GNSS-Reflectometry and Remote Sensing of Soil Moisture

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Message from the Guest Editors

In many different scientific fields, the great significance of soil moisture content (SMC) is pointed out as an environmental factor for land surface dynamics monitoring, as regards such areas as evapotranspiration, droughts, floods, etc., while it simultaneously regulates energy and water exchange between the land and the atmosphere and other hydrological processes. Moreover, since SMC is coupled with other environmental variables, it is commonly used as the input parameter for many climate models. In agriculture, SMC is a crucial indicator of plant growth and crop yield.

In the last few decades, near-Earth satellites have provided an unprecedented opportunity to sense SMC from space using a wide diversity of techniques and sensors. An emerging and challenging technology based on the opportunity signal, GNSS Reflectometry (GNSS-R), has been exploited for SMC sensing.

This Special Issue aims to present the most recent advances, algorithms and methodologies of GNSS-Reflectometry and Remote Sensing for Soil Moisture Content retrieval.

Special Issue

Editor-in-Chief

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Message from the Editor-in-Chief

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