

Special Issue

Hydrological Modelling for the Sustainable Management of Water Resources in River Basins

Message from the Guest Editors

Natural disasters from hydrometeorological extremes and water scarcity, as well as human pressures such as intensive agriculture, can affect the quantity and quality of surface and groundwater resources in river basins. This Special Issue of *Hydrology* will showcase the state of the art in the adaptation and use of hydrological models on the catchment or river basin scale in different regions and for various purposes within the wider context of water resources and river basin management. We invite novel modelling articles that propose actions for tackling both natural and human pressures, preserving the environmental status of water bodies, and maintaining or improving the socio-economic status within regions. We hope that new methods/models will help us to celebrate progress in tackling real river basin problems and the possible further issues that require more focused research.

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About the Journal

Message from the Editor-in-Chief

Hydrology is the study of the waters of the Earth. Hydrology has close ties with hydraulics, hydrogeology and the multiple sciences that study the atmosphere, the land surface, the soil and the subsoil, and ranges from complex problems of risk, forecasting and optimization of water resources to interactions with ecological, urban, social and economic systems. The purpose of *Hydrology* is then to provide a journal where research results and real-world problems can be presented and discussed in order to bridge the traditional gaps between the academic world and the professionals and decision makers. Therefore, *Hydrology*, invites authors to submit their original theoretical, field, experimental, and numerical studies on hydrology with strong emphasis on multidisciplinary approaches and interdisciplinary topics, which cross the typical boundaries of our science.

Editor-in-Chief

Prof. Dr. Ezio Todini

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JCR - Q2 (Water Resources) / CiteScore - Q1
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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.9 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).