

CS 583: Expert Systems

Objectives

- Students will be exposed to expert systems, decision-making and decision analysis, the creation and structure of expert systems, interfaces to expert systems, and examples of expert systems.

Prerequisites

- CS 480.

Syllabus

- Medical expert systems and clinical decision analysis
- Decision making under uncertainty
- Inference mechanisms for expert systems
 - Production rules
 - Pattern recognition
 - Automatic theorem proving
 - Fuzzy logic
- Expert system architecture
- Knowledge engineering
- Information retrieval
- Natural language interfaces

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