

Session 10: Human-Robot Interaction

Date: January 25, 2019

Venue: AP Convention Room Chayamachi, Umeda, Osaka

“Visual Audio Attention for Human-Robot Interaction”

Francesco Rea (Italian Institute of Technology)

In our recent studies on HRI show how intelligent systems score high in agency and anthropomorphisation when attentive to the social cues of interactive partners. I present the recent result of natural interaction promoted by auditory and visual computational models of attention for humanoid robot iCub.

“Intuitive Understanding between Humans and Robots”

Alessandra Sciutti (Italian Institute of Technology)

Humans understand each other intuitively, by exchanging unconscious signals that allow for mutual comprehension and anticipation. Robots should learn to send and sense the very same signals, in order to adapt their behavior and perception to those of the human partner. To this aim, robots can be used as “interactive probes”, i.e. tools to study the interaction while it unfolds without losing experimental control.