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Effects and Relations of Atmospheric Circulation on Remote Sensing Data

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Deadline for manuscript submissions:
closed (30 June 2021)

Message from the Guest Editors

Dear Colleagues,

Atmospheric pollution has become an increasing problem worldwide and is associated with urbanization.

Modern and improved remote sensing techniques have great potential to gather information on atmospheric pollution. One important driver of atmospheric pollution is represented by the weather conditions, which represent the effect of atmospheric circulation. We are also interested in reviews with possible future lines of investigations. Both observational and modeling approaches are welcomed.

Topics of interest include, but are not limited to the following:

- Remote sensing observations of atmospheric optical properties
- Classification of atmospheric circulation applied to atmospheric pollution
- Influence of atmospheric circulation on aerosol optical characteristics
- Atmospheric circulation patterns associated with air quality/pollution
- Long-range transport of radioactive particles
- Implementation of air pollution forecast for smart city concept

Dr. Marius M. Cazacu
Dr. Lucian Sfica
Guest Editors

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Special Issue

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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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