FFR125, FIM760

Autonomous agents

LP III-IV, 2008

Reading guidance 2008-02-26:

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).

Lecture 11: Control system of robots I:
(1) MX 199-220:
    5.1 Introduction; *briefly*
    5.2 Automatic-feedback control
        5.2.1 System concept; *important*
        5.2.2 Closed-loop control scheme; *important*
        5.2.3 System dynamics; *important*
        5.2.4 Transfer functions; *briefly*
        5.2.5 System performance; *briefly*
        5.2.6 Analysis of absolute stability; *briefly*
        5.2.7 Tuning of PID control algorithms; *important*

(2) Bräunl, T.: Embedded robotics, p. 93-107; *important*
Printouts distributed in the lecture (available upon request)