Special Issue

Optimization-Simulation Modeling of Sustainable Water Resource

Message from the Guest Editor

The optimization–simulation modeling approach covers the following areas:

- The planning and management of water resources: through the simulation of various models, the feasibility and sustainability of water resource utilization plans can be assessed.
- The scheduling of water resources: through the establishment of dynamic scheduling models of hydropower plants and reservoirs, optimal control and scheduling can be achieved to ensure the rational use and supply of water resources.
- The management of the water environment: through the construction of water ecosystem and water quality models, simulation analysis, and prediction, a better water environment management plan can be formulated.
- Disaster management: by constructing models of floods, droughts, and geologic hazards, disaster risks can be assessed and response plans can be formulated to reduce the impacts of disasters.

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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

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