

Special Issue

Atmospheric Optics Sensing, Mitigation and Exploitation

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.

Guest Editors

Prof. Dr. Mikhail Vorontsov

Professor and Wright Brothers Endowed Chair, Department of Electro-Optics & Photonics, School of Engineering, University of Dayton, 300 College Park, Dayton, OH 45469, USA

Dr. Steve Hammel

Naval Information Warfare Center Pacific, San Diego, CA 92152, USA

Deadline for manuscript submissions

closed (20 February 2022)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/51343

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

mdpi.com/journal/

[appls](https://appls.mdpi.com)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)