



ISTITUTO ITALIANO  
DI TECNOLOGIA

## TITLE

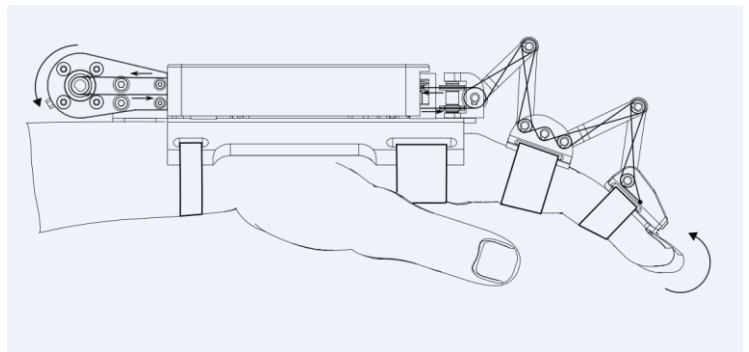
Esoscheletro Sottoattuato Bi-Direzionale

## INVENTORS

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## DESCRIPTION

The device consists in a wearable, lightweight and bidirectional underactuated hand exoskeleton, conceived for empowerment of healthy subjects or rehabilitation for impaired ones. The underactuated structure makes the exoskeleton, and consequently the hand of the assisted user, adapt to the grasped object. Therefore, as said before, the device is eligible for assistance; moreover, it is suitable for rehabilitation, as it is actuated in both directions.



## APPLICATIONS

Wearable Robotics, Robotics, Hand rehabilitation

## KEYWORDS

Hand exoskeleton, underactuated, bidirectional, sEMG-driven, tendon-driven.

## BIBLIOGRAPHIC DATA

Bidirectional underactuated hand exoskeleton

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