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Machine Learning and Pattern Analysis in Hyperspectral Remote Sensing

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Deadline for manuscript submissions:
closed (31 May 2021)

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.

https://www.mdpi.com/si/39743

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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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