

Special Issue

Innovations in Integrated Surface and Groundwater Model Development and Socio-Environmental Applications

Message from the Guest Editor

Over the last decade, the concept of integrated hydrological modeling where surface and groundwater systems are simulated as one system has become accepted as a good modeling practice. Another important integrative element that has hitherto been neglected is that of socio-hydrological systems analysis that takes account of social processes, with goals, rules, norms, and practices that are adapting to a changing world and that are often drivers of the integrated hydrologic models we seek to enhance.

The broad aim of this Special Issue is to recognize innovative thinking and accomplishment in better integration of surface and groundwater models and the embrace of socio-environmental applications where possible. One major area of interest is water quality which presents challenges for both surface and groundwater modeling given the issues of physical and temporal scaling and for the communities impacted by a given problem as well as identifying and managing model uncertainty while juggling challenging issues of model transparency and stakeholder acceptance. Papers should address how innovative scientific thinking can lead to workable, long-term problem solutions.

Guest Editor

Dr. Nigel W. T. Quinn

1. Berkeley National Laboratory, Berkeley, CA, USA
2. Sierra Nevada Research Institute, University of California Merced, Merced, CA, USA

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

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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

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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