



Enhancing Geological Remote Sensing with Cutting-Edge Sensor Technologies

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Deadline for manuscript
submissions:

30 April 2025

Message from the Guest Editors

Dear Colleagues

The synthesis of geological sciences and RS not only advances our fundamental understanding of the Earth's geological processes, but also has practical implications for resource exploration, environmental monitoring, and disaster risk reduction and mitigation strategies.

Recent advancements in sensor technology have enabled data to be captured in the form of images with a higher spatial and spectral resolution. Hyperspectral imaging has rapidly developed over the past decade, and modern sensor technologies can cover large areas with exceptional spatial, spectral, and temporal resolutions. Nowadays, hyperspectral sensors placed on various platforms capture a wide range of detailed spectral information, enabling the precise identification and analysis of geological features.

Similarly, technologies based on the use of synthetic aperture radar images improved significantly in the last decade due to the growing availability of vast amounts of data collected by multiple-satellite sensors operating at different frequency bands, with complementary viewing angles and polarization and acquisition modes.





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Message from the Editor-in-Chief

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Journal Rank: JCR - Q1 (Geosciences, Multidisciplinary) / CiteScore - Q1 (General Earth and Planetary Sciences)

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