Random forests – applications and developments

Several master thesis topics available.

The random forest algorithm [1] has become one of the most popular machine learning algorithms, thanks to its wide applicability, high predictive performance and low computational cost, e.g., in a recent investigation it turned out to be the winning approach out of 179 compared algorithms on over 120 datasets [2]. There are a number of aspects of the algorithm that need further study and which possibly can lead to improvements, including the handling of high-dimensional sparse data, missing values, parallelization, voting strategies, providing statistical guarantees and interpretability.


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