

Special Issue

Computational Fluid Dynamics and Its Related Applications

Message from the Guest Editor

In this Special Issue dedicated to computational fluid dynamics (CFD) and its diverse applications, we explore the transformative role that computational techniques play in understanding and solving complex fluid flow problems across various industries. CFD has evolved into a pivotal tool in fields such as aerospace, the automotive industry, environmental engineering, and biomedical sciences, allowing researchers and engineers to simulate fluid behavior with unparalleled accuracy and efficiency. This Special Issue features a collection of cutting-edge research articles that showcase innovative methodologies, novel algorithms, and practical applications of CFD. Contributors delve into topics ranging from turbulence modeling and multiphase flows to the integration of machine learning techniques for enhanced predictive capabilities. Real-world case studies highlight the impact of CFD on optimizing designs, improving safety, and reducing costs.

Guest Editor

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Deadline for manuscript submissions

28 February 2026



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



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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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