



Differences in stakeholders' expectations of gendered robots in the field of psychotherapy: an exploratory survey

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Abstract

In the present study, qualitative and quantitative studies were conducted to explore differences between stakeholders in expectations of gendered robots, with a focus on their specific application in the field of psychotherapy. In Study I, semi-structured interviews were conducted with 18 experts in psychotherapy to extract categories of opinions regarding the use of humanoid robots in the field. Based on these extracted categories, in Study II, an online questionnaire survey was conducted to compare concrete expectations of the use of humanoid robots in psychotherapy between 50 experts and 100 nonexperts in psychotherapy. The results revealed that compared with the female participants, the male participants tended to prefer robots with a female appearance. In addition, compared with the experts, the nonexperts tended not to relate the performance of robots with their gender appearance, and compared with the other participant groups, the female expert participants had lower expectations of the use of robots in the field. These findings suggest that differences between stakeholders regarding the expectations of gendered robots should be resolved to encourage their acceptance in a specific field.

Keywords Humanoid robots · Gendering of robots · Expectations · Stakeholders · Experts · Psychotherapy

1 Introduction

Many studies have been conducted on the gender effects of human–robot interaction (HRI) (Nomura 2017; Kraus et al. 2018; Chita-Tegmark et al. 2019; Bernotat et al. 2021). HRI involves the characteristic of the embodiment of robots, which leads to easier assignment in regard to gender-specific properties (the so-called “gendering of robots”). On the other hand, it has recently been discussed whether the gendering of robots should be encouraged or avoided (Weiss

and Spiel 2021). In fact, several researchers have pointed out the ethical problems involved in reproducing specific gender stereotypes through the gendering of robots based on existing gender biases (De Angeli and Brahnam 2006; Weber and Bath 2007; Marchetti-Bowick 2009; Robertson 2010; Alesich and Rigby 2017).

Some existing studies suggest that gender stereotypes can be used to encourage greater acceptance of robots. Eyssel's research group at Bielefeld University conducted a series of experiments on gender stereotypes and tasks connected to robot gender (Kuchenbrandt et al. 2012; Eyssel and Hegel 2012; Bernotat et al. 2021) in which a male/female robot was expected to perform stereotypically male/female tasks. Eyssel and Hegel (2012) investigated how robot gender as presented by facial cues may be related to human gender stereotypes for traits and tasks. They found that a short-haired male robot was perceived as being more masculine than a long-haired female robot, and that stereotypically male tasks were perceived as being more suitable for the male robot. A study by Bernotat et al. (2021) in which robot gender was manipulated by body shape reported similar results. Moreover, Chita-Tegmark et al. (2019) found that human perceptions of emotional intelligence, including empathy in other humans and gendered robots, were affected by stereotypical

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