

Special Issue

Catchments Hydrology and Sediment Dynamics: Concepts, Measuring and Modelling

Message from the Guest Editor

The hydrographic catchments is a suitable framework for analysis, but the basin evolution results from the spatial and temporal composition of a variety of processes taking place at highly variable scales. Therefore, models to be run at the scale of a river catchments require physically-based parameterization that can be only obtained from studies of processes at a local scale, as well as of the interconnections between these processes. Moreover, we are not talking just about water, because sediment is a major player of which the importance is also acknowledged by European Directives. This Special Issue will join contributions that address the common topic of catchments hydrology and sediment transport from a variety of approaches, including field and laboratory experiments, as well as local and distributed numerical modelling. We welcome different kinds of manuscripts, including research papers and technical notes. As a further 'bridge across scales', both reviews and vision papers from experienced scholars and research contributions from early-stage researchers are desired.

Guest Editor

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Deadline for manuscript submissions

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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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