Practical Course Robotics
Winter term 2021/22

In this course students get the chance to work on real robots (manipulators, mobile robots & dynamic robots), realizing the concepts learnt in the robotics lecture in real world.

Participation in this course is recommended in preparation for future theses work in robotics. The course will be conducted in English and is targeted at students of MSc Computer Science, MSc Softwaretechnik, and MSc Informatik. The course is not designed for the INFOTECH curriculum. The number of participants is limited to 12.

Contents

The course will fully take place in our robotics lab down-stairs. We will have two regular sessions a week; about 1/4 of the time we present tutorials, the rest of the time you will code the robot. The topics we cover include, for instance,
1) Basic motion: feedback control in various task spaces,
2) Grasping & Manipulation,
3) ROS (Robot Operating System)
Towards the end of the course you may define an own project to work on.

The robot you work on is the RethinkingRobots Baxter. Everything will be coded in C++ or Python, using our own interfaces to the robots.

Prerequisites

Successful completion of the Robotics lecture is mandatory, as well as good programming skills in C++ or Python.

On any questions, please contact:
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