



Current Status and Future Prospects of Hydromorphological Assessment of Rivers

Guest Editors:

Dr. Elias Dimitriou

Institute of Marine Biological Resources and Inland Waters, Hellenic Centre for Marine Research, 19013 Anavyssos, Greece

Dr. Kostas Stefanidis

Hellenic Centre for Marine Research, Institute of Marine Biological Resources and Inland Waters, 46.7 km of Athens-Sounio Ave., Anavyssos, 19013 Attiki, Greece

Dr. George Papaioannou

Department of Forestry and Management of the Environment and Natural Resources, Democritus University of Thrace, Ath Pantazidou 193, 68200 Orestiada, Greece

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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 hydromorphological 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.



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Editor-in-Chief

Prof. Dr. Ezio Todini

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

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.

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Hydrology Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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