Special Issue

Current Research in Probability Theory and Distribution Theory

Message from the Guest Editor

Probability theory and distribution modeling continue to play a central role across various branches of mathematics and statistics, particularly in applications where uncertainty and random variation must be quantified and interpreted. This Special Issue aims to bring together recent contributions that address both theoretical developments and practical applications of probability models and statistical distributions. Submissions may include the introduction of new distribution families, studies on structural properties, innovative estimation methods, or real-world case analyses grounded in statistical methodology. Researchers are encouraged to submit original research articles or comprehensive review papers on topics including, but not limited to, the following:

- New or generalized probability distributions;
- Classical and Bayesian inference and estimation methods;
- Record values and order statistics;
- Entropy measures and modeling of uncertainty;
- Extreme value theory and survival analysis;
- Applications in finance, engineering, and data-intensive sciences;
- Simulation-based research and real-data modeling.

Guest Editor

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Axioms

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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.

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