

# Special Issue

## Landscape-Scale Modeling of Agricultural Land Use

### Message from the Guest Editors

Understanding agricultural land-use change at a landscape scale is critical for addressing pressing global challenges, including food security, biodiversity conservation, and climate change adaptation. This Special Issue aims to collate cutting-edge research on spatially explicit models that simulate the patterns, processes, and outcomes of agricultural land-use change. We seek contributions that advance the methodological frontier and provide actionable insights for sustainable landscape management. We encourage submissions leveraging innovative approaches, such as integrating AI and machine learning with process-based models, coupling ecological and socio-economic drivers, and incorporating remote sensing and big data to achieve high-precision, predictive simulations at large scales. We welcome original research, reviews, and case studies focused on the following: development of novel modeling frameworks; analyses of land-use impacts on ecosystem services; scenario exploration for sustainable intensification; and studies that effectively bridge the science-policy gap for informed decision-making.

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### Guest Editors

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### Deadline for manuscript submissions

30 April 2026



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*Agronomy* draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

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### Editor-in-Chief

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