Special Issue

Novel Advances in Computational Fluid Mechanics (CFM)

Message from the Guest Editors

We invite submissions exploring cutting-edge research and recent advances to this Special Issue, entitled "Novel Advances in Computational Fluid Mechanics (CFM)". Novel advances in computational methodologies (advanced numerical, AI methods, etc.) and applications (boiling, nanofluids, phase change material PCM, etc.) related to engineering are pertinent to this Special Issue. Hydrodynamics, turbulence flow, multiphase flow, gas dynamics, rheology, tribology, fluid–structure interaction, nanofluid, etc., belong to the definition of fluid in NACFM, given that computational methodologies and models play an essential role in studies in the field. NACFM favor applications on energy, chemical reactors and transport processes, ocean/atmospheric pollution, biomedicine, geological disposal, performance-based fire protection, flow-accelerated corrosion, structure integrity, and air/sea/land vehicles, among others. Benchmark solutions and comprehensive paper reviews are also within the scope of this Special Issue.

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Deadline for manuscript submissions

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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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