

Special Issue

Advances in Numerical Analysis and High-Performance Scientific Computing

Message from the Guest Editor

This Special Issue aims to gather cutting-edge research at the critical intersection of numerical analysis and HPC, focusing on the development, analysis, and application of mathematical algorithms that are efficient, scalable, and robust on modern parallel computing platforms. We seek contributions that not only advance the theoretical underpinnings of numerical methods but also demonstrate their practical effectiveness in solving large-scale, complex problems across science and engineering. We invite submissions covering, but not limited to, the following key areas:

- Advanced Numerical Algorithms and Analysis
- High-Performance and Parallel Computing
- Applications

We encourage submissions that detail both the rigorous mathematical analysis and the practical high-performance implementation and scaling results of the proposed numerical techniques.

Guest Editor

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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).