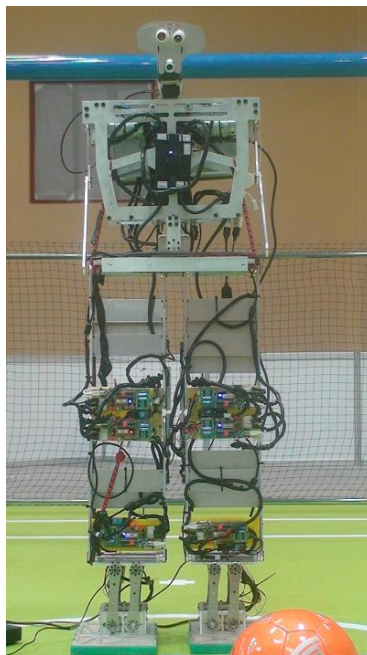


Team Description Paper: HuroEvolution^{AD} Humanoid Robot for Robocup 2012 Humanoid League

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Specification

ROBOT Name	HuroEvolution ^{AD}	
Height of Robot	135 cm	
Weight of Robot	20 kg	
Walking Speed	Maximum: 5 cm/s	
Type of motor	RX-28(Servo motor)	EX-106(Servo motor)
Torque	28.3kg/cm~ 37.7kg/cm	84kg/cm~ 106kg/cm
Speed	0.126 sec/60°	0.143 sec/60°
Degree of freedom	18 With Leg: 5 x 2 (EX-106 Servos) Arm: 3 x 2 (EX-106 Servos) Head: 2 (RX-28 Servos)	
Computing unit	PICO820 (Single Board Computer) Processor: Intel® ATOM™ processor Z530 Operating System: Windows XP	
Motion Controller	AVR ATmega1281	
Camera	DFM 22BUC03-ML Frame rate: 90fps Total Picture Element 640 (H) x 480 (V)	
Batteries	1 x Li-Fe 24V 6900mAh	
Accelerometer	ADXL345	