Special Issue

Differential Geometry, Geometric Analysis and Their Related Applications

Message from the Guest Editor

This Special Issue is devoted to novel research on differential geometry, geometric analysis, and their wide-ranging applications. The topics covered in this Special Issue include, but are not limited to:

- Differential Geometry: Riemannian geometry, manifolds, Finsler geometry, symplectic geometry, contact geometry, complex and Kähler geometry, geodesic mappings, Minkowski spaces, almost geodesic mappings, etc.
- Geometric Analysis: minimal surfaces, geometric flows, geometric measure theory, geometric functional theory, geometric inequalities, such as the isoperimetric inequality, Sobolev inequalities, and the Minkowski inequality.
- Geometric Methods in Image Processing and Computer Vision: including topics such as geometric transformations, shape analysis, geometric modeling, and geometric methods for image registration and segmentation.
- Applications in Engineering and Applied Sciences.

All the related topics on the areas of differential geometry and geometric analysis will be of interest to this Special Issue.

Guest Editor

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Deadline for manuscript submissions

closed (31 March 2025)

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Mathematics

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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