Special Issue

Current Status and Future Prospects of Hydromorphological Assessment of Rivers

Message from the Guest Editors

Hydromorphological alteration is considered one of the most serious causes of ecological degradation of riverine ecosystems. Changes in hydromorphology are usually linked with the destruction of floodplains and riparian areas, hydrological alteration, disruption of the longitudinal continuity and lateral connectivity with the floodplain, and changes in the substrate of the banks and the channel bed. Not surprisingly, numerous hydromorphological assessment methods have been developed, with most of them focusing on the dynamics of hydrology, geomorphology, and riparian zones, in order to evaluate the severity and extent of hydromorphological degradation. This Special Issue welcomes innovative research studies that focus on hydromophological changes and their impacts on the functioning and structure of riverine ecosystems. Submitted articles may deal with several relevant topics such as:

- New tools for monitoring and quantifying the hydromorphological changes;
- Ecological responses to hydromorphological alteration;
- Climate change impacts on hydromorphological features of rivers;
- Hydromorphological restoration.

Guest Editors

Dr. Elias Dimitriou
Dr. Kostas Stefanidis
Dr. George Papaioannou

Deadline for manuscript submissions

closed (20 January 2024)

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Hydrology
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
hydrology@mdpi.com

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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
Italian Hydrological Society, Piazza di Porta San Donato 1, 40126 Bologna, Italy

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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).