# Special Issue

# Statistical Methods for High-Dimensional and Massive Datasets

### Message from the Guest Editor

In recent years there has been an explosion in the amount of data that researchers in different fields collect. This creates the need for better statistical methods to analyse the massive (very high number of observations) and high-dimensional (high number of variables) data being collected. Therefore, there has been an interest for the development of theoretically and computationally efficient methodology for this type of data. This Special Issue will collect a number of papers which provide methodology to analyse both massive and high-dimensional data. We look for methodology in a wide spectrum of areas: computationally efficient algorithms for massive data, real-time algorithms to analyse stream of data, and feature selection and feature extraction methods to analyse high-dimensional data. We are also looking for efficient ways to apply statistical learning methods like clustering, classification, and discrimination in high-dimensional settings. Finally, we are interested in methodology beyond the classical vectorial setting, i.e., for functional, tensorial types of data. Applications to real data in different sciences will also be considered.

### Guest Editor

Dr. Andreas Artemiou
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### Deadline for manuscript submissions

closed (31 August 2024)

# 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.

### Editor-in-Chief

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**Rapid Publication:**
manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

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