Special Issue

Analyzing Aerosol–Cloud–Climate Interactions through Remotely Sensed Data

Message from the Guest Editors

The impact of aerosols on cloud properties is one of the largest uncertainties in the anthropogenic radiative forcing of the climate. Significant progress has been made in constraining this forcing using observations, but uncertainty remains, particularly around the magnitude of cloud rapid adjustments to aerosol perturbations. To accurately quantify cloud responses to aerosols, there is a need for an improved detection of both spatial and temporal quantities of cloud water content, albedo, and cloud and aerosol particle numbers. This Special Issue seeks papers dedicated to concurrent measurements of aerosols and clouds using either passive or active remote sensing sensors from space-borne, airborne, balloon-borne, and UAV platforms, as well as ground-based sensors, with a special emphasis on high temporal resolution measurements that can detangle meteorological effects from aerosol effects on clouds. We welcome papers covering scopes of liquid, mixed-phase, and cirrus cloud properties under various aerosol conditions (pristine and polluted) and at various geographical locations (equator and high latitudes).

Guest Editors

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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.

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