

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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Deadline for manuscript submissions

closed (25 April 2024)



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About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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