

Special Issue

Application of Geophysical Methods for Hydrogeology

Message from the Guest Editors

The characterization of the subsoil and its hydraulic properties is essential for groundwater and surface water management, but is often difficult to evaluate from traditional borehole drilling, water well and piezometer pumping tests, and soil sampling techniques. Integration of geophysical data with direct hydrogeological measurements is a challenging issue that could help to characterize, monitor and investigate hydrological parameters and processes in the shallow subsurface, at a variety of resolutions and over many spatial scales, in a minimally invasive manner.

This Special Issue of *Water* aims to gather research on advances and obstacles associated with using geophysical methods, with a special focus on case studies demonstrating their potential to improve our understanding of subsurface hydrogeological parameters and processes. Papers on novel data acquisition procedures and innovative hydrogeological mapping, hydrological parameter estimation and monitoring of hydrological processes are welcome. The integration of geophysical and hydrogeological measurements and petrographic relationships will also be appreciated.

Guest Editors

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Prof. Dr. Albert Casas Ponsati

Deadline for manuscript submissions

closed (25 June 2024)



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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST

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