

FFR125, FIM760

# Autonomous agents

LP III-IV, 2008

## Reading guidance

### **Literature:**

1. **Wahde, M.:** *An introduction to autonomous robots* (lecture notes). [MW]
2. **Xie, M. --** *Fundamentals of robotics - linking perception to action*. [MX]
3. Various scientific papers (web links or printouts will be made available during the course) .

### ***Preliminary reading program:***

(quarter.week)

**Note:** Theory and simulations will be covered in the 3rd quarter. Robot construction and additional simulations will be the topics of the 4th quarter.

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#### Lecture 7.1: Behavior-based robotics: Generating robot behaviors

MW p. 39-52,

- 3.1 Approaches to machine intelligence; *important*
- 3.2 Behavior-based robotics; *important*
- 3.3 Generating behavior; *important*

#### Lecture 7.2: Evolutionary robotics: Evolving basic behaviors.

MW p. 53-74.

- 4.1 Introduction and motivation; *important*
  - 4.2 Issues in evolutionary robotics; *important*
  - 4.3 Evolving single behaviors; *important*
  - 4.4 Evolving behaviors with ERSim; *important*
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