

Special Issue

Artificial Intelligence and Scientific Computing: Mathematical Techniques and Applications

Message from the Guest Editors

Artificial intelligence technology and scientific computing are revolutionizing virtually every application domain, including computational chemistry, industrial control, computational biology, quantum computing, material discovery, etc. Scientific computing reveals the laws of the real-world using simulation computing. Many phenomena can be simulated properly by solving mathematic equations on computers. However, many problems are beyond the capabilities of the traditional numerical approach and require more powerful and more efficient computational technology. The primary aim of this Special Issue is to bring together original research discussing innovative efforts on analytical, numerical, and AI-based methods in scientific computing. Submissions showcasing the latest developments in AI-driven data analysis methods, AI-driven controlling and scheduling methods, AI-driven scientific discovery, and AI-driven calculation are welcome.

Guest Editors

Dr. Jue Wang

Dr. Jidong Zhai

Dr. Weile Jia

Deadline for manuscript submissions

closed (20 November 2024)



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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 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).