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CFD Modeling of Two-Phase Flows

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Message from the Guest Editor

Dear Colleagues,

The flow of two distinct, but interacting fluid phases can be characterised as a two-phase flow. Two-phase flows occur in a wide range of natural processes as well as industrial applications. The necessity for design optimisation, performance improvement as well as safety assessment of various industrial systems and products that utilise two-phase flows, create the need for detailed, quantitative information regarding such complex flows. In the last few decades, advancements in the development of robust numerical modelling techniques and methodologies as well as in the availability of computational resources, has rendered Computational Fluid Dynamics (CFD) a quite useful and robust tool for the prediction of two-phase flows.

The main goal of this Special Issue is to bring together users and developers of different CFD-based approaches and codes, in order to share their experience from the development, validation and/or application of two-phase flow CFD tools for the prediction of a variety of different types of two-phase flow, for fundamental as well as applied research purposes.

Dr. Anastasios Georgoulas

Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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