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New Insights from Wind Remote Sensing

Guest Editors:

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Deadline for manuscript submissions:
28 February 2025

Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to collect recent research in remote sensing for wind detection.

In the first case, the work should focus on advancements in experimental methods. Theoretical, experimental, or numerical evidence of the benefits and limitations of the proposed solutions should also be provided. In the second case, existing or novel experimental techniques should be used to investigate unexplored aspects of wind physics and shed light on phenomena relevant to atmospheric science, wind energy, and/or climate change mitigation.

The scope of this Special Issue includes, but is not limited to, the following themes:

- Studies of microclimate through novel remote sensing strategies
- Global and meso-scale wind detection through satellite imaging
- Use of nacelle-mounted, ground-based, or floating lidars and radars for wind energy
- Wind resource assessment through remote sensing
- Design of optimal lidar/radar scanning strategies
- Retrieval of temperature, moisture, gas concentration through remote sensing relevant for wind
- Uncertainty quantification of wind reconstruction techniques
- Error analysis of remote sensing based on virtual experiments

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Special Issue

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Editor-in-Chief

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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