

## Special Issue

# Gis-Based Hydrological Modelling for Sustainable Water Resources Management

### Message from the Guest Editors

To comprehend, predict, and manage water resources, hydrologic and water resource models have been created all around the world. Therefore, the aim of this Special Issue is to promote advances in hydrologic and water resources modeling based on cutting-edge GIS and RS technologies. This Special Issue of Sustainability titled “GIS-Based Hydrological Modelling for Sustainable Water Resources Management” calls for original research papers that develop or apply GIS-based hydrological models useful for water resources sustainability assessment. Open challenges in water resources management that could be addressed with GIS-based tools include fully distributed and semi-distributed hydrological modelling, machine/deep learning applications in GIS-based modeling, modelling the impacts of land use change, climate change vulnerability assessment, remotely sensed data assimilation, decision-making tools, etc. We seek contributions that address these and other challenges, with a focus on sustainability assessment from local, regional or global perspectives.

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### Guest Editors

Prof. Dr. Mohamed Ouessar

Prof. Dr. Luis Garrote

Dr. Vinay Nangia

Dr. Malak Henchiri

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### Deadline for manuscript submissions

closed (28 October 2023)



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# About the Journal

## 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.

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## Editor-in-Chief

Prof. Dr. Steve W. Lyon

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