

Special Issue

Advances in Geostatistical and Stochastic Modeling for Groundwater Resources Assessment and Management

Message from the Guest Editors

We invite you to contribute to this upcoming Special Issue entitled “Advances in Geostatistical and Stochastic Modeling for Groundwater Resources Assessment and Management”. Groundwater resources play a critical role in water supply and ecosystem sustainability across regions, and their importance is further amplified in the face of climate change, which brings heightened variability in precipitation patterns. This Special Issue will showcase recent advances in geostatistical and stochastic methodologies, approaches, and formulations that enhance the accuracy and reliability of groundwater resource evaluation. Topics of interest include, but are not limited to, the following:

- Probabilistic and Monte Carlo-based approaches for groundwater flow;
- Geostatistical methods for characterizing aquifer heterogeneity;
- Geostatistical and stochastic approaches for groundwater contamination risk assessment;
- Surrogate modeling for computational efficiency;

We look forward to receiving contributions that further our understanding of these techniques and their role in the sustainable management of groundwater resources.

Guest Editors

Dr. Massimiliano Schiavo

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Deadline for manuscript submissions

30 November 2025



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About the Journal

Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

Editor-in-Chief

Prof. Dr. John C. Eichelberger

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