

Abstract – *These project proposed the architecture for cloud robotics which includes three subsystems in cloud computing environment: Middleware subsystem, Background Tasks Subsystem, Control Subsystem. It can implement in open or private cloud computing environment. Since the architecture is looking for reliable, scalable and distributed computing environment for the heterogeneous large-scale autonomous robots, IaaS is chosen as a service in cloud. Three major tasks can be handle by the architecture Computing, Storage and Networking. Hadoop – MapReduce provides the appropriate framework in cloud to process and handle these three tasks. In the architecture, Robotic Operating System (ROS) has been used as the powerful developer tools to build robot applications.*

Results: Please find the some of the results as the following YouTube links:

- Connect Quad-Copter through ROS and get the information to control and analyse (Velocity, acceleration, video info ...): <https://youtu.be/hGEo5Vp70QM>
- Video recording with Quad-Copter: <https://youtu.be/Od9yjpjraEk>