

## Special Issue

# Trends in Differential Geometry and Algebraic Topology

### Message from the Guest Editor

We are pleased to invite you to contribute to a Special Issue of *Axioms* titled "Trends in Differential Geometry and Algebraic Topology." This issue aims to showcase cutting-edge research and novel perspectives at the intersection of these two fundamental areas of mathematics. As a recognized expert in the field, your contribution would be invaluable in shaping the discourse on recent developments and future directions. We welcome original research articles, comprehensive reviews, and insightful perspectives that explore the following:

- Advances in differential geometric structures and their applications, including Riemannian and symplectic geometry;
- Higher category theory, homotopy theory, homology theory, algebraic K-theory;
- Interplay between differential geometry and algebraic topology;
- Index theory, noncommutative geometry;
- Emerging computational methods in geometric and topological analysis;
- Applications of differential geometry and algebraic topology in physics, data science, or other disciplines.

We are excited about the possibility of featuring your work in this Special Issue and contributing to the advancement of these vital mathematical fields.

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### Guest Editor

Dr. Byungdo Park

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### Deadline for manuscript submissions

30 April 2025



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## About the Journal

### Message from the Editor-in-Chief

*Axioms* is dedicated to the foundations (structure and axiomatic basis, in particular) of mathematical theories, not only from a crisp or strictly classical sense, but also from a fuzzy and generalized sense. This includes the more innovative current scientific trends, devoted to discover and solve new challenging problems. The prime goal of *Axioms* is to publish first-class, original research articles under an open access policy with minimal fees for the authors. We would be pleased to welcome you as one of our authors.

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### Editor-in-Chief

Prof. Dr. Humberto Bustince

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