



Symmetry in Statistics and Data Science

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Message from the Guest Editor

Dear Colleagues,

Symmetry is a central notion in statistics and data science, appearing in various forms in artificial intelligence, data analysis, distribution theory, modeling, networks, nonparametric estimation, parametric estimation, high dimensional data, statistical tests, as well as in many other branches of modern interest.

The objective of this Special Issue is to publish highly motivated, original, and innovative research articles that use the notion of symmetry on current topics in statistics and data science.

The scope includes but is not limited to the following topics:

- Artificial intelligence;
- Bayes methods;
- Data analysis;
- Dimension reduction and variable selection;
- Distribution theory;
- Econometrics;
- Estimation;
- Inference with high-dimensional data;
- Inference of stochastic processes;
- Machine learning;
- Modelling;
- Nonparametric function estimation;
- Sample surveys;
- Statistical algorithms;
- Statistical methods for imaging;
- Time series analysis.





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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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