Special Issue

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

Message from the Guest Editors

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

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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