Special Issue

Machine Learning Methods Applied to Optical Satellite Images

Message from the Guest Editors

In recent years, machine learning algorithms have been remarkably successful. Many data-intensive technical and scientific fields have benefited from these developments, including remote sensing tasks. There are many types of remote sensing data available collected from sensors deployed on different platforms. Therefore, image exploitation has a focus on long-time series data with machine learning algorithms. Nevertheless, several aspects of the implementation of these methods are still challenging, such as the availability of large reference datasets, spatial autocorrelation and eventually the generalizability and transferability of the models. In this special issue, we explore the wide-range of machine learning to extract patterns from Remote Sensing data with the main focus on optical imagery. We invite papers that focus on (i) applications of a variety of methods ranging from basic algorithms such as PCA to more sophisticated classification and regression frameworks like SVMs, and artificial neural networks; (ii) methodological papers that propose new machine mearning algorithms or their improvements for Remote Sensing applications, as well as (iii) review papers.

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Message from the Editorial Board

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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