Special Issue

Remote Sensing and In-Situ Characterization of Desert Dust Outbreaks: From Sources to Climate Impact

Message from the Guest Editors

The detection of intense dust outbreaks is of paramount importance because of the wide-ranging impact of dust outbreaks, including their effect on energy production and cloud forming. Moreover, detecting intense dust outbreaks would lead to a better understanding of their effect on climate, the transport of nutrients, and trace elements. Remote sensing techniques provide unique tools to characterize desert dust events, detecting the vertical distribution of dust and enabling range-resolved retrieval of its optical and microphysical properties. This Special Issue focuses on the detection and characterization of desert dust events through remote sensing, in-situ measurements, and their interpretation/impact via the use of models. Articles may address, but are not limited, to the following topics:

- Characterization of desert dust outbreaks.
- The effects of atmospheric aerosols on Earth's radiation budget and climate change.
- The effects of atmospheric aerosols on health.
- Aerosol remote sensing techniques.
- Aerosol in-situ measurement techniques.
- The use of models for aerosol effect estimation.

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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.

Editors-in-Chief

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