The Autonomy Levels and the Human Intervention Levels of Robots: The Impact of Robot Types in Human–Robot Interaction

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Autonomous Robot vs. Tele-operated Robot
Autonomous robot

Autonomy Level

Human Intervention Level
Tele-operated Robot

Autonomy Level

Human Intervention Level
Intelligence (5 items, Cronbach’s $\alpha = .82$)  
(Bartneck et al., 2009)

Social Presence (5 items, Cronbach’s $\alpha = .93$)  
(Heerink et al., 2008)
H1. Participants will perceive autonomous robots as more intelligent than tele-operated robots.
H2. Participants will feel more social presence to tele-operated robots than autonomous robots.
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