

THE ICUB HUMANOID ROBOT
PROGRESS REPORT

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Description of Study

Developing applications on YARP platform for iCub Cognitive Robot and understanding cognitive approach to the robotics. Writing programs by browsing example codes and tutorials from official page.

Current Progress

- ✓ Successfully installed YARP and iCub applications
- ✓ Solved dependency and platform specific executable problems
- ✓ Investigated another implementations
- ✓ Browsed source code repositories
- ✓ Browsed example codes, articles and demonstration videos
- ✓ Readings : A Roadmap for Cognitive Development in Humanoid Robotics
- ✓ Developed example applications and simulated them on simulation environment
- ✓ Documenting developed applications

Problems

- × Lack of developer documentation
- × Still missing dependencies
- × Complex program structures makes it difficult to understand
- × Lack of programming and problem solving support for iCub
- × Hardware specific driver problems
- × Simulation works slow on some machines requires high CPU performance
- × Hard to debug errors