

## New progress in Robot's Proactive Learning and Behaving Dynamically



Imagine a social robot, on a snowy Friday, learned from John that he was freezing and he might get cold. Next day when Tina (John's wife) is going out, the robot proactively suggests, based on its experience with John, to not to forget to wear the coat, and that too with an explanation of the potential problem of getting cold. Now, just imagine the resultant instantaneous gain of getting user trust, and in the dynamic behavior of the robot. (note that the lack of trust and dynamic content are barriers to the market). In innovation, we keep working on the learning framework through and for Human-Robot Interaction, with different use cases, to make the robot behavior dynamically, engaging and positively surprising. One instantiation of this framework is shown in the [video](#).



Such dynamic behaviors can be used in B2C as well as for marketing purposes in B2B. For example, the learning habits of robot can project the robot as curious and interested in people, and at the same time appear better connected because of past experience based dynamic behavior generation. One of the desirable side effects and

applications for the stakeholders could be the ability to promote of sales of a particular item and brand at appropriate moment, e.g promotion of umbrella in malls when the visitor is going out and it is raining.