Minutes of Meeting

Bachelor's Thesis: 3D Object Recognition Using Kinect

October 15, 2013

Author:
Irene Sanz Nieto [ISN]

Supervisor:
Victor González Pacheco [VGP]

1 Points discussed:

1.1 ROS distro

It was discussed the necessity of downgrading the currently installed ROS distro (Hydro) to Groovy. This is the version in which AD is being developed.

1.2 Migration from catkin to rosbuild

Since the code of the ROS demo is built with catkin and the AD package is built using rosbuild, it is needed to migrate the ROS demo to rosbuild for further integration.

1.3 Thesis objectives

2 Decisions made:

2.1 OpenSource character of the Thesis

It was decided that the Thesis will be a separate ROS module that will interact with the AD package. This way, at least most of the Bachelor's Thesis will be OpenSource.

2.2 Thesis objectives

The Thesis will finally consist on a software recognition. The peculiarity is that the objects will be held by a person, and hence there will be partial occlusion.

3 To-Do List:

3.1 Change the ROS distro being used [ISN]

3.2 Migrate from catkin to rosbuild [ISN]

3.3 State of the Art in partially occlused object recognition and 3D object tracking [ISN]

Make comparative graphs and tables of the performance of the different algorithms.

3.4 Search about deep learning [ISN]

3.5 Inform of the different discoveries in that search (to [VGP])

Next Meeting: October 24, 15h