

## Special Issue

# Advanced Observation for Geophysics, Climatology and Astronomy

### Message from the Guest Editors

In the Special Issue, we invite papers aimed at research on natural phenomena and processes occurring in the upper and lower layers of the Earth's atmosphere, including their interaction with the underlying surface. Of interest is the impact of global climate change on the troposphere, stratosphere and mesosphere of the Earth. In particular, we plan that the Special Issue will consider studies related to methods for the observation and analysis of geophysical parameters, including machine learning methods in the diagnosis and prediction of geophysical processes and phenomena. It is important to study the influence of global processes in the climate system on local (regional) climate changes as well as processes occurring in the middle and lower atmosphere—including aerosol and gas composition, the dynamic characteristics of air flows, turbulence and wave processes, and optical properties of the atmosphere. The search for the causes of global climate change is a priority area of this Special Issue. We also propose to consider the relations between climate change and solar activity.

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### Guest Editors

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### Deadline for manuscript submissions

closed (30 November 2023)



## Applied Sciences

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### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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