

Special Issue

Symmetry in Pure Mathematics and Real and Complex Analysis

Message from the Guest Editor

The theory of functions (of a complex variable) was one of the great achievements of nineteenth-century mathematics. It provided an extremely powerful tool with immense and immediate applications. On the other hand, the desire to generalize to higher dimensions was irresistible. This was proceeded along two paths: one focused on functions of several complex variables as the generalization of functions of one complex variable, while the other focused on a function of one complex variable as a map of a domain in C to another domain in C and to study, as a generalization, maps of domains in C^n . The symmetric properties of functions are of great importance for the solutions of problems in many areas of mathematics. The role of symmetry has also proven to be fundamental in other different disciplines, such as biology, chemistry, and psychology. In this Special Issue, this correlation will be in the foreground. The aim of this Special Issue is to present original research and review articles related to real and complex analysis and its applications which not only provide new results or methods but may also have a great impact on the concept of symmetry.

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.

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