

 Export...

 Add to Marked List

◀ 1 of 1 ▶

## Investigating the Effect of Social Cues on Social Agency Judgement

By: Ghazali, AS (Ghazali, Aimi Shazwani)<sup>[1,2]</sup>; Ham, J (Ham, Jaap)<sup>[3]</sup>; Barakova, E (Barakova, Emilia)<sup>[1]</sup>; Markopoulos, P (Markopoulos, Panos)<sup>[1]</sup>

HRI '19: 2019 14TH ACM/IEEE INTERNATIONAL CONFERENCE ON HUMAN-ROBOT INTERACTION

Book Group Author(s): IEEE

Book Series: ACM IEEE International Conference on Human-Robot Interaction

Pages: 586-587

Published: 2019

Document Type: Proceedings Paper

### Conference

Conference: 14th ACM/IEEE International Conference on Human-Robot Interaction (HRI)

Location: Daegu, SOUTH KOREA

Date: MAR 11-14, 2019

Sponsor(s): Assoc Comp Machinery; IEEE; IEEE Robot & Automat Soc; ACM SIGCHI; ACM SIGAI; AAAI; Korea Tourism Org; Daegu Convent & Visitors Bur; ColorfulDaegu

### Abstract

To advance the research area of social robotics, it is important to understand the effect of different social cues on the perceived social agency to a robot. This paper evaluates three sets of verbal and nonverbal social cues (emotional intonation voice, facial expression and head movement) demonstrated by a social agent delivering several messages. A convenience sample of 18 participants interacted with SociBot, a robot that can demonstrate such cues, experienced in sequence seven sets of combinations of social cues. After each interaction, participants rated the robot's social agency (assessing its resemblance to a real person, and the extent to which they judged it to be like a living creature). As expected, adding social cues led to higher social agency judgments; especially facial expression was connected to higher social agency judgments.


### Keywords

Author Keywords: [social robotics](#); [social cues](#); [social agency](#)


KeyWords Plus: [BEHAVIOR](#)

### Author Information


Reprint Address: Ghazali, AS (reprint author)


 Eindhoven Univ Technol, Dept Ind Design, Eindhoven, Netherlands.


Reprint Address: Ghazali, AS (reprint author)

 Int Islamic Univ Malaysia, Dept Mechatron Engr, Kuala Lumpur, Malaysia.

Addresses:

 [ 1 ] Eindhoven Univ Technol, Dept Ind Design, Eindhoven, Netherlands

 [ 2 ] Int Islamic Univ Malaysia, Dept Mechatron Engr, Kuala Lumpur, Malaysia

 [ 3 ] Eindhoven Univ Technol, Dept Ind Engr & Innovat Sci, Eindhoven, Netherlands

E-mail Addresses: [A.S.Ghazali@tue.nl](mailto:A.S.Ghazali@tue.nl); [J.R.C.Ham@tue.nl](mailto:J.R.C.Ham@tue.nl); [E.I.Barakova@tue.nl](mailto:E.I.Barakova@tue.nl); [P.Markopoulos@tue.nl](mailto:P.Markopoulos@tue.nl)

### Publisher

IEEE, 345 E 47TH ST, NEW YORK, NY 10017 USA

### Categories / Classification

Research Areas: Engineering; Robotics

Web of Science Categories: Engineering, Electrical & Electronic; Robotics

[See more data fields](#)

### Citation Network

In Web of Science Core Collection

0

Times Cited

 Create Citation Alert

8

Cited References

[View Related Records](#)

### Use in Web of Science

Web of Science Usage Count

0

Last 180 Days

0

Since 2013

[Learn more](#)

This record is from:

Web of Science Core Collection

- Conference Proceedings Citation Index-Science

[Suggest a correction](#)

*If you would like to improve the quality of the data in this record, please suggest a correction.*

**Cited References: 8**Showing 8 of 8 [View All in Cited References page](#)

(from Web of Science Core Collection)

1. **A theoretical model of social influence for increasing the utility of collaborative virtual environments** Times Cited: **26**  
By: Blascovich, J.  
P 4 INT C COLL VIRT Pages: 25-30 Published: 2002
2. Title: [not available] Times Cited: **2**  
By: BROWN LV  
13 IEEE RAS INT C HU Pages: 183 Published: 2013
3. **A Persuasive Robotic Agent to Save Energy: The Influence of Social Feedback, Feedback Valence and Task Similarity on Energy Conservation Behavior** Times Cited: **7**  
By: Ham, Jaap; Midden, Cees  
SOCIAL ROBOTICS, ICSR 2010 Book Series: Lecture Notes in Artificial Intelligence Volume: 6414 Pages: 335-344 Published: 2010
4. **Social cues in multimedia learning: Role of speaker's voice** Times Cited: **117**  
By: Mayer, RE; Sobko, K; Mautone, PD  
JOURNAL OF EDUCATIONAL PSYCHOLOGY Volume: 95 Issue: 2 Pages: 419-425 Published: JUN 2003
5. **Theatrical approach: Designing human-like behaviour in humanoid robots** Times Cited: **4**  
By: Nishiguchi, Shogo; Ogawa, Kohei; Yoshikawa, Yuichiro; et al.  
ROBOTICS AND AUTONOMOUS SYSTEMS Volume: 89 Pages: 158-166 Published: MAR 2017
6. **Robots Educate in Style: The Effect of Context and Non-verbal Behaviour on Children's Perceptions of Warmth and Competence** Times Cited: **2**  
By: Peters, Rifca; Broekens, Joost; Neerinx, Mark A.  
2017 26TH IEEE INTERNATIONAL SYMPOSIUM ON ROBOT AND HUMAN INTERACTIVE COMMUNICATION (RO-MAN) Book Series: IEEE RO-MAN Pages: 449-455 Published: 2017
7. **Are gestures worth a thousand words? Verbal and nonverbal communication during robot-assisted surgery** Times Cited: **1**  
By: Tiferes, J.; Hussein, A. A.; Bisantz, A.; et al.  
Applied Ergonomics Published: 2018  
[\[Show additional data\]](#)
8. **Robot therapist versus human therapist: Evaluating the effect of corrective feedback on human motor performance** Times Cited: **2**  
By: Xu, J.; Bryant, D.; Chen, Y.; et al.  
2018 INT S MED ROB I Pages: 1-6 Published: 2018  
[\[Show additional data\]](#)

Showing 8 of 8 [View All in Cited References page](#)**Clarivate**

Accelerating innovation

© 2019 Clarivate [Copyright notice](#) [Terms of use](#) [Privacy statement](#) [Cookie policy](#)[Sign up for the Web of Science newsletter](#)[Follow us](#)