

IS abstracts



IS1 Redefining robot based technologies for elderly people assistance: a survey.

Luigi Pagliarini ^{1,2}, Henrik Hautop Lund ¹

(¹ Technical University of Denmark, Denmark, ² Academy of Fine Arts of Macerata, Italy)

We analyse the state of the art of hi-tech and robot based technologies in terms of Assistive Technology for all patients and, in particular, elderly people assistance and everyday activities aid. By focusing on different aspects and characteristics (such as *playfulness*, *invasiveness*, *learning-speed*, *efficiency*, *short and long-term effect*, *active vs. passive*, *etc.*) we show the most important existing examples, and highlight all the factors that might help researchers when developing technologies for elderly care. Decades of research have not yet declared what the optimal HMI is, in such context. Since there is an urgent need to clarify how various technologies can be a goal or an approach for preventive, rehabilitative and assistive interaction, we try to make a first step towards a redefinition of Robotics Assistive Technology.

