Special Issue

Geographic Information Systems (GIS) and Water Resources Engineering toward Environmental Sustainability

Message from the Guest Editors

Essentially, water resources sustain the functionality of ecosystems, which is particularly vital for the human-dominated ecosystem that faces the challenges of natural hazards (e.g., flooding and drought) and artificial results (e.g., water pollution, waterlogging). This Special Issue welcomes insightful manuscripts introducing novel theories and practical approaches for reconciling the conflict between operating water resource engineering projects and achieving environmental sustainability across a multiple scales. Further, looking beyond the narrow scope of water supply/distribution and drainage systems, the environmental consequences of water resource engineering systems, such as soil erosion, water stress, changes in surface heat flux and the urban heat island should be emphasized. We hope that this Special Issue will serve as the platform for addressing the emerging issues and latest advances in this research domain and discussing the potential of new theories/methods for effective problem solving.

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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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