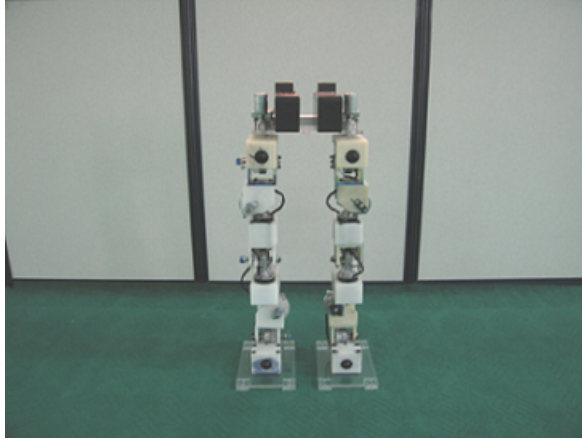


Technical Questionnaire

Team name: Iran Fan Avaran

■Image of the robot



■Name of robot: Dara

■Height: 140 cm

■Weight: almost 23 kg

■Walking speed (careful walking): 0.5 km/h

■Running speed (fast walking): 2 km/h

■Actuators used:

1. DC geared motor with some changes

Manufacturer: GIL Geared motor

Model: G35GM-656-H20270

Torque: 8.5 NM

Speed: 40 RPM

2. DC geared motor, motor wiper

Manufacturer: Toyota Motor Corporation

Model: 5120 0804 / Asmo 859050-2691

Torque: 12 Nm Max

Speed: 80 RPM Max

3. Stepping motor

Manufacturer: Pamagawa-Seiki co.

Model: TS3103N247

Torque: 5 kg-cm

■Sensors used:

1. CCD Camera:

Manufacturer: Panasonic

Model: MTV-54b0n

Resolution: 0.26 Mp

Frame rate: 20 frame per second

2. Potentiometers:

Manufacturer: Bourns, Mexico

Model: 81B1DB20-A13

3. Force sensing resistor

Square type

■ Processing boards used:

1. PC 104

Manufacturer: Advantech

Model: PCM3370

Processor: Pentium III

Speed: 933 MHz

2. DSP board

Manufacturer: Iran Fan Avaran Robotic Group

Processor: TMS320vc549 DSP, Texas Instrument

Speed: 100 MIPS at 100 MHz

3. AVR local processor boards

Manufacturer: Iran Fan Avaran Robotic Group

Processor: ATmega64 AVR, Atmel

Speed: 16 MIPS at 16 MHz