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Computational Fluid Dynamics Modelling of Fluid Flow and Heat and Mass Transfer

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Message from the Guest Editors

Computational fluid dynamics (CFD) is a useful tool for numerical modelling of fluid flow that exists in industrial and environmental processes. Thanks to the development of computer systems to solve differential equations of fluid mechanics, it is possible to analyse various parameters of flow such as velocity, pressure, temperature, etc., including viscosity and compressibility of fluid, porous media, multiphase systems, chemical reactions and combustion processes. The application of CFD facilitates the design and optimization of various processes, saving time and money. CFD analysis is also helpful when some physical phenomena are hardly measurable during experimental studies.

The present Special Issue will focus on computational simulation of fluid flow and heat and mass transfer in engineering and natural systems. Papers dealing with current developments of numerical analysis, as well as reviews of CFD modelling, are also welcome.

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Special Issue



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Message from the Editor-in-Chief

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