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SWAT Modeling - New Approaches and Perspective

Guest Editors:

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Deadline for manuscript submissions:
closed (10 February 2024)

Message from the Guest Editors

Dear Colleagues,

The soil and water assessment tool (SWAT) model is an eco-hydrological modeling simulation tool that has been applied in various hydrologic and environmental conditions across the globe. The SWAT model is a physically based, semi-distributed, and continuous-time hydrological model. The model was developed to assess and predict the long-term multiscale impacts of land use/cover changes, land management practices, climate variability and change on watershed hydrology, soil dynamics, and fate and transport of non-point source pollutants at the watershed or river basin-scales.

This Special Issue aims to attract high-quality research and review papers related to new and innovative approaches in the development and application of SWAT and SWAT+ models. Potential topics include (but are not limited to) the following: new enhancements and tools for SWAT+; SWAT+ linkages with other models; large-scale applications; groundwater and surface water interactions; carbon and nitrogen cycles; GHG emissions, fate, and transport of pollutants; wetland, potholes, and tile drains; improved accounting of LAI depiction and plant growth; urban landscapes; and others.

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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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