



## Hydrogeophysical Monitoring of Water and Solutes in Agricultural Soils

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Deadline for manuscript  
submissions:

**closed (25 August 2025)**

### Message from the Guest Editor

Hydrogeophysics has advanced significantly because of substantial investigations in stochastic subsurface hydrology, which have served as an impetus for the developments in on-site investigative methodologies. The effectiveness of these unique hydrogeophysical approaches, which focus on identifying heterogeneity and fluid behavior within shallow subsurfaces, is rooted in the refinement of efficient data inversion techniques. Notably, these methods include electrical resistivity tomography, ground-penetrating radar, nuclear magnetic resonance and specific electromagnetic approaches.

This call for papers aims to promote innovative approaches in hydrogeophysical characterization, utilizing advanced geophysical tools, data fusion methodologies and machine learning for data interpretation. It emphasizes integrating hydrological models to understand soil variations, infiltration dynamics, root-water uptake and their impact on crop productivity. We encourage diverse submissions, from experimental studies to theoretical models, real-world case studies and comprehensive reviews charting future research directions.





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## Message from the Editor-in-Chief

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