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Hyperspectral and Multispectral Imaging in Geology

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Deadline for manuscript submissions:

closed (31 December 2021)

Message from the Guest Editors

This Special Issue aims at collecting high-level contributions focusing on new advances in hyperspectral and multispectral imaging and relative processing algorithms for geological applications.

Geological applications:

- Surface composition (rock, mineral and soil mapping)
- Alteration zones, associated mineral and metal deposits
- Planetary geology
- Hydrocarbon exploration
- Mine tailings and pollution detection
- Drill core imaging
- Ground-based outcrop imaging
- Geothermal energy potential

Data processing techniques/algorithms:

- Data preprocessing (noise reduction, gap filling)
- Imaging spectroscopy
- Clustering
- Classification
- Spectral unmixing (Linear and non-linear)
- Dimensionality reduction
- Data transformations
- Multiscale imaging
- Validation procedures



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Message from the Editor-in-Chief

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