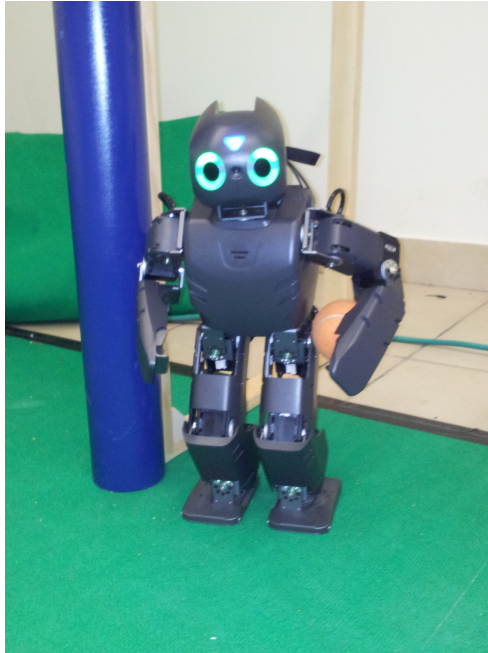


Team RoBIU Robot Specifications Paper



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	2MP HD Logitech C905 Camera
Gyroscope	ST Microelectronics LYPR540AH, 3 axes
Accelerometer	Analog Devices ADXL335, 3 axes
Sub Controller:	ST Microelectronics CM-730
Processor	ARM CortexM3 32-bit
Speed	72MHz
Main PC:	CompuLab fit-PC2i
Processor	Intel Atom Z530 1.6 GHz
RAM	1 GB DDR2
Operating System	Linux Ubuntu v10.10
LAN	Gigabit Ethernet
WLAN	802.11b/g/n WiFi
Mass storage	4 GB flash SSD