

Special Issue

Recent Advances in Computational Fluid Mechanics and Heat Transfer

Message from the Guest Editors

The modelling and analysis of fluid flow and heat transfer is an area of ongoing academic interest but also of industrial significance. Across a wide range of industrial applications, fluid flow and heat transfer play an integral role whether considering, for example, heat transfer in laminar or turbulent regimes, steady or unsteady conditions, or Newtonian or non-Newtonian fluids.

The advent of ever-increasing computational capacity has enabled higher-fidelity simulations. These advancements provide greater fundamental insights into flow and heat transfer phenomena, aiding in the creation of more effective and efficient industrial designs.

However, as industrial applications involve more complex physical systems for which datasets do not exist, the need for higher-fidelity simulations that can be applied across a range of phenomena becomes even more critical.

This Special Issue aims to enhance our physical understanding and practical application of computational fluid mechanics and heat transfer. We welcome submissions that contribute to these goals.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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