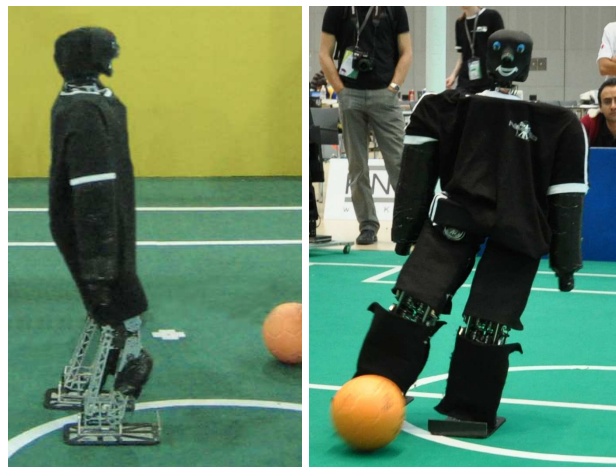


# NimbRo TeenSize Robot Data Sheet

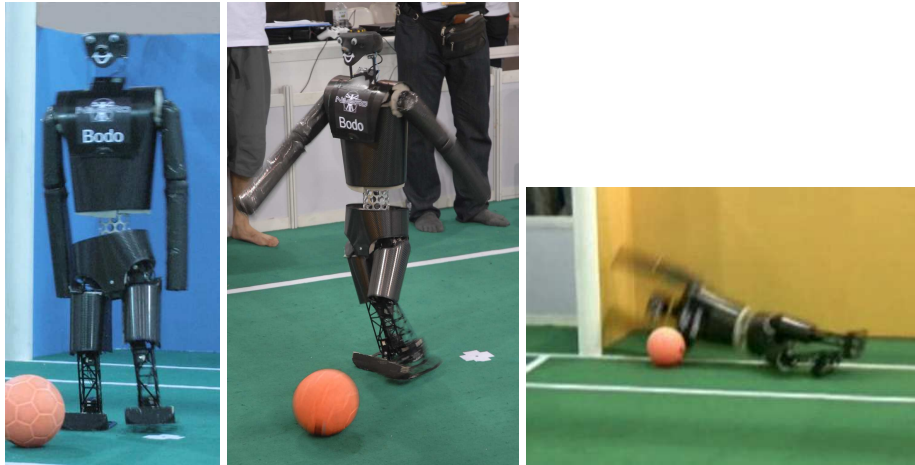
Sven Behnke and Marcell Missura

Rheinische Friedrich-Wilhelms-Universität Bonn  
Computer Science Institute VI: Autonomous Intelligent Systems  
Römerstr. 164, 53117 Bonn, Germany  
{ behnke | missura } @ ais.uni-bonn.de  
<http://www.NimbRo.net>



**Fig. 1.** NimbRo TeenSize robot Dynaped.

- **Robot name:** Dynaped
- **Number of degree of freedom:** 13 DOF: 5 per leg, 1 per arm, 1 head pan
- **Type of motors:** Robotis Dynamixel EX-106 and RX-64
- **Computing unit:** Sony VAIO UX1XN ultra mobile PC, Intel 1.3GHz Core Solo
- **Walking speed:** up to 40cm/s, omnidirectional walking
- **Cameras:** WVGA USB2.0 camera IDS uEye UI-1226LE with wide-angle lens
- **Sensors:** dual-axis accelerometer (ADXL203,  $\pm 1.5g$ ) and two gyroscopes (ADXRS,  $\pm 300^\circ/s$ )
- **Other specs:** size: 105cm, weight: 7kg.



**Fig. 2.** Nimbro TeenSize robot Bodo.

- **Robot name:** Bodo
- **Number of degree of freedom:** 14 DOF: 6 per leg, 1 per arm
- **Type of motors:** Robotis Dynamixel RX-64 and DX-117
- **Computing unit:** Sony VAIO UX1XN ultra mobile PC, Intel 1.3GHz Core Solo
- **Walking speed:** up to 20cm/s, omnidirectional walking
- **Cameras:** WVGA USB2.0 camera IDS uEye UI-1226LE with wide-angle lens
- **Sensors:** dual-axis accelerometer (ADXL203,  $\pm 1.5g$ ) and two gyroscopes (ADXRS,  $\pm 300^\circ/s$ )
- **Other specs:** size: 103cm, weight: 5kg.