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Reservoir Control Operation and Water Resources Management

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Message from the Guest Editors

Efficient reservoir operation techniques are vital for water resources and energy development and utilization. However, uncertainties have always characterized reservoir operations due to the inevitable uncertainty caused by various factors, such as measurement errors, model structure and parameter diversity, and climatic and hydrologic variability, among others.

Successful operations of reservoirs and water resources require a comprehensive understanding of modeling-related uncertainties and the integrative application of artificial intelligence technology to generate sustainable solutions for water, food, and energy systems in a changing environment.

The main themes of this Special Issue include but are not limited to the following: (I) water, food, and energy systems, (II) reservoir control operation, (III) integrated water resources management, (IV) changing environmental evaluation, (V) modeling uncertainties and their effects, (VI) risk assessment and reduction, (VII) artificial intelligence methods, and (VIII) system optimization analysis.



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Special Issue



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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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