

Special Issue

Machine Learning Approaches for Geophysical Data Analysis

Message from the Guest Editors

Geophysical data lie in the central part of geophysical studies and provide the basis for gaining insights into the underlying fundamental principles. However, geophysical data are often complex, noisy and difficult to evaluate, making their analysis and interpretation very challenging. The recent surge in machine learning studies and applications shows it is a powerful tool for extracting valuable information and insights from complex datasets. Due to the nature of big data, machine learning provides a promising avenue for enhancing the accuracy and efficiency of geophysical data analysis. The use of machine learning in geophysics has already led to significant advances in the fields of seismology, geodesy, environmental science, and geo-energy exploration, among others. In this context, we are pleased to announce a Special Issue on "Machine Learning Approaches for Geophysical Data Analysis" which aims to explore the growing role of machine learning techniques in geophysics and their potential to transform the way geophysical data are analyzed and interpreted.

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