

Special Issue

Recent Advances in Mathematical Models and Algorithms for Big Data Analytics

Message from the Guest Editors

Nowadays, mathematical models and information technology in a big data context have become a popular new research topic among academics and the industry. Big data refers to a collection of data sets that are too large or too complex for efficient processing and analysis using traditional database management tools. The development of mathematics models and information technology in a big data context will enhance decision making, insight discovery, and process optimization. However, there are still numerous technical challenges and issues that need to be improved and broadly explored. This Special Issue aims to provide readers with the latest and most innovative research on all theoretical and practical aspects of information technology and mathematical models for big data analytics. The aim of this Special Issue is to present a collection of high-quality research articles on state-of-the-art mathematical models, information technology, and big data analytics.

Guest Editors

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Prof. Dr. Ping Guo

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).