Special Issue

The Confinement Period and Its Potential Impact on Urban Heat Island and Surface Temperature Using Remote Sensing

Message from the Guest Editor

Aerosols strongly influence climate by affecting the Earth's energy budget. On one hand, aerosols impact cloud properties. On the other hand, aerosols interact with solar radiation by scattering, reflecting and absorbing it. Additionally, chemical atmospheric composition influences the land surface temperature (LST). As an urban climate indicator, surface urban heat island (SUHI) is computed based on the LST and characterized by the temperature difference between that of an urban city and that of the surrounding rural area.

The lockdown effect from the COVID-19 pandemic on both the surface and the canopy UHI is still uncertain and needs to be further studied as different hypotheses can be put forward:

(i) an increase in evapotranspiration;

(ii) a greenhouse effect reduction, which results from the decrease in pollution levels;

(iii) reduced anthropogenic heat fluxes.

The objective of this Special Issue is to publish results related to the evolution of surface and canopy urban heat island in global cities based on observational and/or modelling studies.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2023)



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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 peerreview 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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