



Multispectral and Hyperspectral Remote Sensing Data for Mineral Exploration and Environmental Monitoring of Mined Areas

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Message from the Guest Editors

Dear Colleagues,

Remote sensing technology plays a vital role in the initial stages of ore mineral exploration. In recent decades, hydrothermal alteration mineral detection has become one of the most conspicuous applications of multispectral and hyperspectral remote sensing satellite data for ore mineral exploration. The Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER), Landsat data series, the Advanced Land Imager (ALI), Worldview-3, Hyperion, HyMap and the Airborne Visible/IR Image Spectrometer (AVIRIS) multispectral and hyperspectral data support cost-effective techniques for ore mineral exploration around the world. Advanced image processing algorithms based on state-of-the-art data extraction techniques can be implemented for detecting key alteration minerals associated with a variety of ore deposits. On the other hand, human-induced change in the form of mine excavation, mine tailing, mine waste and acid runoff requires particular monitoring by remote sensing satellite data. Environmental pollution mapping and monitoring of mined areas are the main challenges that need to be addressed for future sustainability and environmental management in metallogenic provinces.





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Message from the Editor-in-Chief

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