Special Issue

Recent Progress in Land Cover Mapping Using Remote Sensing Data

Message from the Guest Editors

Land cover mapping with remote sensing data has been an important research topic. Currently, researchers easily have access to many different data choices and combinations: high spatial resolution images (e.g., Planet imagery), multi-modal data (e.g., optical, hypespectral data, SAR, airborne LiDAR), and time series data (e.g., Landsat Archive, Sentinel Archive). However, these varied data pose many challenges for land cover mapping techniques, such as efficiently defining large quantities of training samples and jointly exploring multi-modal data for more accurate land cover maps. Recently, the rapid development in deep learning has provided new options to tackle these challenges: from data augmentation to different variants of deep models, and recently even popular foundation models. In this Special Issue, we invite submissions related to the recent progress in land cover mapping with remote sensing data, with topics including but not limited to: Training data augmentation; Multi-modal data classification; Time series data analysis; Transfer learning; Self-supervised learning; Remote sensing foundation models; Accuracy assessment of land cover products.

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

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