

Targeted Self-disclosure

Equipment:

- Robot
- Camera or microphone for recording children's responses

Instructions:

Include the following conversations with the robot in the child-robot interaction session, e.g., during a “small talk” period after the primary interaction.

Set 1 (first session with the robot)

1. Tell you what, I really like telling stories. I think I'm good at telling stories because I try really hard to tell good stories.
(pause, wait 10s for child response)
2. What about you? Can you tell me things that are good about you or things you can do well?
(pause, wait 10s for child response)
3. (no response) Okay, let's talk about it next time.
(response)Wow, that's interesting.
4. Did you know, I sometimes don't know the answer to what people ask me. I'm still learning, but that embarrasses me a lot.
(pause, wait 10s for child response)
5. (if no response) What about you? Can you tell me things that you are not so good at, or things you tried but didn't go so well?
(pause, wait 10s for child response)
6. (no response) Okay, let's talk about it next time.
(response) Thanks for sharing, and don't worry. We will get better every time we try!

Set 2 (last session with the robot)

1. Tell you what, telling stories with you is really fun. I think I'm good at telling stories. I try really hard to tell good stories.
(pause, wait 10s for child response)
2. What about you? Can you tell me things that are good about you or things you can do well?
(pause, wait 10s for child response)
3. (no response) Okay, let's talk about it next time.
(response)Wow, that's interesting.
4. Did you know, I'm afraid of messing up. One time I was trying to sing a song but I forgot the words and I got it all wrong. I think I'm bad at singing.
(pause, wait 10s for child response)
5. (if no response) What about you? Can you tell me things that you are not so good at, or things you tried but didn't go so well?
(pause, wait 10s for child response)
6. (no response) Okay, let's talk about it next time.
(response) Thanks for sharing, and don't worry. We will get better every time we try!

Suggested Scoring:

Transcribe children's responses. For each question, determine the following:

- whether the child responds
 - code as binary responded (1) or did not respond (0)

- how many utterances the child makes in the response
 - count the total number of utterances
- the latency before the child's response
 - count seconds or milliseconds from the end of the robot's prompt to when the child begins speaking
- the content of the child's response
 - i.e., whether the response was on-topic, how personal was the information disclosed

Compute composite scores for the set. Sum the total number of responses made, sum the total number of utterances made, and sum the total number of personal disclosures made.

Citation:

You are free to use or adapt this measure. If you do, please cite the following paper:

Kory Westlund, J. M., Park, H. W., Williams, R., & Breazeal, C. (2017). Measuring Children's Long-term Relationships with Social Robots. *Workshop on Perception and Interaction Dynamics in Child-Robot Interaction*. [<https://sites.google.com/a/mtu.edu/rss2017-rci-perception-and-interaction/home>]