# Special Issue

# New Perspectives in Flexible Probability Distributions and Its Applications

# Message from the Guest Editor

Probability distributions are the building blocks of statistical modeling and inference. It is therefore of the utmost importance to know which distribution to use in what circumstances, as wrong choices will inevitably result in a biased analysis. A plethora of new distributions are constantly being proposed, and it is important to be able to compare them and guide practitioners as to which distribution to use when. In this Special Issue, we therefore invite authors to contribute papers that either compare existing distributions or propose new ones. The comparison as well as the newly proposed distributions should be considered within the context of the desiderata of flexible probability distributions: versatility, interpretability, tractability, random number generation, straightforward parameter estimation, and model reduction. These properties should be used to ensure that new models have advantages over existing ones. We hope to see many interesting contributions that explore either real lines, positive real half-lines (including censoring), integers, circles, spheres, toruses, cylinders, or other manifolds.

### **Guest Editor**

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## Deadline for manuscript submissions

closed (30 January 2024)



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# 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

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