

Special Issue

Remote-Sensing Insights for Sustainable Urban Ecosystems

Message from the Guest Editor

Accelerated global urbanization and intensifying climate change have imposed unprecedented pressures on the structure, function and service capacity of urban ecosystems, manifested as urban heat island intensification, biodiversity decline, ecological degradation and resource allocation imbalance. As a state-of-the-art Earth observation tool, remote sensing enables the large-scale, spatiotemporally continuous and high-resolution dynamic monitoring of urban ecological environments, providing critical technical support for quantifying urban ecosystem patterns, assessing ecological quality and supporting science-based urban sustainability governance. This field is of profound scientific significance and practical value for advancing low-carbon, resilient and eco-friendly urban development. Topics including, but not limited to:

- urban ecological environment monitoring and assessment,
- multi-source remote sensing for urban biodiversity and ecosystem services,
- remote-sensing-based urban ecological risk early warning,
- AI-driven remote sensing for sustainable urban planning,
- high-resolution satellite, aerial and UAV data in urban analysis,
- time series analysis and urban change detection.

Guest Editor

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Message from the Editorial Board

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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