Special Issue

Air Quality Assessment and Management

Message from the Guest Editors

Quantifying and monitoring air pollutants and their impacts in terms of public health and environmental effects is a critical component in policy discussion. In recent years, the policy-making process has paid greater attention to data gathering and analysis, and to their quality. In this regard, the progressive expansion of the existing air quality monitoring networks, the emergence of low-cost electronics and sensors, and the employment of integrated modeling tools are providing valuable information. However, due to the huge amount of involved data, there is the need for new research on post-processing techniques, including advanced computational intelligence, interoperable systems, and data mining applications. The purpose of this Special Issue is to provide an overview of recent advances in technologies, tools, and methods with a focus on improving air monitoring, increasing environmental awareness, and/or facilitating knowledge-based policymaking. Contributions from observations, field experiments, and chemical transport modeling, including data science investigations, are all welcome.

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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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