

## Special Issue

# Applications of Computational Fluid Dynamics (CFD) in Practical Engineering

### Message from the Guest Editors

This issue aims at providing comprehensive coverage of all aspects associated with computational fluid dynamics in practical engineering, which include simulation, coding, developing techniques, characterization, modeling, applications, etc.

Computational fluid dynamics (CFD) is a science that involves computer-based simulation and quantitative analysis of fluid flow phenomena based on conservation laws. Along with their assembly, the testing of machine parts through the use of computational fluid dynamics is essential in practical engineering. Techniques involved are the finite element method, finite volume method, spectral element method, AI techniques, and direct numerical simulation, which is used to ensure each piece of equipment is manufactured in the best of all conditions. TOPICS

- Application of CFDs in fields like cavitation, thermal analysis, Aerodynamics, etc.;
- Application in biomechanics, i.e., blood flow, biomechanical devices, etc.;
- Empirical modeling of physically important parameters;
- New developments in numerical techniques;
- Stability analysis of numerical schemes.

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### Guest Editors

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### Deadline for manuscript submissions

closed (31 July 2023)



## Applied Sciences

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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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### Editor-in-Chief

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