Special Issue

New Trends and Prospects of CFD Modeling and Environmental Flows upon Global Warming

Message from the Guest Editor

The scope of climate targets has significantly changed since the early 1980s. Climate politics and policy now recognize advanced simulation and modeling methods and scenarios. The reliability of future trends in global warming (projections) is a function of the robustness of theoretical and mathematical approaches as well as the integrity and process of data measured over the past decades. Global impact mathematical models may augment our knowledge of human systems and how they may be affected by climate change. However, major gaps and challenges still exist. Some models underestimate the extremeness of impacts in sectors such as agriculture, terrestrial ecosystems, and heat-related human mortality. These examples show that modelling outcome may have considerable impacts on economic assessments of climate change. Mismatches between simulation results and observation trends are still poorly understood. Substantial uncertainty in interpretation of the observed climate change may be inevitable with using current generation of climate models. This Special Issue will focus on such challenges and gaps with a strong focus on solutions and actions.

Guest Editor

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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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