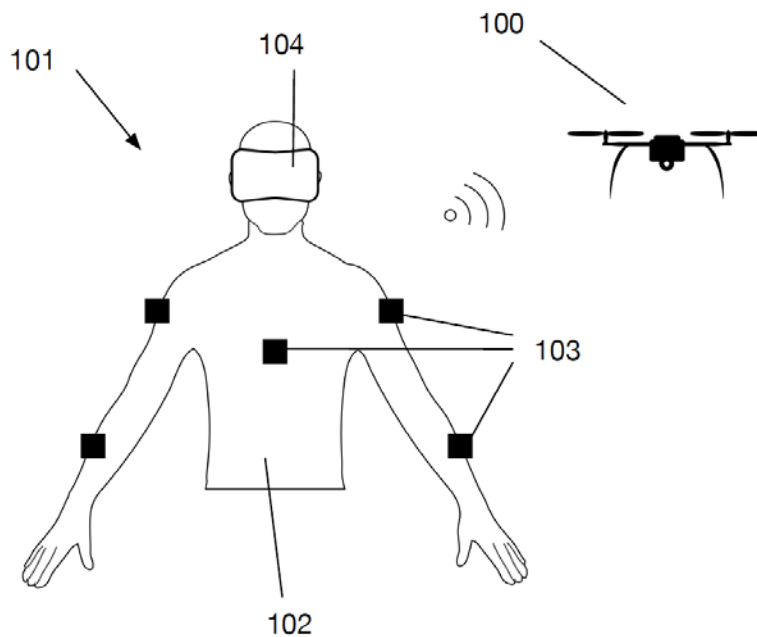


Intuitive teleoperation



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Keywords

Teleoperation, robots, drone, AR/VR

Intellectual Property

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Publications

PNAS July 31, 2018 "Data-driven body-machine interface for the accurate control of drones"

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Wearable remote controller that learns how the user wants to control a distal Robot: example of sensor configuration on the body of an operator according to the invention, in which a first-person view as visual feedback is provided through a head-mounted display

Description

The teleoperation of robots can be challenging with current control interfaces, which rely on mappings between the operator's and the robot's actions.

The invention relies on a wearable remote controller that learns how the user wants to control a distal Robot.

The invention provides an intuitive, gesture-based control interface for real and simulated robots, which outperform a standard joystick in terms of learning time and steering abilities.

Advantages

- Intuitive and personalised control
- Precision and reactivity compared to standard solutions

Applications

- Robots, unmanned aerial vehicles/drones
- Gaming

Offering

Licensing and collaboration