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Recent Advances in Feature Selection

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Deadline for manuscript submissions:
closed (15 September 2023)

Message from the Guest Editors

Dear Colleagues,

This Special Issue calls for contributions from researchers that target the recent developments in the field of feature selection associated with machine learning, including deep learning models for a wide variety of data from both theoretical and practical perspectives.

The topics of interest include, but are not limited to, the following:

New feature selection algorithms;
Evolutionary search-based techniques for feature selection;
Clustering and graph-based techniques for feature selection;
Feature selection for high dimensional data;
Feature selection for time series data ;
Feature selection for textual data;
Feature selection for DNN models;
Deep feature selection;
Ensemble methods for feature selection;
Feature selection applications

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Message from the Editor-in-Chief

Machine learning deals with understanding intelligence to design algorithms that can learn from data, gain knowledge from experience and improve their learning behaviour over time. The challenge is to extract relevant structural and/or temporal patterns ("knowledge") from data, which is often hidden in high dimensional spaces, thus not accessible to humans. Many application domains, e.g., smart health, smart factory, etc. affect our daily life, e.g., recommender systems, speech recognition, autonomous driving, etc. The grand challenge is to understand the context in the real-world under uncertainty. Probabilistic inference can be of great help here as the inverse probability allows to learn from data, to infer unknowns, and to make predictions to support decision making.

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