

AUTMan Humanoid Kid-Size Team Specification Paper

<RoboCup 2011 Humanoid Kid-Size Robot League>

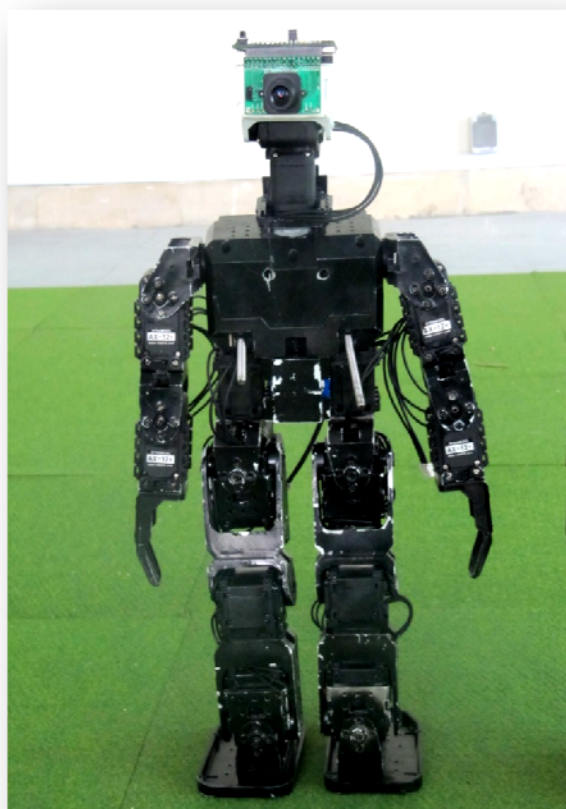
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All three robots have the same specs, and are based on the Bioloid robot kit produced by RobotisInc. Korea.

Robot Name: *AUTMan I*

Specification:



Height	42 Cm
Weight	2.4 Kg
Walking speed	9 Cm/s
Degrees of Freedom	20 in total with 6 in each leg, 3 in each arm, 2 in the neck
Type of motors	14 Robotics AX-12 6 Robotics RX-18
Sensors	
Camera	cmucam3
Resolution	352x288 pixels
Color Space	RGB
Frame Rate	26 FPS
Angle	Horizontal viewing angle is 48° Vertical viewing angle is 38°
Accelerometer	ADXL330, 3 axis analog accelerometer sensor
WiFi module	H-WiFi module bases on HED's AirQuickTM
Computing unit(s)	Vision Board ARM 7 Motor controller Atmel AVR ATmega 128