Special Issue

Applications of Machine Learning on Earth Sciences

Message from the Guest Editors

In recent years, interest has increased in time series and image processing analyses in a number of fields related to earth sciences. The improvements in data acquisition systems have increased the quantity and quality of data analysed, processed, and interpreted, and have shortened the time in which results can be produced. The large data volume acquired by the different acquisition systems requires suitable analysis tools that enhance traditional approaches by extracting and applying the latent knowledge embedded in the data. One of the key challenges is structuring and organising the huge amount of raw data; the type of information that could aid the scientific community must be determined to achieve a deeper knowledge of the complex dynamics that govern the geophysical and geochemical systems of our planet. Upcoming methodologies need to address the long-term challenges of data management and accessibility. Data mining, cloud computing, and machine learning are the most appropriate disciplines for the analyses of these high throughput data.

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Message from the Editor-in-Chief

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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