

Special Issue

Symmetric Studies of Distributions in Statistical Models

Message from the Guest Editors

Symmetric distributions are commonly employed in parametric statistical modeling for various applications, such as reliability and robustness analysis, due to their strong convergence to population distribution. However, many experimental datasets, particularly in financial contexts and reliability studies, require models with heavier or lighter tails than standard parametric families or a model featuring a tail cutoff. In these instances, asymmetric distributions including Laplace, exponential power, and Weibull distributions have gained increased attention. Therefore, we welcome submissions that emphasize the novel applications of symmetric and asymmetric distributions to address data analysis challenges in complex engineering problems within real-world contexts.

Guest Editors

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Prof. Dr. Hui Gao

Prof. Dr. Jun Xie

Deadline for manuscript submissions

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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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