Special Issue

AI-Enabled Decision Support Systems for Sustainable Agricultural Land Use

Message from the Guest Editors

We invite interdisciplinary contributions that advance the theory, development, and application of AI-based tools and frameworks to support land use planning and agricultural sustainability. Submissions may address, but are not limited to, the integration of AI with remote sensing, Internet of Things (IoT), big data analytics, machine learning models, and spatial decision-making systems. Key topics of interest include (but are not restricted to):

- AI methodologies for crop suitability analysis and land use planning.
- Machine learning models for soil quality, climate impact, and yield prediction.
- Spatial decision support systems (SDSS) integrating GIS and AI.
- Use of deep learning for satellite or UAVs image classification and land cover mapping.
- AI-enabled early warning systems for land degradation, drought, and pest outbreaks.
- IoT-based data fusion and real-time decision making in precision agriculture.
- Multi-objective optimization models balancing productivity and sustainability.
- Human–AI collaboration and participatory approaches in land governance.
- Ethical, social, and policy implications of AI in agricultural land management.

Guest Editors

Dr. Jaume Segura-Garcia

Dr. Miguel García-Pineda

Dr. Sergi Maicas

Dr. Yiyun Chen

Deadline for manuscript submissions

28 February 2026

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. I strongly recommend Land for your best research publications for a fast dissemination of your research.

Editor-in-Chief

Prof. Dr. Christine Fürst
Department Sustainable Landscape Development, Institute for Geosciences and Geography, University of Halle, Halle, Germany

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