Special Issue

Environmental Computational Fluid Dynamics

Message from the Guest Editor

The understanding of the processes of the environment presupposes the conduction of experiments and/or of numerical studies (the ideal is the combination of both). Concerning the latest, computational fluid dynamics (CFD) seems to be the most powerful and promising tool that can help in the understanding of environmental fluid flow and thermal/chemical phenomena. This is justified by the fact that Navier–Stokes (N–S) equations (and the transport equations) are solved numerically in a computational grid of high resolution, and CFD is the only way to achieve the best answers, as N–S equations cannot be solved analytically. The present issue welcomes scientific works of high quality that try to give valid answers to environmental questions using CFD methodology or, even better, using a combination of experiments and CFD. Special attention will be given to state-of-the-art approaches and findings. For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/water/special_issues/fluid_dynamics_environment

Guest Editor

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Deadline for manuscript submissions

closed (31 May 2021)

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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