



Artificial Intelligence

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Course Introduction

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What is Artificial Intelligence?

- How can we make computers appear “intelligent”?
- How can computers help us make informed decisions?
- How can we make computers perform tasks that are difficult for computers? Tasks that require an “intelligent” approach, because computing power alone is not enough.

Applications



Learning Outcomes

On completion of the course, the student should be able to:

- Recognize that a problem is an AI-problem
- Model AI-problems and point out an appropriate solution (for example expert systems, search algorithms, learning)
- Describe and use search methods, expert systems, statistical methods and simple methods for learning
- Discuss different definitions of AI and relate them to AI's history

Course Structure & Assessment

Course structure

- About 10 Lectures, where the course content is explained.
- 5 Assignments (coding), where you get to gain hands on experience in AI.
- Several questions & help sessions, where the assistants give you support with assignments and course content.

Assessment

- Passing requirements (G): you need to complete at least 2 assignments (out of 5) and pass the exam.
- Grading (3, 4, 5): the final grade is the number of completed assignments +1.

Assignments

- Assignments can be done in groups of up to 3 students
- ALL individuals must make a reasonable contribution to each submitted assignment
- There will be 5 assignments to choose from (you don't need to submit all of them)
- Some assignments will be in Python and some will be in R
- Each assignment is graded pass/fail
- No written reports!
- Assignments from previous years include “Delivery Man” (using A*) and “Where’s Croc” (using hidden Markov models)

Questions & Feedback



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<https://forms.gle/o6euAbY2zT8CZwA39>