Machine Learning and Pattern Analysis in Hyperspectral Remote Sensing

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Message from the Guest Editors

Breakthroughs in the domain of machine learning over the past 10 years have motivated the remote sensing community to research in this direction, with results that outperform traditional approaches. In the context of hyperspectral data, thanks to its outstanding predictive capabilities, machine learning has become essential to automatically decipher the relationships between an optical/radiative property and the corresponding information. Nevertheless, several challenges to improve the performance of imaging spectroscopy with machine learning remain, such as the intrinsic dimensionality of hyperspectral images, the robustness and reliability of neural networks, spatio–temporal approaches, combinations with other measurements, imperfect and potentially large learning databases, lack of standardized datasets and experiments for benchmarking, complementarity between hyperspectral imagery and multimodal acquisitions, benefits of combining multitemporal hyperspectral images.

This Special Issue aims to present new and/or innovative methods, approaches, and products demonstrating the benefits of machine learning applied to hyperspectral imagery.

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Special Issue

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Message from the Editorial Board

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