

# 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	Access point	Out-coverage	Location	Last position	Class
	$A_1$	$A_2$	$A_3$	$A_4$	
1	0	0	0	North	Yes
2	0	0	0	North	Yes
3	0	0	0	North	Yes
4	0	0	0	North	Yes
5	0	0	0	North	Yes
6	0	0	0	North	Yes
7	0	0	0	North	Yes
8	0	0	0	North	Yes
9	0	0	0	North	Yes
10	0	0	0	North	Yes
11	0	0	0	North	Yes
12	0	0	0	North	Yes
13	0	0	0	North	Yes
14	0	0	0	North	Yes
15	0	0	0	North	Yes
16	0	0	0	North	Yes
17	0	0	0	North	Yes
18	0	0	0	North	Yes
19	0	0	0	North	Yes
20	0	0	0	North	Yes
21	0	0	0	North	Yes
22	0	0	0	North	Yes
23	0	0	0	North	Yes
24	0	0	0	North	Yes
25	0	0	0	North	Yes
26	0	0	0	North	Yes
27	0	0	0	North	Yes
28	0	0	0	North	Yes
29	0	0	0	North	Yes
30	0	0	0	North	Yes
31	0	0	0	North	Yes
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33	0	0	0	North	Yes
34	0	0	0	North	Yes
35	0	0	0	North	Yes
36	0	0	0	North	Yes
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193	0	0	0	North	Yes
194	0	0	0	North	Yes
195	0	0	0	North	Yes
196	0	0	0	North	Yes
197	0	0	0	North	Yes
198	0	0	0	North	Yes
199	0	0	0	North	Yes
200	0	0	0	North	Yes

#### 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

**Karin Nielsen-Saines**



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