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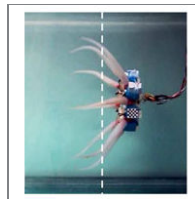| OSIDAYS 2014 |

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'Sculling' Inspires Creation Of Robot Octopus

EFYTimes News

A research team in Europe is working on a robot version of the octopus that can actually swim.

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Thursday, May 23, 2013: Octopi are considered as strong swimmers as they are blessed with 8 tentacles that help them perfect the art of swimming. However, you would be surprised to know that they use an unusual technique known as sculling, which requires synchronised movement of all eight limbs for swimming.

Scientists seem to have been fascinated with octopi, especially with their swimming technique. A recent report indicates that a research team in Europe is working on a robot version of the octopus. That's true! The scientists are planning to introduce a new swimming robot and are quite hopeful of recreating the movement within a water tank. The idea seems to be governed by various experiments held recently, which indicate that some of the artificial gaits yield much smoother movements and that may make more sense for "octopus-inspired robots".

The report titled as "Octopus-inspired Eight-arm Robotic Swimming by Sculling Movements," by Michael Sfakiotakis, Asimina Kazakidi, Nikolaos Pateromichelakis, and Dimitris P. Tsakiris from the Foundation for Research and Technology, in Hellas, Greece, was presented in the beginning of this month at the IEEE International Conference on Robotics and Automation (ICRA) in Karlsruhe, Germany.

As of now, the team has reported some level of success, but let's hope that sooner or later they will be able to replicate the sculling technique used by wild to create Robot Octopus.

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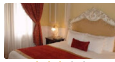
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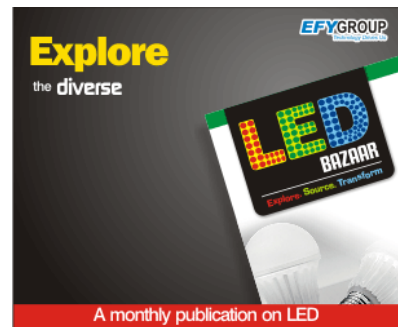Pool too small to swim laps? Check out resistance swimming

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