Special Issue

Monitoring Urban Environment and Temperature Change Using Remote Sensing

Message from the Guest Editors

Remote sensing has been used in a wide range of Earth science research and applications. Satellite observations have routinely provide data that can be used to monitor and measure surface land cover and temperature changes. With recent advances in remote sensing technologies, multiple remote sensing sensors such as VIIRS, MODIS, Landsat, ECOSTRESS, and others on geostationary satellites continue to provide optical and TIR data to the science community. Moreover, advancement in machine learning and other novel modelling algorithms have allowed for greater ability to link satellite-derived data with airborne and terrestrial-based sensors to examine spatial and temporal patterns in urban heat exposure and land cover change. This Special Issue invites manuscripts that focus on using remote sensing data to monitor urban land cover, surface temperature, and their changes. Papers focusing on the utility of these data and other high-resolution images including Sentinel, WorldView, and PlanetScope in assessing the current and historical urban land cover, urban thermal condition, and surface urban heat island change will be most welcome.

Guest Editors

Dr. George Xian

Dr. Peter Ibsen

Prof. Dr. Xiangming Xiao

Deadline for manuscript submissions

28 April 2025

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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.

Editor-in-Chief

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