

Team RoBIU Robot Specifications Paper



Autonomous humanoid robot DARwIn-OP

Height:	45.5cm
Weight:	2.8kg
Walking Speed:	40cm/sec
Degrees of Freedom:	20; 6 in each leg, 3 in each arm and 2 in the head
Motors:	Robotis Dynamixel RX-28M
Sensors: Camera Accelerometer	Camera 2MP HD Logitech C905 Gyroscope ST Microelectronics LYPR540AH, 3 axes Analog Devices ADXL335, 3 axes
Sub Controller: Processor: Speed:	ST Microelectronics CM-730 ARM CortexM3 32-bit 72MHz
Main PC: Processor: RAM Processor in test: RAM in test: Operating System: LAN: WLAN: Mass storage: Mass storage in test:	CompuLab fit-PC2i Intel Atom Z530 1.6 GHz 1 GB DDR2 Intel i5 Haswell 64-bit 2.6GHz 4 GB DDR3 Linux Ubuntu v13.10 Gigabit Ethernet 802.11b/g/n WiFi 4 GB flash SSD 30 GB flash SSD