





an Open Access Journal by MDPI

Gis-Based Hydrological Modelling for Sustainable Water Resources Management

Guest Editors:

Message from the Guest Editors

Prof. Dr. Mohamed Ouessar

Dear Colleagues,

Prof. Dr. Luis Garrote

Dr. Vinay Nangia

Dr. Malak Henchiri

Deadline for manuscript submissions:

closed (28 October 2023)

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.









an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, Canada

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 sustainability related to and sustainable development. Sustainability publishes original research articles, review articles and communications, I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering and applications of sustainability-based measures and activities.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, AGRIS, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (*Geography, Planning and Development*)

Contact Us