A Gentle Introduction to ROS

ROS (Robot Operating System) is rapidly becoming a de facto standard for writing interoperable and reusable robot software. This book supplements ROS's own documentation, explaining how to interact with existing ROS systems and how to create new ROS programs using C++, with special attention to common mistakes and misunderstandings. The intended audience includes new and potential ROS users.

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Installing ROS
Writing ROS programs
Publishing and subscribing
Generating log messages
Using launch files
Setting parameters
Calling services
Recording messages