



New Perspectives in Mathematical Statistics

Guest Editors:

Dr. Xiaonan Zhu

Department of Mathematics,
University of North Alabama,
Florence, AL, USA

Prof. Dr. Jong-Min Kim

Statistics Discipline, Division of
Science and Mathematics,
University of Minnesota at Morris,
Morris, MN 56267, USA

Deadline for manuscript
submissions:

30 April 2025

Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to showcase cutting-edge developments and innovative approaches that push the boundaries of traditional methodologies in mathematical statistics. In an era characterized by rapidly advancing technology, increased data complexity, and interdisciplinary collaborations, this Special Issue seeks to highlight the new perspectives of mathematical statistics and its role in addressing contemporary challenges. Contributions to this Special Issue will present novel methods, theoretical advancements, and practical applications aimed at advancing the field of mathematical statistics.

This Special Issue will address a diverse range of topics, including but not limited to Bayesian statistics, statistical analysis for high-dimensional data, nonparametric statistics and distribution-free methods, machine learning integration in statistics, robust statistical inference, spatial statistics, time series analysis, statistical inference, and computational statistics.

Dr. Xiaonan Zhu

Prof. Dr. Jong-Min Kim

Guest Editors





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Humberto Bustince

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

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.

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 - Q1 (Mathematics, Applied)

Contact Us

Axioms Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/axioms
axioms@mdpi.com
[X@Axioms_MDPI](https://twitter.com/Axioms_MDPI)