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Advances in Quasi-Symmetry Models

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

This Special Issue focuses on contingency table analysis in the statistical analysis of categorical data. The contingency table plays an important role in various fields. The issues of symmetry rather than independence (null association) are specifically considered for the analysis of square contingency tables because many observations tend to concentrate on or near the main diagonal. Caussinus proposed quasi-symmetry and used it as a bridge between symmetry and marginal homogeneity in square tables. The result had an impact on some methodological developments in the statistical analysis of categorical data. A special issue of Annales de la Faculté des Sciences de Toulouse, Mathématiques was published in 2002 which contained the papers written by internationally distinguished authors on topics related to quasi-symmetry. Almost twenty years have passed since then, and many more papers which treat quasi-symmetry from a variety of perspectives have been published. Therefore, we are soliciting contributions (research and review articles) covering a broad range of topics on symmetry and quasi-symmetry.

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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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