Atmospheric Optics Sensing, Mitigation and Exploitation

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Message from the Guest Editors

It is well known that the propagation of optical waves in the atmosphere can be severely affected by various meteorological processes that induce major optical effects such as scattering, refraction, and turbulence. This triad of atmospheric effects plays a critical role in the design and performance assessment electro-optical (E-O) systems including laser communications, directed energy, lidar, target tracking and designation, active imaging, long-range video surveillance, remote sensing, and power beaming.

This Special Issue provides an opportunity for broad discussions on atmospheric dynamics complexity, state-of-the-art modeling, simulations and sensing techniques, and new approaches for the predictive analysis, mitigation, and exploitation of atmospheric effects for various E-O applications.

Special Issue

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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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