Special Issue

Remote Sensing of Regional Soil Moisture

Message from the Guest Editors

Land surface soil moisture conditions play a key role in controlling the water and energy cycle at the land surface. Therefore, soil moisture monitoring is important to obtain reliable information about the spatial distribution and temporal dynamics of land surface water content. The demand on soil moisture observations to run hydrological simulation models and assess regional water scarcity is increasing at the regional management scale. Novel developments on in-situ sensor technologies and terrestrial monitoring networks provide an essential point-based component for satellite based product validation. In turn, this may be fundamental for innovations of satellite remote sensing based soil moisture retrieval approaches. **Key Topics**

- Advances in remote sensing techniques to provide (time series of) spatially distributed soil moisture data
- Recently available and near future satellite data products
- Airborne cal/val experiments to present future potential innovations
- Case studies at regional scale
- Approaches for remote sensing/ in-situ observation integration
- Studies using data assimilation e.g. into hydrological models, plant growth models or discussing concepts

Guest Editors

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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