Special Issue

Integrating Remote Sensing and Geospatial Big Data for Soil Moisture Estimation

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.).

Guest Editors

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Deadline for manuscript submissions

closed (15 December 2023)

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Message from the Editor-in-Chief

Land is the only open access journal covering all aspects of land science, and it is a pioneering platform for publishing on land system science. Our editorial board is comprised of eminent scholars. We publish high quality research on societally relevant, emerging and innovative topics and results in land system research. It is now one of the top land journals with a significant impact factor, and has a goal to become the best journal in land in the coming years. I strongly recommend Land for your best research publications for a fast dissemination of your research.

Editor-in-Chief

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