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IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing
Special Issue on
“NASA Soil Moisture Active Passive Mission Observations and Results”

The National Aeronautics and Space Administration’s (NASA) Soil Moisture Active Passive (SMAP) mission, the first Earth Science Decadal Survey mission, was launched January 31, 2015 to provide high-resolution, frequent-revisit global mapping of soil moisture and freeze/thaw state. The primary science goal of SMAP is to provide new perspectives on how the three fundamental cycles of the Earth system, the water, energy and carbon cycles, are linked together over land. Soil moisture is the key variable that links the three cycles and makes their covariations synchronous in time. The SMAP measurements now span over five years. This JSTARS special issue will gather highlights of measurements, and science and applications results.

The broad topics include (but are not limited to):

- Radiometer calibration,
- Radio-Frequency Interference patterns,
- Active-passive high-resolution algorithms and products,
- Soil moisture assessments with *in situ* measurements,
- Applications to weather forecasts, inundation monitoring, crop yield prediction, wildfire potential,
- Microwave vegetation optical depth retrievals,
- Ocean and sea ice algorithms and products as well as their applications,
- Synergistic use with data from other missions.

Schedule

December 1, 2020 Submission system opening
May 30, 2021 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 “**NASA Soil Moisture Active Passive Mission Observations and Results**” special issue manuscript type. Prospective authors should consult the site <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9082768> 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 become a fully open-access journal charging a flat publication fee \$1,250 per paper.

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