Special Issue

Advanced Remote Sensing Technologies and Their Applications

Message from the Guest Editors

With the increase and progressive development of remote sensing satellites and airborne sensors, it has become possible to acquire different types of data, enabling us to analyze the characteristics of the Earth's surface and distinguish geological formations and units. The combined use of advanced technologies, such as deep learning, which was inspired by brain neural science, can enable the automatic learning of high-level semantic features from remote sensing images, offering a more refined level of accuracy than earlier remote sensing technologies. Based on this background, this Special Issue addresses hyper-spectral/multi-spectral image classification, unmixing, image fusion and sharpening, artificial intelligence and machine learning, lithological mapping, and other geological applications related to remote sensing.

- **Keywords**

- lithological mapping
- deep learning
- remote sensing imagery processing
- image classification
- image fusion and sharpening
- artificial neural network
- geological remote sensing applications

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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