

Special Issue

Recent Advances in Computational Fluid Mechanics

Message from the Guest Editors

We are pleased to invite submissions to the Special Issue titled “Advances in Computational Fluid Mechanics”, which aims to highlight recent progress, novel methodologies, and interdisciplinary approaches in the field. This Special Issue welcomes original research articles that focus on the development and application of numerical techniques, including, but not limited to, the finite difference method (FDM), finite volume method (FVM), spectral/finite element method (SEM/FEM), lattice Boltzmann method (LBM), smoothed-particle hydrodynamics (SPH), moving particle semi-implicit method (MPS), moving least-squares method (MLS), and material point method (MPM), as well as high-performance computing strategies, turbulence modeling, multi-phase and reactive flow simulation, and data-driven or machine learning-enhanced computational techniques.

We especially encourage interdisciplinary works that bridge computational methods with experimental validation, theoretical analysis, or emerging data-driven techniques. Review and tutorial articles that provide insight into the current challenges and future trends in computational fluid mechanics are also welcome.

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About the Journal

Message from the Editorial Board

We encourage you to contribute a research or comprehensive review article for consideration and publication in *Modelling* (ISSN 2673-3951), an international open access journal, which is published quarterly online by MDPI. The editorial board and staff of *Modelling* are dedicated to providing an advanced forum for studies related to the development and applications of modelling and simulation techniques. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications.

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