

## Special Issue

# Recent Advances in Statistical Modeling and Simulations with Applications

### Message from the Guest Editor

Every application is the result of a simulation process. The simulation process is one of the most important data processing and analysis processes and uses advanced statistical techniques. The main purpose of statistical modeling is to simulate natural complex phenomena, both to analyze them as well as to predict processes in the future. Therefore, the objective of any simulation is to identify the optimal or satisfactory solution to a problem through the operation of a real system. Often, dissatisfaction of the above objectives is due to the complexity of the problem under dig data processes. Topics of interest for this Special Issue include but are not limited to the following:

- Big data;
- Machine learning;
- Neural networks;
- Image analysis;
- Medical imaging;
- Bayesian statistics;
- Applied statistics;
- Medical statistics;
- Ecology;
- Environmental sciences

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### Guest Editor

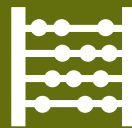
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### Deadline for manuscript submissions

closed (20 February 2024)



## 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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### Editor-in-Chief

Prof. Dr. Humberto Bustince

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