



mathematics



an Open Access Journal by MDPI

Artificial Intelligence and Scientific Computing: Mathematical Techniques and Applications

Guest Editors:

Dr. Jue Wang

Computer Network Information
Center, Chinese Academy of
Sciences, Beijing 100083, China

Dr. Jidong Zhai

Department of Computer Science
and Technology, Tsinghua
University, Beijing 100084, China

Dr. Weile Jia

Institute of Computing
Technology, Chinese Academy of
Science, Beijing 100190, China

Deadline for manuscript
submissions:

20 November 2024

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.



mdpi.com/si/130094

Special Issue



Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and
Informatics, De Montfort
University, The Gateway,
Leicester LE1 9BH, UK

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

Journal Rank: JCR - Q1 (*Mathematics*) / CiteScore - Q1 (*General Mathematics*)

Contact Us

Mathematics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/mathematics
mathematics@mdpi.com
[X@MathematicsMDPI](https://twitter.com/MathematicsMDPI)