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Identification and distance estimation of users and objects by means of electronic beacons in social robotics

Fernando Alonso-Martín, Alvaro Castro-González, María Malfaz, José Carlos Castillo, Miguel A. Salichs

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#### ACCEPTED MANUSCRIPT

### Highlights

- Using Bluetooth Low Energy beacons in social robots for human-robot interaction.
- Reliable, simple, and cheap identification and distance estimation of user-s/objects.
- Integration of Bluetooth Low Energy technology in a multimodal interaction system.
- A case study shows the benefits of the proposed system.

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