

Special Issue

Mathematical Methods in Parallel Computing and High- Performance Computing

Message from the Guest Editor

This Special Issue, entitled "Mathematical Methods in Parallel Computing and High-Performance Computing", aims to explore the latest advancements in mathematical techniques that enhance the efficiency and scalability of parallel and high-performance computing (HPC) systems. This Special Issue seeks to bring together researchers and practitioners to discuss innovative algorithms, numerical methods, and theoretical frameworks that address the challenges of large-scale data processing and complex computational tasks. The focus will be on how mathematical approaches can optimize performance, reduce computational time, and improve the accuracy of simulations in various scientific and engineering domains. The goal is to foster interdisciplinary collaboration and promote the development of robust, scalable, and efficient computational methods for the next generation of HPC systems.

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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Prof. Dr. Francisco Chiclana

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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).