Humanoid Robots for Engaging Cognitive Training

Fabio Paternò
CNR-ISTI, HIIS Laboratory, Pisa, Italy

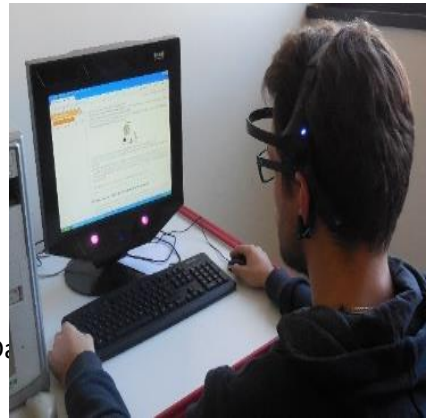
fabio.paterno@isti.cnr.it

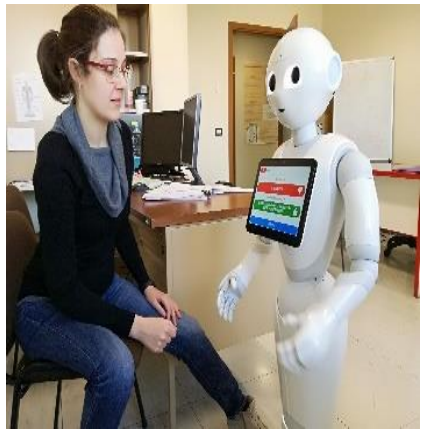
Who We Are

Public research laboratory specialised in designing, implementing, and evaluating interactive ICT solutions with the aim to improve their accessibility, usability, and user experience

We have experience and results in: Assistive Technologies and Accessibility, Context-dependent IoT Applications, Emotion-based User Interfaces, End-User Development, Human-Robot Interaction, Multimodal User Interfaces, Tools for Accessibility and Usability Evaluation

We have already actively participated in AAL projects: **PersonAAL** http://www.personaal-project.eu/ and **PETAL** http://www.aal-petal.eu/





Project idea

We are interested in a project on humanoid robots for engaging cognitive training for older adults

Humanoid robots are characterized by the possibility of supporting several interaction modalities such as head, body, hand and arm movements, as well as sounds and coloured leds positioned on shoulders and eyes

We have already carried out some tests with promising results in terms of their acceptance and ability to engage older adults

Design, develop, and assess in some trials a set of applications, which can exploit humanoid robots for supporting older adults, and compare them with other technologies

Looking for

We look for:

Companies interested in either:

- Developing robot applications;
- Identifying business uses cases in this area;
- Providing support for reliability, security, and privacy in the proposed solution
- Implementing intelligent support for adaptive robot behaviour

Organizations specialised in the older adults care interested in:

- Collaborating in the design of humanoid-based robot support for older adults
- Organising user trials for assessing the impact of the robot support and compare it with other solutions