Special Issue

Computational Geometry and Computer-Aided Geometric Design

Message from the Guest Editor

This Special Issue includes articles spanning both pure and applied mathematics, reflecting the breadth of computational geometry and CAGD. The key themes covered in this collection include the following:

- **Geometric modelling:** Advancements in shape representation, surface reconstruction, and digital fabrication,
- **Computer-Aided Geometric Design:** Techniques for curve and surface modelling, CAD applications, and interactive geometric tools,
- **AI applications:** Machine learning approaches that incorporate geometric reasoning, such as neural implicit representations and generative geometric models,
- **Optimization applications:** Applications of computational geometry to optimization.

By bringing together researchers from academia and industry, this Special Issue aims to foster collaboration and inspire new developments in computational geometry and geometric design. We hope that the contributions presented here will serve as a valuable resource for those working at the intersection between mathematics, AI, and engineering.

Guest Editor

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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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