



Urban Emissions and Air Quality Monitoring and Predictions in Urban Areas Using Remote Sensing

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Deadline for manuscript
submissions:

closed (31 January 2021)

Message from the Guest Editors

Dear Colleagues,

Cities are the cause of 70% of carbon emissions, which is the main greenhouse gas affecting climate change. Carbon dioxide in cities can cause significant harm to social good and will undergo rapid change over the upcoming decades. Robust scientific techniques are needed to capture the magnitude, trends and impacts of carbon in cities. Remote sensing can provide the necessary insights to transform emerging methods and technologies into operational systems for urban carbon. The Special Issue seeks studies on past progress and new developments in satellite remote sensing of urban greenhouse gases, with a focus on CO₂. Tentative themes include, but are not limited to, innovative remote sensing methods for the monitoring, assessment and forecasting of urban carbon dioxide and air quality parameters, urban carbon performance and prediction models, and the integrative use of remote sensing, urban data streams and numerical models. This special issue will promote diverse research on remote sensing for global urban air quality.

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Guest Editors





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