Special Issue

Challenges to Interdisciplinary Application of Hydrodynamic Models

Message from the Guest Editors

With the recent advances in computational technology, models for numerically simulating hydrodynamic processes are being applied to practical research in various kinds of fields. Application examples from different fields are expected to inspire researchers in other fields, and may be useful in motivating model developers of fluid mechanics. This Special Issue aims to cover analytical case studies on regional practical water-related problems that combine models of hydrodynamic processes with numerical models developed in other disciplines. Challengeable interdisciplinary applications of hydrodynamic models in any research field are welcome, including discussions on water quality problems and habitats of organisms, combining the state change process of substances with the hydrodynamic process, discussions on flood damage and water resource problems, combining geographical hydrological conceptual models, or the discussion on old hydraulic facility functions, combining historical document analyses, etc.

Guest Editors

Prof. Dr. Tadaharu Ishikawa
Tokyo Institute of Technology, Tokyo, Japan

Prof. Dr. Katsuhide Yokoyama
Department of Civil and Environmental Engineering, Tokyo Metropolitan University, Tokyo, Japan

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Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

mdpi.com/journal/water

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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

Dr. Jean-Luc PROBST
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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