



CALL FOR PAPERS

IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing

Special Issue on

“Advances in surface soil moisture mapping with remote sensing approaches”

With the significant development in remote sensing technologies in the last decade, soil moisture mapping is now feasible from regional to global scales. Based on direct and/or indirect connection with the signals observed from different remote sensing sensors, a variety of soil moisture retrieval approaches have been proposed focused on the use of specific bands across the electromagnetic spectrum (microwave C/X/L-bands, visible, infra-red, multispectral and hyperspectral, etc.) with active or passive sensors, and on the synergistic use of multi-sensor data. Each approach aims at improving the quality of soil moisture estimates at different aspects, such as estimation accuracy, spatial resolution and coverage, or temporal frequency. The aim of this Special Issue is to present advances in theoretical and practical approaches for soil moisture mapping at local-to-global scales, in their assessment and validation across scales, and on operational applications that show their value.

There will be our priorities for contributions on soil moisture mapping with multi-source remote sensing data, validation and applications. The topics of interest include, but are not limited to, the following:

- Advances in remote sensing approaches for soil moisture estimation
- Algorithms development for spatial downscaling/upscaling of remotely sensed soil moisture
- Generation of long-term soil moisture records at high spatio-temporal coverage and of derived products
- Validation of satellite soil moisture estimates with remote sensing/in-situ observation integration and inter-comparison to models
- Applications showing the value of using remotely sensed soil moisture data, e.g., coupling with surface models, hydrological process monitoring, or natural disasters.

Schedule

July 1, 2020 Submission system opening
December 31, 2020 Submission system closing

Format

All submissions will be peer reviewed according to the IEEE Geoscience and Remote Sensing Society guidelines. Submitted articles should not have been published or be under review elsewhere. Submit your manuscript on <http://mc.manuscriptcentral.com/jstars>, using the Manuscript Central interface and select the “Surface Soil Moisture Mapping” special issue manuscript type. Prospective authors should consult the site <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8855039> for guidelines and information on paper submission. All submissions must be formatted using the IEEE standard format (double column, single spaced). Please visit http://www.ieee.org/publications_standards/publications/authors/author_templates.html to download a template for transactions. Please note that as of Jan. 1, 2020, IEEE J-STARS has been a fully open-access journal charging a flat publication fee \$1,250 per paper.

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