



Integrating Remote Sensing and Geospatial Big Data for Soil Moisture Estimation

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Message from the Guest Editors

Soil Moisture (SM) is a vital element in the hydrological cycle and land–atmosphere interactions. Quantification of SM and its spatiotemporal variability is valuable for understanding water availability in agriculture, ecosystem states, river basin hydrology, and water resources management, with different requirements of scales and spatial or temporal resolution. Thus, the precise quantification of SM and the spatial–temporal variability at different scales are always receiving considerable attention.

Contributions to remote sensing and geospatial big data of soil moisture are especially welcome, but contributions from other natural sciences at the forefront of soil moisture estimation are also highly welcome. Machine learning and imagery/data processing in contributions are also desired:

- Remote sensing of soil moisture (satellites or UAS);
- Soil moisture data fusion and assimilation;
- Machine learning algorithms assessment;
- Construction of soil moisture database;
- Gap filling of soil moisture data;
- Novel tools for geospatial data processing (GEE et al.).



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