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Urban Micrometeorology and Air Pollution

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Deadline for manuscript submissions:
closed (30 April 2023)

Message from the Guest Editors

Dear Colleagues,

In the last few decades, several studies have been carried out addressing problems related to air quality. Advancements in computational techniques and data acquisition systems have enabled a better understanding of pollutant dispersion processes and the relationship of these phenomena with several micrometeorological variables. However, due to the high complexity of the atmospheric boundary layer behavior and the variables that influence its dynamics, synergistic surface studies, remote sensing and advanced computational techniques have become increasingly essential to a better understanding of the dynamics of atmospheric pollutants, especially in large urban centers.

In this special issue, we welcome papers on topics including, but not limited to, the following:

- Remote sensing systems for the analysis of variables that can influence air quality;
- Models that use remote sensing or surface data as input;
- Models that perform air quality index predictions;
- Correlation between surface data, remote sensing data and air quality;
- Environmental feature extraction for Particulate Matter (PM) expansion modeling;
- Signal processing for pollutant detection.

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Special Issue

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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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