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 Al-driven predictive analytics.

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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

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