Mathematical Modeling and Numerical Simulation in Fluids

Guest Editor:

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Message from the Guest Editor

Fluid-flow is dealing with motions of a fluid under unbalanced forces and it typically associates with the transport phenomena. Understanding fluid-flows and the associated physical processes are important in many disciplines, including aerodynamics, hydraulics/hydrodynamics and chemical/environmental engineering, etc. In addition to experimental and survey studies, with the advancement of computational technology, mathematical/numerical models have become powerful tools to study fluid flows and the associated processes.

This Special Issue is devoted to mathematical and computational investigations of fluid flows with associated physical processes. This issue contains articles on the developments, advancements and applications of mathematical models, numerical methods/schemes, numerical analysis, techniques and algorithms in a wide spectrum of fluid-flows-related processes. It should serve as a convenient forum for discussing trends and achievements, finding new solutions and strengthening research collaborations and will be of interest to a wide range of specialists in fluids mechanics, hydraulics/hydrodynamics, coastal engineering, sediment transport and environmental science.

Special Issue

Editor-in-Chief

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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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