



## Advances in Remotely Sensed Soil Moisture Products

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### Message from the Guest Editor

Soil moisture has an important role in the global water and energy balance, affecting hydrological and atmospheric cycles, drought conditions, irrigation management, and so many other processes. Over the last decade, the development of remote sensing technologies has provided the possibility that this environmental variable is more accessible than before. Nowadays, remotely sensed satellite products have become the only feasible way to reach an unprecedented amount of soil moisture data on both spatial and temporal scales. This Special Issue aims to publish new ideas and findings in remotely sensed soil moisture products, the validation of different satellite soil moisture datasets and their use for scientific research or operational applications. Potential topics include but are not limited to the following:

- Validation and evaluation of remotely sensed soil moisture products
- Applications of remotely sensed soil moisture data including hydrologic and land surface modeling, data assimilation, Deep learning and Machine Learning, agricultural drought monitoring, flood forecasting, and irrigation management
- Downscaling and fusion of remotely sensed soil moisture data





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## Message from the Editor-in-Chief

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