Special Issue

Application of Geophysical Techniques in Hydrogeological Research

Message from the Guest Editors

Groundwater resources are under increasing pressure from climate change, land-use change, and intensified exploitation, making reliable and efficient hydrogeological investigation more critical than ever. In this context, geophysical techniques have become indispensable tools, providing non-invasive, cost-effective, and spatially continuous information that complements hydrogeological observations and reduces uncertainty in subsurface characterization. This Special Issue aims to bring together high-quality contributions demonstrating the application of geophysical techniques to groundwater exploration, aquifer characterization, and groundwater monitoring. Particular emphasis is placed on studies presenting methodological developments and innovative workflows that advance hydrogeological investigation and interpretation. Submissions focusing on the joint inversion of hydrogeological and geophysical data are given priority, as these approaches are essential for reducing uncertainty and improving groundwater model reliability.

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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

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