Special Issue

Model-Based Monitoring of Soil Moisture Dynamics in Agriculture

Message from the Guest Editor

Tremendous progress has been made in the airborne and spaceborne remote sensing of soil moisture, which is effective, efficient, and less expensive. However, at the current stage of development, it is very difficult to continuously monitor soil moisture from air or space, and remote sensing techniques are only effective in measuring soil moisture in the top thin soil layer (2–5 cm). Numerical simulation is an important approach for monitoring and understating soil moisture dynamics in agricultural fields, and it allows all limitations associated with in-suit, airborne, or spaceborne soil moisture monitoring to be overcome. Therefore, to report the progress made in the model-based monitoring of soil moisture dynamics in agriculture, this Special Issue solicits papers on the latest scientific findings and advances in numerical simulations of soil moisture in agriculture fields at different scales (e.g., point, plot, field, catchment, and watershed) and in the different growth stages of agricultural plants.

Guest Editor

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