



Statistical Approaches to Investigate Air Quality

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Message from the Guest Editors

Dear Colleagues,

As the trend in air quality management continues toward increased use of portable instrumentation, including low-cost sensors, the research community is utilizing sophisticated techniques to analyze large volumes of data, as well as forecast air pollution at fine spatial and temporal scales. Recent advancements in statistical techniques, including data mining and deep learning are currently being utilized and can offer a more robust picture of air quality and support air quality management efforts. At the same time, traditional methods such as receptor models continue to be utilized – especially in regions that have only recently acquired the necessary speciation data. To bring together the research community, we invite researchers in a broad array of fields, including environmental engineering, environmental science and public health to submit original research work this special issue of Atmosphere devoted to statistical approaches to investigate 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!

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