Abstract

The application of the cloud computing concept to robots is called Cloud Robotics. It is a
Cloud Robotics using ROS

concept that utilizes the services of the cloud so that robots can have learning abilities. Since applications for Cloud Robotics have to be developed in a platform, majority of the cloud application developers choose ROS for it. Robot Operating System (ROS) is an open source middleware that has a collection of inter-programming language headers to allow the sharing of data between independent programs. ROS provides a graph-like structure for cloud robotics. A new library for ROS that is a pure Java implementation, called rosjava, allows Android applications to be developed for robots. Since Android has a booming market and billion users, it would be a huge leap in the field of Cloud Robotics.

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**Index Terms**

Computer Science  
Cloud Robotics

**Keywords**

Cloud Computing (cc)  
Cloud Robotics (cr)  
Personal Robot (pr) 2  
Robot Operating System (ros)