

EVALUATING SOCIAL ROBOTS

JULY 15, 2014 – VENICE, ITALY

Call for Papers

Developing robotic creatures able to communicate and interact in a human-like way with people as reliable and cooperative partners is the main topic of social robotics. From therapeutic robots to entertainment robots, from face to face interactions in controlled laboratory conditions to the engagement of many people in public spaces, over the last few years scientists focused on the use of social robots in various and realistic scenarios, facing several challenges.

All those experiences, however, have shown how the development of a human-like social intelligence cannot be solely approached from a pure engineering perspective. Psychology, social sciences and developmental sciences assume here a main role in the arising of such kind of human-like robots. In this regard, the evaluation of the social robot interaction becomes particularly challenging because it cannot be reduced to a classic evaluation of the

employed algorithms.

Conversely, this data should be integrated with information regarding the quality of the interaction and its human-likeness. Main questions are: is the robot able to express social intelligence? How does its particular physical embodiment influence the perception of social intelligence in humans? Which verbal and non-verbal behaviors does a social robot need to express in order to improve its perceived intelligence? How can such parameters be assessed in a quantitative way?

The aim of this workshop is to foster interdisciplinary collaboration between technical and social scientists to join expertise on social robots and their deployment in everyday life. Equally important is the goal to stimulate the emergence of a common language and shared frameworks including tools, techniques and metrics for a more complete and replicable evaluation of social robots.



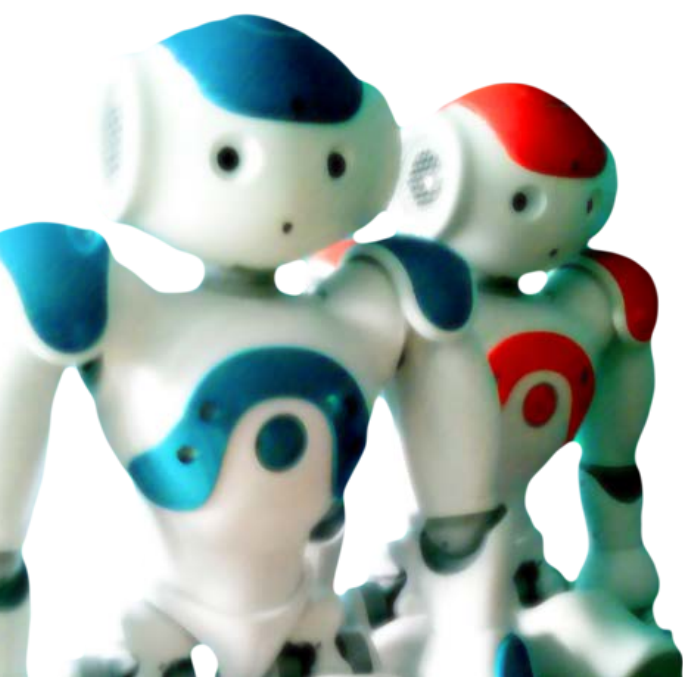
Important Dates

1/05/2014: Paper submission deadline

1/06/2014: Notification of paper acceptance

15/06/2014: Final paper versions due

15/07/2014: Workshop as part of the IAS-13 Conference, at [Congress Centre 'Papa Luciani'](http://www.paduaconferencecenter.com/), Padova, Italy (<http://www.paduaconferencecenter.com/>).



The 13th International Conference on Intelligent Autonomous Systems

Contributed Papers

We accept submissions in IEEE Conference proceedings style format limited to 6 pages:

- Full six-page paper submissions will be selected for either an oral presentation or a poster presentation.
- Two-page poster abstract submissions will be selected to encourage discussion.

The posters will have a 1 minute "teaser" presentation.

Submissions for Full Papers are due on 1/05/2014. Send your paper to workshop.ias13-esr@isir.upmc.fr with the title [IAS13 Workshop: Evaluating Social Robots]. All contributions will be subject to blind peer review by a minimum of two independent experts in the field. Notifications will be issued on 1/06/2014.



Organizers

Salvatore M. Anzalone - ISIR-UPMC - France

Yuichiro Yoshikawa - Osaka University - Japan

Sofiane Boucenna - UPMC - ISIR-UPMC - France

Fabio Dalla Libera - Osaka University - Japan

Contacts

Email: workshop.ias13-esr@isir.upmc.fr

Website: <http://ias13-esr.isir.upmc.fr/>



Topics of interest include, but not limited to:

- Social robots design
- Embodied cognition, androids, humanoids and other physical embodiments
- Human-robot interaction measures and interaction efficiency metrics
- Joint activities, social cooperation cues and mutual responsiveness
- Engagement, acceptability, likeability and perceived intelligence
- Verbal, non-verbal communication and backchannels
- Timing and coordination
- Multi-party interaction in public spaces
- Social cognition and collaborative cognition
- Cognitive, attitudinal and behavioral responses
- Kinesthetic teaching
- Personal space and proxemics
- Media equation theory and social robots
- Personhood and personalization
- Robotiquette