



## Soil Moisture Retrieval using Radar Remote Sensing Sensors

Guest Editors:

**Dr. Mehrez Zribi**

CESBIO, University of Toulouse,  
CNRS/UT3/IRD/CNES/INRAE,  
31400 Toulouse, France

**Dr. Nicolas Baghdadi**

French National Institute for  
Agriculture, Food, and  
Environment (INRAE), Maison de  
la Télédétection—UMR TETIS,  
500 rue JF Breton, CEDEX 05,  
34093 Montpellier, France

**Dr. Clement Albergel**

ESA - European Space Agency,  
Climate Office, Oxfordshire, UK

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### Message from the Guest Editors

Soil moisture plays an essential role in the understanding of the continental water cycle. It is a key parameter in the separation of precipitation water between infiltration, runoff and evapotranspiration processes and in water management. In this context, active microwave remote sensing has shown a high potential to retrieve surface soil moisture through the use of SAR and other radar sensors (scatterometer, altimeter, GNSS-R, etc.). In the last few years, with the arrival of new sensors with important capacities in terms of spatial and temporal resolutions, it becomes possible to propose operational soil moisture products and to assimilate this parameter in water process modeling. This Special Issue has as principal objective to present the principal algorithms and methodologies around the use of active sensors (Sentinel1, Alos-2, TERRASAR-X, RADARSAT, ASCAT, CYGNSS, etc.) in the estimation and use of soil moisture.





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Dr., Flagstaff, AZ 86001, USA

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*Remote Sensing* Editorial Office  
MDPI, Grosspeteranlage 5  
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