

Special Issue

Recent Advances in Discrete and Fractional Mathematics

Message from the Guest Editors

Although Discrete and Fractional Mathematics has always played an important role in Mathematics, in recent years, this role has significantly increased in several branches of these fields, including, but not limited to: Gromov hyperbolic graphs, domination theory, differential of graphs, polynomials in graphs, alliances in graphs, complex systems, topological indices, discrete geometry, fractional differential equations, fractional integral operators, and discrete and fractional inequalities. The aim of this Special Issue is to attract leading researchers in these areas in order to include new high-quality results on these topics involving their symmetry properties, both from a theoretical and an applied point of view.

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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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