Special Issue

Sustainable and AI-Driven Approaches to Managing the Soil-Water Complex in Agriculture

Message from the Guest Editors

The main goal of this Special Issue is to collect papers (original research articles and review papers) that provide insights into the following areas: water saving in agriculture; efficient land use planning; agricultural hydraulics; smart irrigation planning; improved yield using intelligent techniques; and the application of machine learning and artificial intelligence techniques in the soil–water complex.

This Special Issue will welcome manuscripts that link the following themes:

- Agricultural hydraulics; comparison with urban soils.
- Irrigation; smart irrigation systems.
- Water saving in agriculture using smart irrigation scheduling, mulching, precision agriculture, and smart sensors.
- Effects of oil pollution on soil structure, water holding capacity, leaching, and runoff; the impact of soil remediation on agricultural water use and sustainable irrigation.
- Remote sensing, real-time decision making, predictive models for drift, and water saving through AI and drift control.
- Land uses, land cover, soil degradation and improvement, soil health, efficient land use planning, crop rotation, and intercropping for reducing stress on water resources.

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About the Journal

Message from the Editor-in-Chief

Land is the only open access journal covering all aspects of land science, and it is a pioneering platform for publishing on land system science. Our editorial board is comprised of eminent scholars. We publish high quality research on societally relevant, emerging and innovative topics and results in land system research. It is now one of the top land journals with a significant Impact Factor, and has a goal to become the best journal in land in the coming years.

Editor-in-Chief

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