

Symmetry in Discrete and Combinatorial Geometry

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Message from the Guest Editors

Symmetry is a frequently recurring theme in mathematics, in science and nature, and in the arts. In mathematics, its most familiar manifestation appears in geometry, most notably discrete and combinatorial geometry, and in closely related areas.

This Special Issue of *Symmetry* features articles about geometric, combinatorial or algebraic symmetries in discrete objects from discrete and combinatorial geometry. We are soliciting contributions covering a broad range of topics related to symmetry, including convex and nonconvex polyhedra in spherical, Euclidean, hyperbolic, or other spaces; convex polytopes; tiling and space-fillers; polyhedra and crystallography; skeletal polyhedra; crystal nets; rigidity of frameworks; abstract polytopes and C-groups; maps on surfaces; geometric graphs; point configurations; Delone sets; aperiodic structures; packing and covering; sphere packings; soft packings, nested clusters, and condensed matter; reflection groups and Coxeter groups; polyhedral models; and polyhedra in art, design, and architecture.



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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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