Special Issue

Current Trends in Symmetric Polynomials with their Applications

Message from the Guest Editor

The symmetric polynomials have various applications in many branches of mathematics and mathematical physics. These polynomials are defined by linear polynomials (differential relations), globally referred to as functional equations that arise in well-defined combinatorial contexts, and they lead systematically to well-defined classes of functions. The symmetric functions for the sequence of polynomials are used in analyzing sequences of functions, in finding a closed formula for a sequence, in finding recurrence relations and differential equations, in relationships between sequences, in asymptotic behavior of sequences, and in proving identities involving sequences. We aim to design this special issue for researchers with an interest in pure and applied Mathematics. This special issue aims to present theory, methods, and applications of recent/current symmetric polynomials.

Guest Editor

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About the Journal

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.

Editor-in-Chief

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