

Persian-Gulf

Robot Specifications for RoboCup 2009

The Robots

- ✦ Robot system: Robotis Bioloid kit
- ✦ Robot names: Arash, Omid

Robot specifications

- ✦ Height: 45 cm
- ✦ Weight: ~ 2.2 kg
- ✦ Number of degrees of freedom: 20
 - Head: 2
 - Arms: 3 each
 - Legs: 6 each
- ✦ Walking Speed: ~15 cm/sec

Computing Unit

- ✦ Main Processor : CM-5
- ✦ 2nd Processor : AVR Microcontroller

Vision

- ✦ Embedded Vision module: Havimo

Actuators

- ✦ ROBOTIS Dynamixel AX-12
- ✦ Torque: ~ 16.5 kgf.cm
- ✦ Speed: ~ 0.196 s / 60 degree
- ✦ Voltage: ~ 12 V

Sensors

- ✦ 2-Axis Accelerometer

Other specifications

- ✦ Power Supply: 3x Lithium-Polymer (11.1 V)

