System for the communication of symbols belonging to a tactile sign language and related method

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Invention

The present invention is in the field of localization and support for the "intelligent" navigation of people in closed environments. It is particularly aimed at blind or visually impaired people and it is a remarkable implementation in terms of accuracy and integrability compared to other solutions on the market.

This invention concerns the localization and support for smart navigation in enclosed spaces.

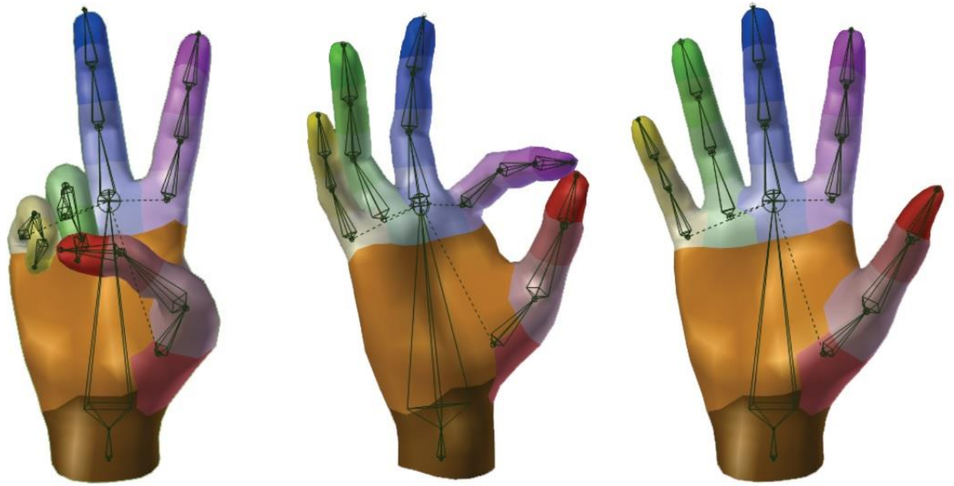
It is aimed at blind or visuallly impaired people and is a remarkable implementation in terms of accuracy and integrability of different signals compared to other solutions already on the market.

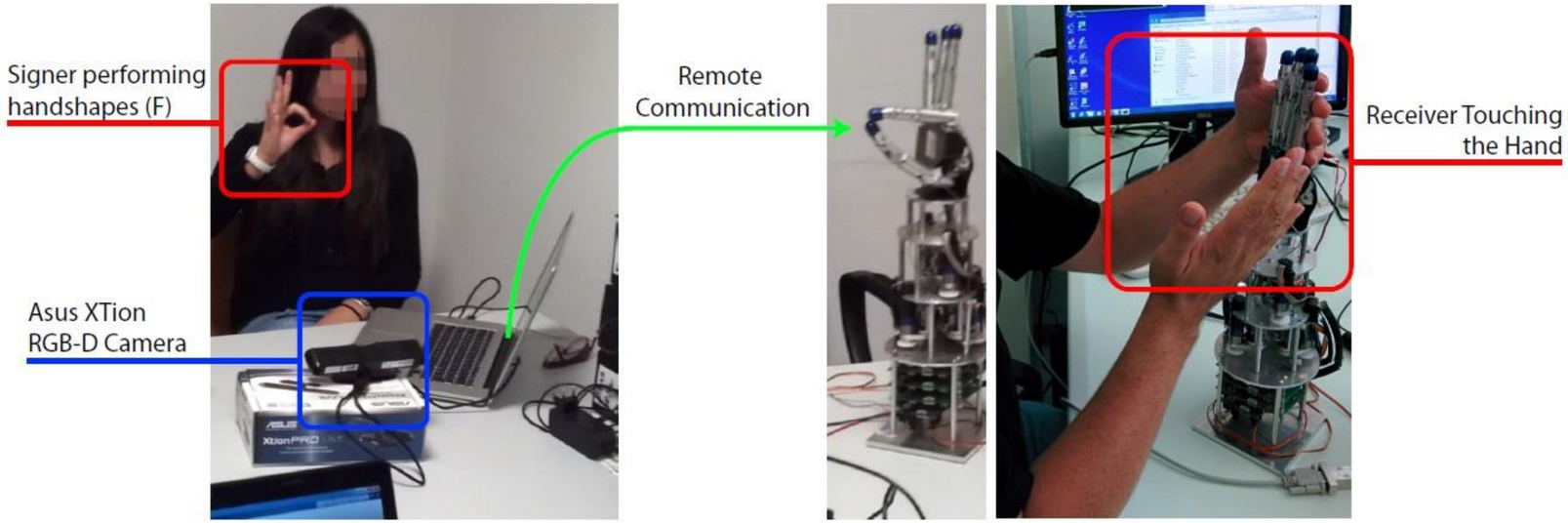
The following solution, conversely, allowed the motion in confined spaces without the need for maps or other tools for pre-instruction of the system. Spatial identifying information of a RFID tag is converted and perceived by the end user in the form of auditive and vibrotactile stimuli.

The main advantages of this technology are:

- Use in large spaces at reduced costs
- Higher accuracy in respect to the marketed solutions
- Higher integrability
- Navigation free from constraints without the need for previously agreed maps annd routes.

Drawings & pictures





Industrial Applicability

The fields of application are:

- Medical device for blind or visually impared people
- Navigation and motion of blind people
- Disastered or hard environment
- Motion in unknown space and environment

Possible developments

The research group is interested in obtaining industrial collaborations aimed at increasing the technological maturity of the present invention or industrial partners interested in taking the license of the technology object of this patent.

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