Discrete Mathematics and Symmetry

Guest Editor:

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Message from the Guest Editor

One of the core concepts essential to understanding natural phenomena and the dynamics of social systems is the concept of "relation". Furthermore, scientists rely on relational structures with high levels of symmetry because of their optimal behavior and high performance. Human friendships, social and interconnection networks, traffic systems, chemical structures, etc., can be expressed as relational structures. A mathematical model capturing the essence of this situation is a combinatorial object exhibiting a high level of symmetry, and the underlying mathematical discipline is algebraic combinatorics—the most vivid expression of the concept of symmetry in discrete mathematics……

Special Issue

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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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