

Watch the ingenious robot hand catch a jellyfish without injuring it

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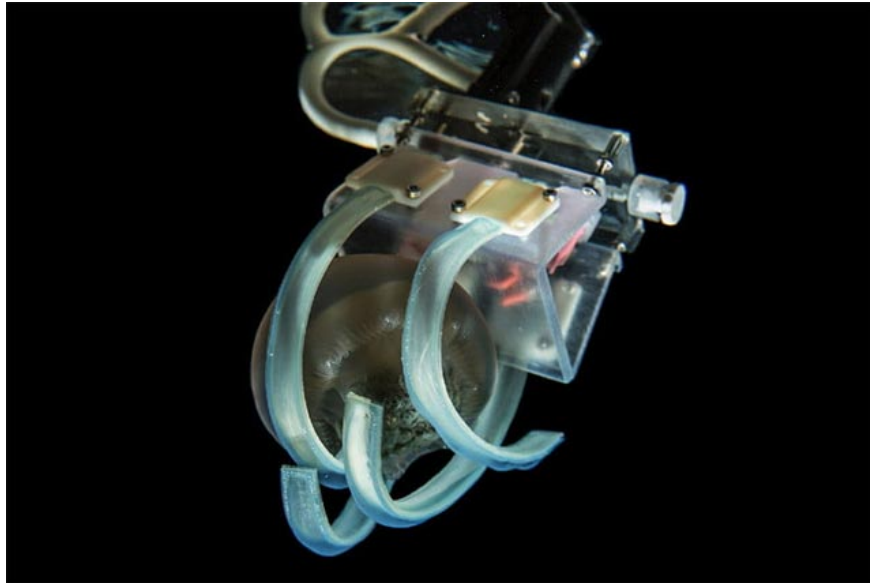
There is a revolution in the field of manufacturing robots with comprehensive changes in materials. Many modern robot models today are designed and built using safe, soft materials, making it easy to perform jobs that require a high degree of lightness and dexterity.

But how is soft enough? According to a new experiment conducted by scientists at the American Museum of Natural History, New York University and Harvard University, a cleverly manipulated robot made of soft enough material will be able to hold tightly. a jellyfish without causing any harm to it.

Why jellyfish, not any other animal? Jellyfish have always been an excellent test target because they've been so fragile and vulnerable to even small external forces. In the latest experiment, the researchers used a soft robotic arm with gentle fingers, which looked like 'noodles' to capture this slippery and delicate marine creature. As a result, the jellyfish was easily 'grabbed' without any physical damage.

'This success opens up a huge potential in the application of sophisticated robotic arms and hands from soft materials in high-skilled jobs such as surgical assistance and easy-to-research subjects. physical damage, 'said Dr. Michael Tessler, a graduate student at the American Museum of Natural History.

While not causing bodily harm, this is not yet to be concluded whether the object feels uncomfortable or not. Jellyfish don't have pain receptors or central nervous system, which means they won't be able to feel anything, but for most other species. The researchers analyzed the genome to see how there were changes in the animal's body when it was captured by the robot's hand. The analysis process shows that the animal feels less stressed than when caught by hard objects.



At the next stage, the team plans to integrate ultra-light robotic fingers with many other advanced technologies, such as DNA scans, to perform more complex tasks, such as 'medical checks'. 'for marine life right under the water without hurting them.

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