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Algorithm Development in Earth Observation Modeling Using Multi-sensor Data

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Message from the Guest Editors

This Special Issue titled “Algorithm Development in Earth Observation Modeling Using Multi-sensor Data” focuses on the evolution and significance of these algorithms, especially as they apply to understanding active tectonic and volcanic geomorphology processes. This Special Issue will delve into the use of radar remote sensing techniques, such as Interferometric Synthetic Aperture Radar (InSAR), which are essential for mitigating natural hazards, and optical remote sensing involving multispectral and hyperspectral sensors, which are vital for environmental monitoring and land-use changes.

With a broad scope covering major geological hazards like earthquakes, volcanoes, landslides, and debris flows, we welcome studies that harness multisource data integration tools, such as satellite remote sensing, InSAR, high-resolution drone airborne optical images, remote spectral datasets, and LiDAR. Through fostering algorithmic advancements in remote sensing, we aim to better equip ourselves to understand and respond to our rapidly changing planet.

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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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