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Applied Geophysics in Hydrogeological Practice

Guest Editor:

Dr. Alexis Maineult
CNRS-Sorbonne Université

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Message from the Guest Editor

In the context of the increasing scarcity of water resources, the detailed characterization of aquifers, in terms of structure, but also in terms of dynamics of the flows that take place inside them, is a crucial issue. This SI aims to bring together the works on the application of surface geophysical methods for a hydrogeological purpose—for instance, for the fine characterization of the structure of aquifers and hydraulic flows inside them, or for the localization and delineation of pollutant plumes. Without being exhaustive, the concerned methods are electromagnetics (e.g., time–domain electromagnetics, radar), active electrical methods (e.g., electrical resistivity tomography and induced polarization) or passive electrical methods (spontaneous potential), nuclear magnetic resonance; or even microgravimetry. Contributions focusing on the petrophysical laws (experimental measurements as well as theoretical models) are also welcome.

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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.

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