igus humanoid wins the first RoboCup Design Award

A joint project involving the University of Bonn and the Cologne plastic experts impressed the judges in the Chinese city of Hefei

The 'NimBro' team from the University of Bonn and motion plastics specialist igus celebrated victory in the inaugural RoboCup Design Award. The two partners worked together to develop a football-playing humanoid, which is protected against falls by its abrasion-resistant outer elements. Not only this, but it is also able to stand up again of its own accord. One of the many areas in which the humanoid impressed during the competition was that of seamless interaction between humans and robots. This success follows on from the partnership's victory in the RoboCup Football World Cup in 2012.

In late July 2015, the robot developer Flower Robotics Inc. in Hefei, China, organised the inaugural RoboCup Design Award within the scope of the RoboCup 2015. The aim was to sharpen the engineers' awareness and mindset in relation to humanoid design. However, the award did not focus so much on the design itself as on the simplicity of the system during use and repairs, as well as the conveyance of identity. The igus humanoid impressed in these areas. The robot's exterior and load-bearing parts were made using laser-sintering. According to Tutsuya Matsui, CEO of Flower Robotics, the judges were impressed by the fact that not only the design but also the manufacturing and servicing of the robot would be suitable for potential mass production.

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ABOUT IGUS:

igus GmbH is a globally leading manufacturer of energy chain systems and polymer plain bearings. The Cologne-based family business has offices in 36 countries and employs around 2,700 people around the world. In 2014, igus generated a turnover of 469 million euros with motion plastics, plastic components for moving applications. igus operates the largest test laboratories and factories in its sector to offer customers quick turnaround times on innovative products and solutions tailored to their needs.

Captions:

Image PM3215-1

The 'NimBro' team from the University of Bonn celebrated victory in the inaugural RoboCup Design Award in cooperation with the motion plastics specialist igus (Source: University of Bonn)

Image PM3215-2

The judges were impressed by the fact that not only the design but also the manufacturing and servicing of the robot would be suitable for potential mass production (Source: University of Bonn)

Image PM3215-3

The success with the RoboCup Design Award follows on from the partnership's victory in the RoboCup Football World Cup in 2012 (Source: University of Bonn)