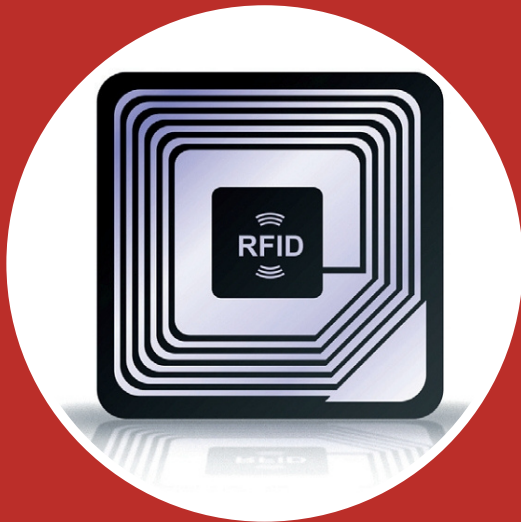


PORTABLE TRACKING SYSTEM FOR INDOOR

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Using the **RFID technology**, an innovative reader allows to discern whether a person is standing, sitting, or has fallen, with a precision of few centimeters. This feature might greatly enhance the monitoring of elderly/non self-sufficient people that can be performed seamlessly.

Protection: Italy

Inventors: Alessandra Costanzo, Diego Masotti, Giacomo Paolini

INVENTION

The patented device is a new RF reader that can be controlled remotely via PC and embedded in any objects used in everyday life by people to be monitored. Using Radio Frequency Identification technology (RFID), it enables **tracking and locating in 3D objects and/or people** wearing a RFID tag. This technology is particularly proper for monitoring elderly or disabled at home or long-term care facilities. For scanning purpose, the reader employs a four-element antenna system in order to localize tags in azimuthal and elevation planes. Hence, it is possible to track who wears the tag in indoor environments and also to provide information regarding the height at which the RFID tag is located.

ADVANTAGES

- No need to anchor nodes;
- Dehospitalization;
- Saving for healthcare.

APPLICATIONS

- Hospital;
- Care facilities.

CONTACTS

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