Special Issue

Recent Stochastic and Statistical Approaches for Modeling Complex Systems and Dependent Variables

Message from the Guest Editor

The aim of this Special Issue is to advance our understanding regarding the mathematical and statistical analysis of models or functions at any stage of modeling. It aims to publish articles that present sound and generic approaches, original applications and in-depth comparisons of existing approaches that enable us to better model complex systems, understand and improve models; this includes, but is not limited to, stochastic approximations and analysis, and statistical estimations or computations of quantities of interest. Issues related to higher-dimensional problems, functional orthogonal basis, uncertainty quantification, and progress involving non-independent variables are of particular interest. Finally, this Special Issue aims to collect articles related to engineering, physical, environmental and social sciences, mathematics and statistics to create a forum for the latest research and applications in the aforementioned scientific disciplines.

Guest Editor

Dr. Matieyendou Lamboni

1. Department DFR-ST, University of Guyane, 97346 Cayenne, France
2. 228-UMR Espace-Dev, University of Guyane, University of Réunion, IRD, University of Montpellier, 34090 Montpellier, France

Deadline for manuscript submissions

31 December 2025

Axioms

mdpi.com/si/227724

mdpi.com/journal/ axioms

Axioms

an Open Access Journal by MDPI

Impact Factor 1.6

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)