



## Satellite Remote Sensing Applied in Atmosphere (2nd Edition)

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### Message from the Guest Editors

The Earth's atmosphere is where weather and climate are created and evolve, and changes in the atmospheric composition modulate weather phenomena. More specifically, natural and anthropogenic sources of particulates and gases, as well as different cloud types, precipitation patterns and extreme weather events, are of great importance and can be efficiently monitored remotely. Aerosols have catalytic impacts on the solar radiation budget, cloud formation and microphysics, affecting the weather and climate worldwide, and therefore need to be efficiently and accurately monitored from space. The accuracy assessment of any type of satellite data and products, spatiotemporal analyses in different topics of atmospheric sciences and meteorology, relative satellite-based applications and innovative techniques and methods that promote satellite remote sensing in the atmosphere and for weather events are challenging research areas.

This Special Issue welcomes studies that address these topics, based on remotely sensed data and products derived from satellites, and authors are invited to submit and publish their research findings.





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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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