Special Issue

Applications of Remote Sensing for Studying Urban Air Quality

Message from the Guest Editors

Air quality is a key for human health protection. Urban areas include a huge number of humans that can be affected by air pollution. High-resolution air quality data are necessary in order to introduce measures for the reduction of air pollution sources. Current ground-based air quality monitoring networks are cost intensive, and consequently the required data availability cannot be provided. Since remote sensing methods have long been applied from the ground, flying platforms and satellites are required to close this gap. The potential and limitations of remote sensing methods are well known, but it is not clear if these data are used in all possible tasks. This Special Issue aims to present more detailed information about the current and planned applications of remote sensing to detect urban air quality in order to support the improvement of urban air quality.

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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!

Editor-in-Chief

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