

Special Issue

Leveraging Big Data and Emerging Technologies for Agricultural Land Monitoring and Management

Message from the Guest Editors

The goal of this Special Issue is to collect papers (original research articles and review papers) focusing on recent advances in the application of the latest technologies and data for monitoring and managing agricultural land, as well as the opportunities presented by these advancements and the challenges encountered in their implementation. This Special Issue will welcome manuscripts that link the following themes:

- Agricultural land (including cropland and pastureland) change mapping and monitoring;
- Crop type identification and mapping;
- Crop yield/production estimation and prediction;
- Crop growth stage identification (planting/harvested/silking date, etc.);
- Crop health assessment;
- Pastureland degradation and management;
- Pastureland production;
- Remote sensing of agricultural land management practices;
- Impacts of agricultural land management on production;
- Agricultural land use intensity and sustainability;
- Climate-smart agriculture;
- Advanced technology: 3S, GeoAI, machine learning, data fusion techniques, airborne- or UAV- based hyperspectral images, street-view technology, etc.

Guest Editors

Dr. Fang Liu

Dr. Erqi Xu

Dr. Xiaocui Wu

Deadline for manuscript submissions

closed (31 March 2026)



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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

Prof. Dr. Christine Fürst
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