

FÖRSLAG TILL PROGRAMNÄMND INFÖR ÅR

Artificial Intelligence (6 ECTS credits) /Artificiell intelligens/

For MT and ACG programs

Advanced level, starting 2015

Förslagsställare (Namn, funktion, Inst/Enhet)

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EXISTERADE KURS

The proposed course replaces the course Datamodeller för kognitiva processer (TNM066).

FÖRSLAGET I DETALJ

Background

This course is a core AI course and includes the major AI areas and applications. The students taking this course will learn fundamental knowledge and techniques that can be applied in several other courses and that are relevant in a number of applications.

The students taking this course that are interested in learning more about AI can continue with the course Intelligent Computer Graphics (TNM095).

Aim

The aim of the course is to introduce concepts and applications of artificial intelligence (AI).

Prerequisites

- Programming in C++ or Java
- Data structures

Note: This course is a prerequisite of the course Intelligent Computer Graphics TNM095

Organisation

Lectures and laboratory work.

Course Topics

Course content includes:

- Search and Problem Solving
- Reasoning with Uncertainty
- Machine Learning
- Decision making
- Planning
- Neural Networks
- Genetic algorithms
- Fuzzy logic
- Intelligent agents

Examination

Laboratory work (U,3,4,5)

6 ECTS