Collaborative Experience among Humans and Robot based on Shared Annotations on Mutual Views

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Abstract

We aim to realize a robot as a medium for situated knowledge and a robot as a social partner for collaborative learning. In order to realize such a robot to share experience with us, we propose a method of transcendential communication based on sharing and manipulating mutual views among humans and robots. We use a system called PhotoChat, a communication support tool based on sharing photos and hand-written notes by mobile PCs. We mount the PhotoChat module onto the robot, and then enable to share mutual views among human PhotoChat users and the robot for facilitating to understand and manipulate the world where the robot is situated.