Special Issue

Parallel, Distributed Computing and Computational Mathematics

Message from the Guest Editor

Researchers are invited to submit their latest research and insights that demonstrate novel mathematical approaches to algorithm design, performance analysis, and optimization in parallel and distributed systems. Topics of interest include, but are not limited to, the following:

- **Parallel algorithms;**
- **Distributed data structures;**
- **Numerical simulations;**
- **Mathematical foundations of high-performance computing;**
- **Theoretical insights into scalable algorithm design;**
- **Advanced linear algebra techniques for high-performance computing;**
- **Optimization algorithms for resource management in distributed systems;**
- **Graph theory applications in network design and optimization.**

  Through this Special Issue, we aim to provide a platform for the exchange of cutting-edge research that bridges the gap between theoretical mathematics and practical computing, driving forward the capabilities and applications of parallel and distributed systems.

Guest Editor

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Deadline for manuscript submissions

closed (30 November 2025)

MDPI

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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