



INTELLIGENT ROBOTS

LAB 1: INTRODUCTION TO ROS

Preparation

- Installation of Ubuntu 14.04
- Installation of ROS Indigo
- Installation of Turtlebot2 Package

Basic Theories

- ROS architecture
- ROS master, nodes, and topics
- Console commands
- Catkin workspace and build system
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- Launch-files

Tasks

- Understand the basic theories of ROS
- Finish the beginner level tutorials of ROS
- Turtlebot2 simulation in Gazebo

Useful Links

- ROS beginner level tutorials:
<http://wiki.ros.org/ROS/Tutorials>
- Turtlebot2 ROS documentation:
<http://wiki.ros.org/Robots/TurtleBot>
- Programming for Robotics- ROS ETH Zurich:
<http://www.rsl.ethz.ch/education-students/lectures/ros.html>