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Adaptive Catchment Management and Reservoir Operation

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Message from the Guest Editors

Dear Colleagues,

River catchments and reservoirs play a central role in water security, food supply, flood risk management, hydropower generation and ecosystem services; however, they are now under increasing pressure from population growth, economic activities and changing climate means and extremes in many parts of the world. To tackle the huge challenges in moving towards adaptive catchment management, there is a need to review the latest developments in cutting-edge knowledge, novel methodologies, innovative technologies and case studies that are relative to catchment management and reservoir operation.

In this Special Issue, we invite researchers and practitioners to present the advances in adaptive river catchment management and reservoir operation in the face of uncertainty. The topics include, but are not limited to, innovative management frameworks, river catchment modelling, inflow forecasting, climate change impact, multi-objective reservoir operation, water-energy-ecosystem nexus, risk and resilience analysis, intervention strategies, new technologies, decision support tools, policy analysis and case studies.



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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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