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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 Editorial Board

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