Symmetry Application in Geometric Function Theory

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Deadline for manuscript submissions:
closed (31 December 2023)

Message from the Guest Editors

Dear Colleagues,

Geometric function theory is an active research field of mathematics dealing with one and higher-dimensional complex analysis—in particular, with numerous applications in both mathematical sciences and engineering fields (for instance, the theory of harmonic mappings, analysis of PDEs, quasiconformal and quasiregular mappings, special functions, and fluid flow problems). Geometric function theory and symmetry are closely related; for instance, Möbius transformation theory and hyperbolic geometry both use symmetric principles. Additionally, function theory has extensively explored starlike functions with regard to symmetric points. The geometry of mappings and domains can be referred to as geometric function theory.

The main goal of publishing this Special Issue is to promote global cooperation, particularly in symmetry applications in the field of geometric function theory. A wide spectrum of function theorists and geometers from around the world are invited to contribute in order to accomplish this goal...

mdpi.com/si/154358

SpecialIssue

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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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