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Symmetric and Asymmetric Distributions: Theoretical Developments and Applications

Guest Editor:

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Deadline for manuscript submissions:
closed (30 September 2019)

Message from the Guest Editor

Dear Colleagues,

In recent decades, the number of theoretical and applied statistical works related to symmetric distributions has proliferated; the majority of these works are based on the Azzalini's scheme. This strategy uses a symmetric distribution as baseline, then a parameter is added to the standard model that controls the asymmetry of the new family of probability distributions. The most widespread and popular model is the one based on the normal distribution that gives rise to the skew normal distribution.

In this Special Issue on symmetrical distributions, researchers are invited to contribute original research papers and case studies related to this topic. Submissions that extend the Azzalini's scheme or propose alternatives, both for univariate and multivariate, continuous and discrete distributions are welcome...

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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