Special Issue

Advances and Challenges in Ultra-High-Resolution Land Cover and Land Use Classification

Message from the Guest Editors

Dear colleagues, Land cover and land use (LCLU) classification has witnessed significant advancements in recent decades, propelled by the widespread availability of high-resolution optical imagery and from satellite and unmanned aerial vehicles (UAVs). The utilization of specific classification algorithms, diverse processing platforms, and increasingly powerful computational resources has further enhanced the capabilities of LCLU classification. Integrating very-high-resolution imagery has notably transformed LCLU analysis, presenting new opportunities and challenges. This Special Issue of Remote Sensing aims to compile contributions focused on generating land cover and land use maps using ultra-high-resolution and very-high-resolution optical data derived from both UAVs and satellites, along with their integration, including model transfer and model upscaling/downscaling. Submissions related to diverse geographic areas, specific semantic classifications, methodologies for minimizing errors associated with UHR and VHR resolution, and applications in complex scenarios are encouraged.

Guest Editors

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Deadline for manuscript submissions

closed (15 June 2025)

About the Journal

Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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