

Robot and older adults: perceived roles and importance

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Project 1: Older Adults' Perceptions Toward Socially Assistive Robots Questionnaire

INTRODUCTION

Socially assistive robots: robots that can assist older adults in terms of social context (Yale, n.d.).

Research question:

1. Robot socialness & user trust
2. Robot socialness & user perceived sociability
3. User trust & user perceived sociability

AIM/PURPOSE

The aim of the study is to determine older adults' perceived trust and perceived sociability on socially assistive robots, as well as their objective and acceptance in using the robot in the future.

RESEARCH METHODS

Survey design:

- REDCap: a web application for survey design/database
- 6 robot videos + 8 trust questions + 8 perceived sociability questions
- counterbalancing (order factors)
- randomly assign participants with either one of the versions

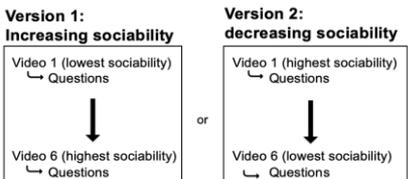


Figure 1. Simple form of the survey structure in terms of the order of the robot videos displayed.



Hollie robot



Tiago robot



Relay robot

2) Domestic Robot Acceptance by Older Adults: A Scoping Review

INTRODUCTION

- Domestic robots are robots that are designed to perform various tasks at the house, such as cleaning, cooking or other home-based activities (Malcolm, T., 2021).

Research question:

1. What is known about older adults' acceptance on domestic robots?
2. What are the common themes in the literatures?
3. What is the future direction for research on this field?

AIM/PURPOSE

The aim of the study is to determine the current depth and range of research on the topic of older adults' acceptance on domestic robots to distinguish key concepts, pattern, and future research directions.

RESEARCH METHODS

6 steps procedure for scoping reviews:

1. Determine the research question
2. Identify relevant study
3. Select study that fits the inclusion criteria
4. Data coding
5. Summarize data
6. Report result

Literature selection criteria:

- Include older adults aged 65+
- Include human interaction with domestic robots

START

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