Applied Computational Fluid Dynamics and Thermodynamics

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Message from the Guest Editors

Dear Colleagues,

In the ever-evolving engineering landscape, new challenges must be met, and the combined application of numerical simulations plays a relevant role. High-performance computing and computational fluid dynamics (CFD) have the potential to strongly support the investigation of many engineering problems regarding fluid mechanics, transport phenomena, and thermodynamics.

In this context, the principal aim of this Special Issue is to collect the latest research regarding the development and validation of algorithms and computational methodologies of applied computational fluid dynamics and thermodynamics for the numerical simulation of complex engineering problems belonging to the fields of automotive engineering, aeronautics, aerospace, green technology, transportation, engineering design, energetic engineering, hydraulic engineering, etc.

All computational methods are acceptable (finite difference, finite volume, and spectral methods), as are commercial and open-source codes.

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Special Issue

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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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