neural networks are reshaping AI-driven predictive analytics.

Guest Editors

Dr. Yingying Zhang

Department of Statistics and Data Science, Yunnan University, Kunming, China

Prof. Dr. Dong-Dong Pan

Department of Statistics and Data Science, Yunnan University, Kunming, China

Deadline for manuscript submissions

31 July 2026



Axioms

an Open Access Journal
by MDPI

Impact Factor 1.6



mdpi.com/si/238301

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

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





Axioms

an Open Access Journal
by MDPI

Impact Factor 1.6



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



About the Journal

Message from the Editor-in-Chief

Axioms is dedicated to the foundations (structure and axiomatic basis, in particular) of mathematical theories, not only from a crisp or strictly classical sense, but also from a fuzzy and generalized sense. This includes the more innovative current scientific trends, devoted to discover and solve new challenging problems. The prime goal of *Axioms* is to publish first-class, original research articles under an open access policy with minimal fees for the authors. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Humberto Bustince

Department of Statistics, Computer Science and Mathematics, Public University of Navarra, 31006 Pamplona, Spain

Author Benefits

Open Access

– free for readers, with article processing charges (APC) paid by authors or their institutions.

High visibility:

indexed within SCIE (Web of Science), dblp, and other databases.

Journal Rank:

JCR - Q2 (Mathematics, Applied)