

Introduction to Robotics

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available for

- 9 CFU, Informatics, mandatory
- 6 CFU, Mech. Eng. elective

semester: first

modality: projects + oral discussion

material: Siciliano et al. “Robotics” + slides (already available)

Objective: Basic methodological tools to handle robotic systems

Challenge: linear algebra + Matlab

Topics (on 9 CFU):

Kinematics

Differential kinematics

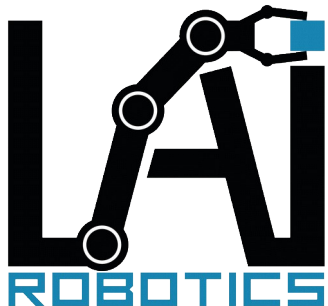
Dynamics

Actuators and sensors

Trajectory planning

Motion control

Interaction control



Robots and available thesis: <http://webuser.unicas.it/lai/robotica>