

Special Issue

Differential Geometry and Its Applications in Theoretical Physics

Message from the Guest Editor

The aim of this Special Issue of *Mathematics* is to highlight current trends in the development of differential geometry, to present newly developed structures, and to discuss the methods used in their study. An important part of the project is the broad area of applications of differential geometry in theoretical physics. The mutual influence of modern algebra and differential geometry is also an essential aspect of this project. Research in the following thematic areas falls within the scope of the Special Issue, although it is not limited to them:

- Connections in fiber bundles, gauge theories, and their generalizations;
- Lie groups, Lie algebras, Poisson algebras, and their generalizations;
- Riemannian geometry and general relativity;
- Noncommutative geometry;
- Geometric structures in string theory and M-theory;
- Ternary algebras and quantum physics.

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).