

## Chapter 9

### DECISION TREES

#### 1.1.1.1.1.1.1

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Abstract: This paper presents a review of the most popular approaches for decision tree induction. We present the various approaches as to methods for selecting splitting attributes, splitting rules, and pruning rules with the aim of providing a practical tool for comparing them. This paper presents an updated version of the paper published in *Computational Intelligence in Data Mining* (Springer, 2004). The present version is revised according to comments from reviewers and suggestions from students attending graduate seminars and graduate workshops.

#### 1.1.1.1.1.1.4

Keywords: Decision tree, Inductive learning, Data mining, Data classification, Decision tree induction, Pruning, Attribute selection, Rule induction, Decision tree

### 1.1.1.1.1.1.5. Decision Trees

A decision tree is a structure representing an inductive generalization of the training space. The structure uses conditions of nodes that define a nested set of rectangles in a discrete space with a finite number of nodes that form an increasing lattice. All nodes within levels lower than the root node are called internal nodes or called unpruned nodes. All nodes within the root node are called leaf nodes or pruned nodes. The inductive model maps instances from the training space into this set of nodes and produces a prediction as a function of the structure of the input attributes values. In this chapter we will study the

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