

Special Issue

Data-Driven Geospatial Methods for Land Use and Land Cover Change Monitoring

Message from the Guest Editors

Informed agricultural planning and sustainable land management require land-use and land-cover monitoring. Accelerated climate change, urban expansion, and agricultural transformation make accurate, timely, and scalable LULC data much needed. Remote sensing and Geographic Information Systems (GISs) are used to monitor spatial and temporal patterns of land use and land cover. Machine learning and deep learning techniques automate and refine land-use and land-cover mapping using remote sensing imagery. Adaptability to complex environmental conditions and the integration of heterogeneous data sources, including satellite imagery and field observations, make these techniques promising. In addition, these techniques enable resilient farming practices, precision agriculture, and informed management and policy development through robust, data-driven insights. The goal of this Special Issue is to collect papers (original research articles and review papers) to give insights into the application of machine learning integrated with geospatial techniques for land use and land cover mapping and change detection.

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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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