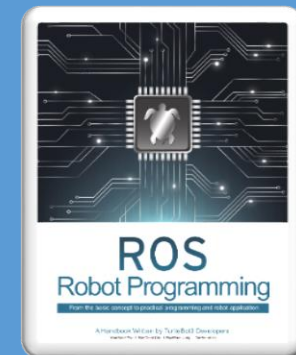


# ROS Commands

**ROBOTIS**

**KAIST**



**You Tube**

 **Subscribe**

**Textbook**  
**P. 90~127**

# Contents

---

**I. Introduction to ROS commands**

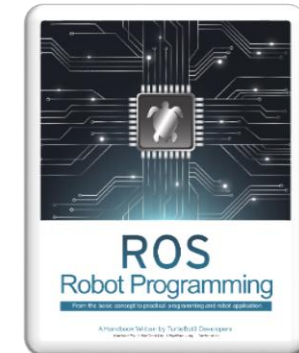
**II. ROS shell commands**

**III. ROS execution commands**

**IV. ROS information commands**

**V. ROS catkin commands**

**VI. ROS package commands**



**You Tube**

**Subscribe**

**Textbook**  
**P. 90~127**

# command-Line Tools

# Command-Line Tools

---

The following **command-Line Tools** are used throughout the ROS course.

rospack, roscd, rospd, rosls, rosed, roscp, rosdep,  
roswf, catkin\_create\_pkg, wstool, catkin\_make,  
roscore, rosrn, roslaunch, rosnod, rostopic,  
rosservice, rosparam, rosmg, rossrv, rosbag, tf\_echo

Please refer to the distributed ROS cheat sheet.

[https://github.com/oroca/oroca\\_ros\\_tutorials/raw/master/ROScheatsheet\\_indigo\\_catkin.pdf](https://github.com/oroca/oroca_ros_tutorials/raw/master/ROScheatsheet_indigo_catkin.pdf)

# ROS shell commands

command	importance	Command description	Detailed description
roscd	★★★	ros+cd(changes directory)	Move to the directory of the specified ROS package
rosls	★☆☆	ros+ls(lists files)	Check the list of files in the ROS package
roscd	★☆☆	ros+ed(editor)	Edit files in the ROS package
roscp	★☆☆	ros+cp(copies files)	Copy Files in the ROS Package
rospd	☆☆☆	ros+pushd	Add Directories to the ROS Directory Index
roscd	☆☆☆	ros+directory	Check the ROS directory index

# ROS execution commands

---

command	importance	Command description	Detailed description
roscore	★★★	ros+core	<ul style="list-style-type: none"><li>- master (ROS name service)</li><li>- roscout (record logs)</li><li>- parameter server (Manage parameters)</li></ul>
roslaunch	★★★	ros+run	Run the Node
rosclean	★★☆	ros+launch	Run multiple nodes with options
rosclean	★★☆	ros+clean	Check or delete ROS log files

# ROS information commands

command	importance	Command description	Detailed description
<b>rostopic</b>	★★★	ros+topic	Check ROS topic information
<b>rosservice</b>	★★★	ros+service	Check ROS service information
<b>roscall</b>	★★★	ros+node	Check ROS node information
<b>rosparam</b>	★★★	ros+param(parameter)	Check and modify ROS parameter information
<b>rosbag</b>	★★★	ros+bag	ROS message recording, playback
<b>rosmmsg</b>	★★☆	ros+msg	Check ROS message information
<b>rossrv</b>	★★☆	ros+srv	Check ROS service information
<b>rosversion</b>	★☆☆	ros+version	Check ROS Package, Release Version Information
<b>roswtf</b>	☆☆☆	ros+wtf	ROS System Inspection

# ROS catkin commands

---

command	importance	Detailed description
catkin_create_pkg	★★★	Automatically generates a package
catkin_make	★★★	Builds based on the Catkin build system
catkin_eclipse	★★☆	Converts the package created by the Catkin build system for Eclipse
catkin_prepare_release	★★☆	Log cleanup and version tagging for release
catkin_generate_changelog	★★☆	Creates or Updates the CHANGELOG.rst file for release
catkin_init_workspace	★★☆	Initializes the workspace of Catkin build system
catkin_find	★☆☆	Search catkin



# ROS package commands

---

command	importance	Command description	Detailed description
<b>rospack</b>	★★★★	ros+pack(age)	Displays information related to the ROS package
<b>roinstall</b>	★★★☆☆	ros+install	Installs additional package for ROS
<b>roscdep</b>	★★★☆☆	ros+dep(endencies)	Installs dependency files for the package
<b>rosllocate</b>	☆☆☆☆	ros+locate	Acquires information regarding ROS package
<b>roscrcreate-pkg</b>	☆☆☆☆	ros+create-pkg	Automatically generates ROS package (used in old rosbuilt system)
<b>rosmake</b>	☆☆☆☆	ros+make	Builds the ROS package (formerly used by the rosbuilt system)

---

# Question Time!

---

# Advertisement #1



Free



Download link



Language:

English, chinese, Japanese, Korean



“ROS Robot Programming”

A Handbook is written by TurtleBot3 Developers

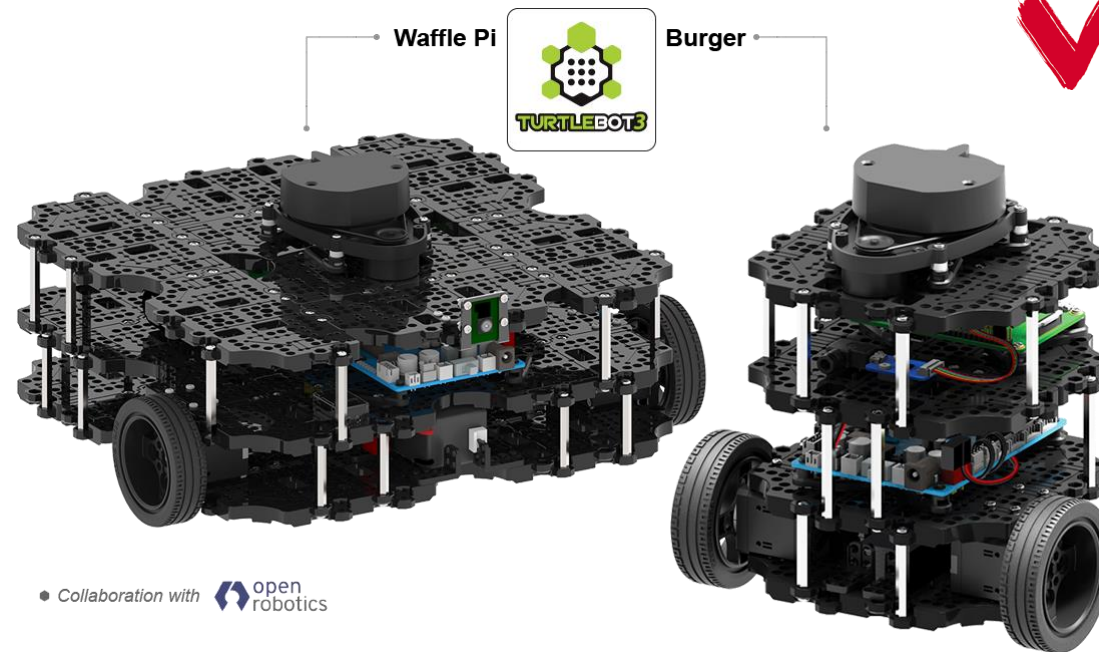
## Advertisement #2

# TURTLEBOT3

AI Research Starts Here  
ROS Official Platform

**TurtleBot3 is a new generation mobile robot that's modular, compact and customizable. Let's explore ROS and create exciting applications for education, research and product development.**

✓ [Direct Link](#)



## Advertisement #3



[www.robotsource.org](http://www.robotsource.org)

The 'RobotSource' community is the space for people making robots.

We hope to be a community where we can share knowledge about robots, share robot development information and experiences, help each other and collaborate together. Through this community, we want to realize open robotics without distinguishing between students, universities, research institutes and companies.

Join us in the Robot community ~

END.