

Special Issue

Application of Artificial Intelligence to Computational Fluid Dynamics Problems

Message from the Guest Editors

Research on Artificial Intelligence (AI) algorithms and models has significantly increased in recent years. This has opened up new opportunities for fluid dynamics and its applications in science, engineering, and medicine. However, several challenges remain unresolved, including the use of large data and the associated computational costs and algorithmic uncertainty, particularly for sparse and noisy data. This Special Issue welcomes contributions that address the algorithmic, mathematical, and implementation challenges of Artificial Intelligence and Machine Learning in Fluid Dynamics.

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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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