



ISTITUTO ITALIANO  
DI TECNOLOGIA

## TITLE

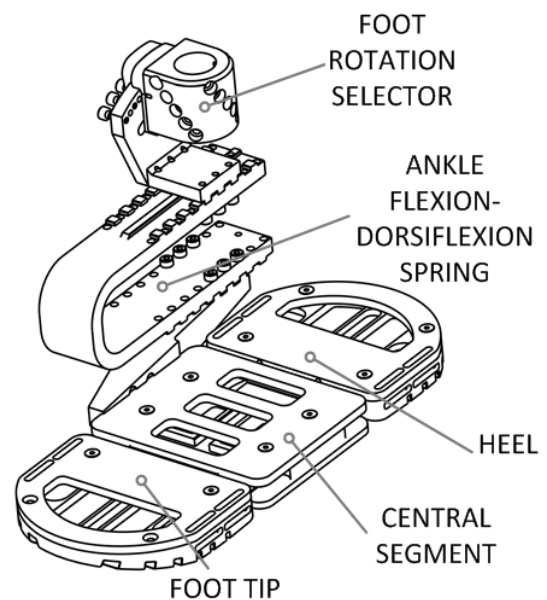
Piede per esoscheletro robotico per la deambulazione assistita di soggetti affetti da deficit locomotori

## INVENTORS

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## DESCRIPTION

The invention consists in a flexible sensorised footsole for lower limb orthotic/prosthetic devices or humanoid robots. Its purpose is to exploit its flexibility to replicate a more human-like gait, absorb the shock at the impact during the landing phase or deflect during toe-off, or yet deform accordingly with any interaction with the environment or the wearer in case of a wearable robot. The sole is also sensorised to measure the interaction force.



## APPLICATIONS

Rehabilitation, humanoid robotics

## KEYWORDS

Footsole, leaf-springs, wearable, robot, sensorised, foot, shock absorber

## BIBLIOGRAPHIC DATA

Sensorized foot for robotic/exoskeleton applications

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