



Discrete Curvatures and Laplacians

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Message from the Guest Editors

The artificial separation and delimitation of mathematics into “continuous” and “discrete” that sadly still permeates many curricula, thus forever skewing students’ perception, is nowhere less true than in the context of curvature and Laplacians, where the boundary is fluid and where ideas and methods from the classical setting not only influence the discrete setting, but where the latter becomes largely the mainstream, influential setting.

We therefore invite you to submit papers appertaining to the whole spectrum spanned by these notions, being they theoretical or applied, and in particular to the discretizations of curvature and Laplacians and their manifold uses in complex networks, graphics, imaging and deep learning. Including but not limited to:

- discrete curvature;
- Discrete Laplace operators;
- Ollivier Ricci curvature;
- Forman Ricci curvature;
- geometric flow and applications (Ricci curvature flow, mean curvature flow, etc.);
- Combinatorial Hodge theory;
- geometric deep learning;
- digital geometry processing;
- geometric modelling;
- information geometry.





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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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