Special Issue

Simulations and Projections Applied in Different Water Systems: Hydrological and Hydrogeological Models Selection, Errors, and Uncertainties

Message from the Guest Editors

In recent decades, various numerical and artificial intelligence codes have been adopted to simulate, calibrate, and predict hydrological and hydrogeological systems. Several models may lead to the same or similar results for each water system, and the main problem is selecting the superior model (single model) or using the multiple model discipline between them. The error of the model results and uncertainty of the input data, within and between models, are the main criteria for model evaluation. Different approaches are applied to select a superior model or use multiple models (MMs) to generate optimal results from numerical and artificial intelligence models in different water systems. This Special Issue focuses on these approaches in hydrological and hydrogeological sciences, as follows: estimation of the uncertainty of artificial intelligence and numerical models; efficiency evaluation of artificial intelligence and numerical models; superior model selection; different approaches for aggregate models or generating multiple models (MMs); comparison of advantages and disadvantages of multiple models and superior models.

Guest Editors

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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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