Fig. 1. TeenSize robot NimbRo-OP.

- **Robot name:** NimbRo-OP
- **Number of degrees of freedom:** 20 DOF: 6 per leg, 3 per arm, 2 head pan-tilt
- **Type of motors:** Robotis Dynamixel MX-106 and MX-64
- **Computing unit:** Zotac Zbox nano XS PC, Dual-Core AMD 1.65GHz
- **Walking speed:** TBD, omnidirectional walking
- **Cameras:** Logitech C905 USB camera with a custom wide-angle lens
- **Sensors:** Robotis CM730 onboard three-axes accelerometer and gyroscope
- **Other specs:** size: 95cm, weight: 6.6kg.
Robot name: Copedo

Number of degrees of freedom: 17 DOF: 5 per leg, 3 per arm, 1 head pan

Type of motors: Robotis Dynamixel EX-106+, EX-106, RX-64, and RX-28

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, ±1.5g) and two gyroscopes (ADXRS, ±300 °/s)

Other specs: size: 114cm, weight: 8kg.
- **Robot name**: Dynaped
- **Number of degrees 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, ±1.5g) and two gyroscopes (ADXRS, ±300 °/s)
- **Other specs**: size: 105cm, weight: 7.5kg.