

Introduction to Artificial Intelligence

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Artificial Intelligence

- **Rationale:** provides students with theoretical foundations and practical techniques in AI
- **Pre-requisites:** Introduction to Programming

Outline

- Introduction
- State space and Search
- Heuristic Search
- Constraint Satisfaction Problem
- Game Playing
- Knowledge Representation using Propositional logic

Outline

- Knowledge Representation using First-order logic
- Inference Rules
- Structured Knowledge and Rule-based Systems
- Uncertain Knowledge Representation and Reasoning
- Machine Learning

References

- **Stuart Russell & Peter Norvig. 2005.** Artificial Intelligence - A Modern Approach. Second Edition.
- **Tom Mitchell. 1997.** Machine Learning
- Cao Hoàng Trự. Trí tuệ nhân tạo = Thông minh + Giải thuật. Tp. Hồ Chí Minh, Đại học Quốc gia Tp. Hồ Chí Minh, 2010.

Assessment

- Assignment1: 10%
- Assignment2: 10%
- Midterm: 20%
- Home work: 10%
- Final:50%