

BASIC INFO FOR ROBOT CONTROL COURSE

Andreja Rojko

Course outline

- Introduction to robot control
- Robot dynamics
- Computed torque control
- Robust control
- Observers and estimators
- Adaptive control
- Force control
- Exercises; realization of controllers by simulation, integrated into lectures

REQUIREMENTS

- Reports are required for all exercises marked with **REPORT REQUIRED**
- Additional questions and comments will be provided after receiving the report.
- Optionally (for a better grade): oral defense and/or seminar.

DEADLINES

Deadline for sending reports (send to A.Rojko@fh-kaernten.at): **07.02.2016**

Comments to the reports will be provided until: **14.02.2016.**

Time for update of reports until: **21.02.2016.**

Literature

- Thomas R. Kurfess (ed.), *Robotics and automation handbook*, CRC press, 2005
- Frank L. Lewis, Darren M. Dawson, Chaouki T.Abdallah, *Robot manipulator control*, Marcel Dekker Inc., 2004
- Robert J. Schilling, *Fundamentals of robotics*, Prentice-Hall, 2000
- Other (references within notes)
- Selected scientific papers