

COMP3018 – Human-Robot Interaction

Week 2 – Hands-on with the Nao and Pepper Robot

Semester 2, 2025-2026

The purpose of this workshop is to have your first hands-on with the Nao robot from Aldebaran robotics. You will have different exercises to complete available on the DLE that aim at studying different behaviors from the robot that are related to what you study in the module COMP3018.

In all the following exercises, what are your observations about modeling a behavior on the robot?

Exercise 1

This exercise focuses on studying the basic features in the interface **Choregraph** and how to connect to the physical robot and make it run. It also shows a few examples on using Python for controlling the robot behavior.

Exercise 2

This exercise focuses on speech-recognition using the robot directly.

Exercise 3

This exercise focuses on using the sensors of the robot.

Exercise 4

These exercises 4 and 5 focus on using the robot's camera and computer vision.

Exercise 5

This exercise 6 focuses on creating an integrated human-robot interaction task.