

Uncertainty In Artificial Intelligence
Exercises

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Abstract

The topics of the course are:

- Uncertainty sources that affect models: typology, issues, and modeling approaches.
- Measure-based uncertainty modeling.
- Logic-based uncertainty modeling.
- Fuzzy models: fuzzy sets, fuzzy logic, fuzzy rules, motivations for fuzzy modeling, tools for fuzzy systems, design of fuzzy systems, applications.
- Bayesian networks: basics, design, learning, evaluation, applications.
- Hidden Markov Models: basics, design, learning, evaluation, applications.
- Applications: motivations, choices, models, case studies.

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