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Geometry

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Message from the Editor-in-Chief

From its foundations in Euclid's Elements, geometry is perhaps the oldest branch of formal mathematics. Its visual nature renders it inextricably linked to physical reality, and, at the same time, its axiomatic formulation escalates it to the highest pedestals of abstraction and purity. The journal Geometry is dedicated to this ancient subject but particularly emphasizes geometry's ubiquity and multi-disciplinarity: from mathematical physics to number theory, from representation theory to topology, and indeed, relevant to our times, from AI-assisted conjectures to formal computer proofs. With rigorous peer review, we welcome high-quality original research as well as survey papers, especially encouraging those which use geometry as a connection between different fields.

Editor-in-Chief
Prof. Dr. Yang-Hui He

Aims

Geometry (ISSN 3042-402X) is an international, peer-reviewed, open access journal on geometry. It publishes reviews, research papers, and short communications in all areas of geometry theory and applications. The journal may be of special interest in Euclidean geometry, differential geometry, algebraic geometry, complex geometry, discrete geometry, computational geometry, geometric group theory, and convex geometry.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers. A full account of the research must be provided so that the results can be reproduced. Electronic files or software which provide the full details of the calculations, proof, and experimental procedures can be uploaded as supplementary material (if unable to be published in a normal way).

Scope

The main topics include, but are not limited to, the following:

- Euclidean geometry
- differential geometry
- algebraic geometry
- complex geometry
- discrete geometry
- computational geometry
- geometric group theory
- convex geometry
- geometric algorithm
- mathematical physics
- number theory
- representation theory
- topology
- Manifolds

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