Special Issue

The Advances and Applications of Computational Fluid Dynamics and Heat Transfer

Message from the Guest Editors

The main goal of the Special Issue "The Advances and Applications of Computational Fluid Dynamics and Heat Transfer" is to provide an opportunity for researchers and practitioners to present their latest developments based on computational fluid dynamics (CFD) in the field of hydraulic machines, fluid power, and heat transfer technologies. In this Special Issue, high-quality research articles, review papers, and case studies are welcome. Topics include, but are not limited, to the following applications:

- Hydraulic displacement machines—pumps, motors and hydrostatic transmissions;
- Hydraulic turbomachinery—pumps, compressors, fans, water and wind turbines;
- Hydropower and hydromechanical equipment;
- Fluid power—electro-hydraulic devices and systems for drives and control;
- Heat transfer—energy conversion technologies and systems;
- Sound and vibrations analyses based on fluid–structure theory.

This Special Issue also aims to serve as a platform for researchers and practitioners to share their latest findings and innovations, fostering the exchange of ideas and collaboration.

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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.

Editor-in-Chief

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