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# Robots with Knives?! Maybe your Safest Pal

POSTED BY WILLIAM ON MAY - 11 - 2010



Sami Haddadin, the study's lead author, who was clearly confident in the collision-detection system he devised.

Attack of the robots.... and with knives too! Aahhh (run!!!)

It's like robots in the movies are coming to reality. It may sound stupid, but when we think of robots carrying some sharp tools, (for what?), it will drive us crazy, thinking they might run out of control and become like killing machines.

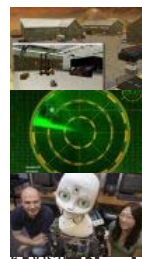
Oh, no but not these robots here who were the subjects of the Collision Detection Study from the [Institute of Robotics and Mechatronics](#),

part of DLR, the German aerospace agency, in Wessling, Germany.

The researchers, headed by Sami Haddadin demonstrated how "his" robot was literally safe even if it would accidentally bump into human "flesh" during an activity, like in the kitchen, in a hospital or even in a car industry or whatsoever.

The German researchers set out to do a set of experiments, namely, puncturing, stabbing and cutting (see video) to determine the accuracy of the collision detection of the robots.

The robot was armed with various sharp tools (scalpel, kitchen knife, scissors, steak knife, and screwdriver) and integrated with a collision detection program to perform these different striking activities. They've used a piece of silicone block, a pig's leg, and at a final demo, a human bare arm as test surfaces.



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