



colabs



COORDINATOR	Dr. Plinio Moreno
PHD/PÓS-DOC/...	Dr. Plinio Moreno
INSTITUTE/LAB	Institute for Systems and Robotics
PROJECT TITLE	Tactile sensing for exploratory grasping actions of Vizzy, a humanoid robot
PROJECT DESCRIPTION	Vizzy is a humanoid robot on wheels, equipped with tactile sensors on its finger limbs. The main goal of the project is to design and implement algorithms that execute exploratory grasps actions such as precision grips. The force sensed during the precision grips will determine if the robot needs to exert a larger or smaller force to grasp the object successfully
WORK FIELD/CONCEPTS	Control systems, physics, implementation of algorithms
NUMBER OF VACANCIES	2
STUDENT PROFILE	Organized, sociable, responsible.
REQUIRED SKILLS	Basic knowledge of programming, Python programming is a plus. Reading scientific reports.
OBJECTIVES	Develop algorithms that decide if Vizzy need to exert a larger/smaller force on the finger limbs, using as feedback the tactile sensors on the finger limbs.
NECESSARY EQUIPMENT	Laptop
DURATION	16 weeks Start: March 15th Finish: July 15th
RECOMMENDED SCHEDULE	1 afternoon a week (1 afternoon = 4h)