



Air Quality Control and Planning

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Message from the Guest Editor

Dear Colleagues,

According to World Health Organization (WHO), air pollution is one of the most important risk factor for all ages in recent years.

For this reason, the European Union asks regulatory Agencies to define plans assessing population and ecosystem exposure both in short and long term.

Due to nonlinearity and complexity of air pollution production and accumulation phenomena, the design of such plans requires the development and the application of Decision Support Systems to assess both the impact of emission reduction strategies on air pollution and the costs of such emission reductions. In order to develop and apply this approach, a number of challenges have to be faced, ranging from the modelling of complex systems to the definition and solution of the control problem, to the evaluation of the uncertainty in the results.

This special issue will include papers addressing all the scientific challenges related to air quality management and planning. Studies related to advances in air quality modelling, source-apportionment, air quality control, optimal control strategies selection, air pollution impacts and uncertainty evaluation on air quality control are 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!

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