

Medical Decision Making Learning: Decision Trees

Artificial Intelligence

CSPP 56553

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Agenda

- Decision Trees:
 - Motivation: Medical Experts: Mycin
 - Basic characteristics
 - Sunburn example
 - From trees to rules
 - Learning by minimizing heterogeneity
 - Analysis: Pros & Cons

Expert Systems

- Classic example of classical AI
 - Narrow but very deep knowledge of a field
 - E.g. Diagnosis of bacterial infections
 - Manual knowledge engineering
 - Elicit detailed information from human experts