



Kawada Robotics HRP-2

Two human size humanoid robots in a fully equipped experimental room. LAAS has a long time experience in humanoid robot motion planning and control. After having demonstrated whole-body motion generation capabilities on HRP-2, LAAS is now developing new algorithms to enable physical interaction of humanoid robots with their environment and with humans. The new robot robot Pyrène constructed by Pal Robotics based on the experience of LAAS is powerful and designed to be torque controlled.

Key Features

- Large experimental room reproducing parts of the environment of an industrial site. The experimental area is fully covered by MOCAP
- Advanced motion-planning and motion-generation software

Possible Applications

- Motion planning
- Humanoid robotics and biomechanics
- Whole-body motion generation
- Factory of the future
- Physical interaction



Access information

Corresponding infrastructure	Centre national de la recherche scientifique The Department of Robotics of LAAS
Location	7 Avenue du Colonel Roche, 31400 Toulouse, France
Unit of access	Working day

Technical specifications

Speed	walking speed max 2km/h
Vision	RGBD
DoF	30
Height	1.54m
Sensors	6-axis IMU in the trunk, force sensors at feet and wrists

Additional information

Additional example of applications may be found [here](https://www.laas.fr/public/en/robots-platform)
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