



Contribution ID: 70

Type: **not specified**

Towards A Nonparametric Bump Hunting Algorithm for Rule Generation In High-dimensional Data

PRIM is a Bump Hunting algorithm traditional used in a supervised learning setting to find regions in the input variables subspace while being guided by the data analyst, that are associated with the highest or lowest occurrence of a target label of a class variable.

We present in this work a non-parametric PRIM-based algorithm that involves all the relevant attributes for rule generation and that provides an additional post processing step for rule pruning and organization.

Special/ Invited session

Classification

Both methodology and application

Keywords

XAI, bump hunting, PRIM

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Track Classification: Machine Learning