Special Issue

Advances in Deep Learning for Hyperspectral Image Processing

Message from the Guest Editors

These days, artificial intelligence (AI) is applied in almost every domain of life,including in satellite remote sensing, medical image processing and so on. With the development of imaging technology, images with very high spectral resolution are proving to be an important asset in areas such as land use, land coverage, meteorology, vegetation mapping, military applications, disaster risk management, change detection, assisting diagnosis, predicting patient outcome, etc. Recent developments in imaging technology and AI technologies have provided great opportunities to develop reliable, accurate and time-effective solutions and indicators to overcome climate and environmental change challenges. Regarding the massive amount of hyperspectral image (HSIs) data available, it is difficult to meet the growing demand for hyperspectral image applications by interpreting the images manually. Therefore, the need for methods to interpret HSIs automatically, efficiently and accurately presents a significant challenge in the research and application of HSIs technology.

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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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