

# MACHINE LEARNING

## PART 1: SUPERVISED LEARNING METHODS

### DECISION TREES AND RULES

#### LEARNING OF DECISION TREES: ID3

- ID3 (Iterative Dichotomiser, Quinlan, 1980)
- Based on GLS (classification)
  - only binary attributes
  - heuristic to decide what attribute to choose in each node of the tree
- Set of techniques with commercial success
- Generate decision trees from training examples
- Idea: find the simplest tree that best separates the examples
- Use a heuristic based on entropy to choose the attributes

#### EXAMPLE

Instance	Account opened?	Outstanding amount?	Residence (city)?	Last purchase?	Class
1	Y	N	Y	Book	Y/N
2	Y	Y	Y	CD	Y/N
3	Y	Y	Y	Book	Y/N
4	Y	Y	Y	Book	Y/N
5	Y	Y	Y	Book	Y/N
6	Y	Y	Y	Book	Y/N
7	Y	Y	Y	Book	Y/N
8	Y	Y	Y	Book	Y/N

#### DECISION TREE EXAMPLE



#### STRATEGY OF ID3



#### ALGORITHM

1. Select an attribute  $A_i$  that maximises the information gain  $G(A_i)$
2. Create a node for such attribute with as many successors as different values the attribute has
3. Distribute the training examples in the successors, using the value for attribute  $A_i$
4. For each successor: if there's only examples of one class  $C_k$ , then label the node with  $C_k$ ; otherwise, call ID3 with a table made up of the examples of the node, erasing the column of attribute  $A_i$

# Machine Learning Exam Solution

**M Carnoy**



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