

Special Issue

Land Use and Key Drivers of Urban Heat Patterns: A Remote Sensing Approach

Message from the Guest Editors

This Special Issue welcomes interdisciplinary contributions at the intersection of land sciences, remote sensing, urban morphology, and environmental modeling, with a strong emphasis on the analysis of land use changes and their implications for sustainable urban development and land management. We welcome manuscripts addressing, but not limited to, the following topics:

- Changes in land use and land cover in urban areas and their impact on land surface temperature and the intensity of the urban heat island effect (SUHI);
- Multi-temporal analysis of urban land transformation using datasets such as CORINE Land Cover, Urban Atlas, and global land cover products;
- Role of urban morphology, vegetation configuration, and surface materials as soil-related factors determining urban thermal patterns;
- Integration of GIS, remote sensing, and spatial modeling for land-based assessment of urban heat exposure;
- Machine learning and data-driven approaches for analyzing land-climate interactions in urban systems;
- Comparative case studies linking land use trajectories and thermal responses in different cities and regions.

We look forward to receiving your original research articles and reviews.

Guest Editors

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About the Journal

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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