Special Issue

Computational Mathematics and Artificial Intelligence

Message from the Guest Editors

Computational mathematics and artificial intelligence have somehow been developed in synergy since the early days of their development, with tremendous advances being made in these two fields over the last two decades. Computational mathematics has served as the backbone of many advances in artificial intelligence for years. On the other hand, an increasing amount of research reports that AI-based algorithms can be developed to satisfactorily address pertinent issues in computational mathematics. This Special Issue focuses on recent advances in interdisciplinary approaches and applications involving computational mathematics and artificial intelligence. Topics of interest include the following: efficient numerical/approximation methods, algorithmic and computational complexity, large-scale optimization, stochastic methods, computational statistics, machine learning algorithms, computational methods for deep learning, and applications like fluid computational dynamics, bioinformatics, molecular modeling, computer vision, and natural language processing.

Guest Editors

Dr. Sio Iong Ao

Prof. Dr. Vasile Palade

Prof. Dr. Oscar Castillo

Prof. Dr. Geoffrey McLachlan

Deadline for manuscript submissions

31 December 2025

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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