

Robotic Hand for Grasping and Dexterous Manipulation

Published date: Jan. 10, 2013

Technology description

A two-fingered robotic hand was designed that achieves the challenge of stable grasping and dexterous manipulation with only two motors and two 3-state valves. The simple design incorporates pockets of granular material in the fingertips, each of which is controlled by a separate motor. Multiple precision and power grasps, all six basic dexterous manipulations, and the demonstration of real-world grasping and dexterous manipulation are all achieved with this novel design, indicating that challenging robotics problems may be solved with much less hand complexity than previously believed.

Application area

robotic gripper
prosthetic device

Advantages

simplicity
dexterity
stability
flexibility

Institution

[Cornell University](#)

Inventors

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