Special Issue

Soil Moisture Monitoring: Measurement and Simulation

Message from the Guest Editors

Soil moisture is a key parameter when it comes to understanding the processes related to the water cycle on continental surfaces. Over the past several decades, great progress has been made in soil moisture monitoring. These include emerging in situ and proximal sensing techniques, dedicated soil moisture remote sensing missions, as well as soil moisture monitoring networks. We invite you to publish works that present the use of any method for assessment of soil moisture. Works devoted to the broadly understood modelling and mapping of soil moisture are also welcome. The topics of the Special Issue include, but are not limited to, the following:

- Review on soil moisture monitoring;
- Introduction to field, aircraft experiments, or satellite missions for soil moisture;
- Development, calibration, or validation of the theoretical or semi-empirical models used for soil moisture monitoring;
- Application of soil moisture in data assimilation, agriculture, ecology, hydrology, climate change, and other fields;
- Temporal approach to soil moisture monitoring;
- New soil moisture monitoring technology methods, such as machine and deep learning

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2022)

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About the Journal

Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

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