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

Guest Editor:

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Deadline for manuscript submissions:
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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.

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Special Issue

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Message from the Editor-in-Chief

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