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Structure of Atmospheric Turbulence

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Deadline for manuscript submissions:
closed (15 October 2021)

Message from the Guest Editors

Dear colleagues,
In this Special Issue, we plan to present the current state of analytical, numerical, and experimental advances in atmospheric turbulence.

Conducting research in this field is important for solving problems of atmospheric optics, providing high-quality ground-based observations using optoelectronic systems, predicting "optical weather" and other tasks related to obtaining new knowledge about the nature of this phenomenon.

Articles in the following scientific fields are invited for publication:

- Modeling of atmospheric turbulence to problems of astronomy, vision systems, energy transfer and communication;
- Methods for reconstruction of turbulence and wind speed profiles;
- Manifestations of the non-Kolmogorov turbulence;
- Express-methods of diagnostics of atmospheric turbulence;
- Distribution of mesospheric metal atoms;
- Atmospheric turbulence in terahertz and X-ray problems.

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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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