

Special Issue

Integrated River Basin Management and Sustainable Water Resources Management Using Innovative Approaches

Message from the Guest Editor

Integrated river basin and sustainable water resource management are very important. We must investigate river basin management for flood reduction. In addition to studies on sustainable water resources management techniques, studies that predict the risk of water system using innovative approaches such as artificial intelligence (AI) are also required. From this point of view, using various methods, such as deep learning and meta-heuristic optimization algorithms, may increase the sustainability of river basins and water resources.

This Special Issue aims to collect papers focused on new research results regarding 'Integrated River Basin Management and Sustainable Water Resources Management Using Innovative Approaches'. This Special Issue seeks contributions spanning a broad range of topics related, but not limited to, the following:

- Integrated river basin management;
- Flood forecasting using deep learning techniques;
- Simulations/experiments on water resources management;
- Assessments of water resources management;
- Flood routing using meta-heuristic optimization algorithms.

I look forward to receiving your contributions.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2025)



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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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