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Multidisciplinary Models and Applications of Machine Learning and Computational Statistics

Guest Editor:

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Message from the Guest Editor

Machine learning (ML) algorithms have been applied successfully in many disciplines, taking on various types of data that were not accessible before, including big-data and high-dimensional data.

In this special issue we are interested in multidisciplinary research of machine learning and other disciplines, such as biology, chemistry, medicine and psychology.

Specifically, we are interested in case-studies that demonstrate how the ML methodology is improved by the added value that a domain expert brings to the research team.

A domain expert may contribute their special knowledge in key junctions of the data mining process:

data preprocessing, feature engineering, choosing the right ML model, tweaking the model in a non-standard way, and interpretation. One such example is ML-assisted drug design, where the knowledge of the chemist is crucial to extracting relevant features from the molecule.



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Special Issue



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Message from the Editor-in-Chief

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