Special Issue

Spatio-Temporal Analysis of Air Pollution

Message from the Guest Editors

Air pollution is one of the top serious environmental issues on our planet. Effective control of air pollution has become the top priority of governments at all levels. Spatial and temporal variability of air pollution are key parameters in accurate assessment of health risks associated with air-pollutant exposure. A well understanding of spatio-temporal characteristics of air pollution is also required in the development of integrated interventions to prevent and control air pollution.

The purpose of this special issue is to provides a home for high quality work including but not limited to big data assimilation, mining and analysis of air pollution, air pollution models for short-term forecast and long-term projection, air-pollutant exposure and risk assessments, etc., with a focus on its specific angle of view to answer questions using spatial and spatio-temporal approaches, in hope of advancing our understanding of air pollution and providing scientific reference and decision-making assistance for the decision makers, researchers and engineers, thus to promote the safe and efficient development of regional air pollution treatment and population health protection.

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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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