Title: Decision list

URL: https://en.wikipedia.org/wiki/Decision_list

PageID: 19317802

Categories: Category:Machine learning, Category:Machine learning stubs

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Decision lists are a representation for Boolean functions which can be easily learnable from examples. Single term decision lists are more expressive than disjunctions and conjunctions ; however, 1-term decision lists are less expressive than the general disjunctive normal form and the conjunctive normal form .

The language specified by a k-length decision list includes as a subset the language specified by a k-depth decision tree .

Learning decision lists can be used for attribute efficient learning .

Definition

A decision list (DL) of length r is of the form:

where f i is the i th formula and b i is the i th boolean for i ∈ { 1... r } {\displaystyle i\in \{1...r\}} . The last if-then-else is the default case, which means formula f r is always equal to true. A k -DL is a decision list where all of formulas have at most k terms. Sometimes "decision list" is used to refer to a 1-DL, where all of the formulas are either a variable or its negation .

See also

Decision stump

References

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