



Symmetry in Multivariate Analysis

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Message from the Guest Editors

Dear Colleagues,

Multivariate statistical theory and methodology constitute essential requirements and necessary ingredients for successful research in the new era of data science. Because of computer technology advancements, gathering and analyzing complex and non-regular data with more than one feature have become feasible.

Complex data are collected from various scientific fields, such as atmospheric environmental science, social science, psychological and biomedical studies, genetics in bioinformatics, epidemiology, digital imaging information, animal behavior studies, and machine learning, to mention a few. Complex data usually include data sets that are extremely large and/or have complex structures. It becomes challenging to conduct data analysis using conventional statistical methods, software packages, and/or commonly used statistical tools. In developing workable processes to address these issues, statisticians play a vital role.





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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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