Artificial Intelligence - Overview

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Agenda of this course

- To introduce to the field of AI
- To explain the challenges inherent in building an Intelligent System
- To explain the
  - Key paradigm
  - Core techniques
  - Algorithms

Processing Paradigm

1. Data
2. Information
3. Knowledge
4. Intelligent

Instructional Objectives

On taking this course, you should be able to

- Understand the role of basic Knowledge representation, Problem solving, and learning methods in AI In engineering intelligent systems
- Assess the applicability, strengths, weaknesses of these methods in solving particular engineering problems
- Develop intelligent systems by assembling solutions to concrete computational problems
- Appreciate the role of problem solving, natural language processing and vision in understanding human intelligence from a computational perspective

Course goals

After taking this course you should be able to:

- Formulate problems as state space search problem and solve them efficiently
- Write game playing programs
- Use machine learning to find patterns in data
- Build Expert System