

# Special Issue

## Geometry and Topology in Statistics

### Message from the Guest Editor

One can expect that the development of statistical geometry will be a major trend in the next decade. Due to numerous applications in data analysis, artificial intelligence and signal processing, along with a strong potential for new theoretical results, this emerging axis of research is of increasing interest among both the geometry and statistics communities. This Special Issue aims at publishing papers of high-quality related to information geometry, geometric statistics, topology for learning and data analysis. Some of the scientific topics of interest may include, but are not limited to: probabilities on manifolds, shape space, optimal transport, statistical manifolds, geometry of graphs, topology in data, geometry in artificial intelligence, estimation and sampling in high dimensions. Submissions describing applications are welcome.

### Guest Editor

Dr. Stéphane Puechmorel

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### Deadline for manuscript submissions

closed (31 December 2021)



## Mathematics

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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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### Editor-in-Chief

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