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Groundwater Hydrological Model Simulation

Guest Editor:

Dr. Cristina Di Salvo
Institute of Environmental Geology and Geoengineering, Italian National Research Council, Roma, Italy

Deadline for manuscript submissions:
closed (5 September 2022)

Message from the Guest Editor

Groundwater numerical modeling is an effective approach to simulating and analyzing the groundwater dynamics under varying conditions.

This Special Issue aims to gather new contributions emphasizing different aspects of groundwater modeling, focusing on the latest developments and applications for water resources management, including the use of new computer tools. Case studies involving the use of models by local government agencies are especially welcome. We invite you to submit your latest research works on subjects including, but not limited to, the following:

- Regional groundwater models accounting for watershed modifications
- Coupling surface water/groundwater models
- Use of groundwater models to understand the impact of climate change on water resources
- Groundwater models as tools to ensure the sustainable use of water resources
- Local-scale groundwater models in urban areas
- Open source software and tools to manage groundwater models
- Integration of groundwater model results in GIS systems
- Comparative studies among groundwater models and machine learning techniques
- Machine learning techniques to improve model calibration

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Special Issue

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Editor-in-Chief

Dr. Jean-Luc PROBST
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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.

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Contact Us

Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/water
water@mdpi.com
𝕏@Water_MDPI