

Topical Collection

The VIIRS Collection: Calibration, Validation, and Application

Message from the Collection Editors

The Visible Infrared Imaging Radiometer Suite (VIIRS) stands as a pivotal instrument aboard the Suomi National Polar-Orbiting Partnership (SNPP), NOAA-20, NOAA-21, and future JPSS spacecrafts. Commencing with SNPP in 2011, VIIRS has consistently delivered high-quality global observations for more than a decade, extending its support to diverse applications. These applications encompass weather forecasting, environmental monitoring, ocean and land studies, climate change research, and the monitoring of hazards such as hurricanes, fires, volcanoes, floods, storms, and tornadoes, as well as facilitating disaster relief efforts. The calibration and validation teams supporting NOAA and NASA VIIRS sensor data record (SDR) products perform research and development using advanced calibration and validation algorithms and methodologies for both instrument prelaunch and postlaunch. The central purpose of this Special Issue is to present a range of research on VIIRS calibration and validation, and to explore the applications enabled by VIIRS onboard SNPP, NOAA-20, and NOAA-21; it also aims to provide an overview of the prelaunch activities for VIIRS on future JPSS missions.

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Remote Sensing

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Impact Factor 4.1
CiteScore 8.6



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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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