

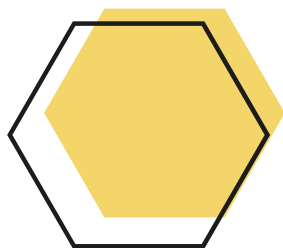
Tuesday Seminar

25 FEB | 6 PM

Sierra Hall 1422
CSUCI

A.I.-BASED MULTI-MODAL HUMAN-ROBOT INTERACTION

Dr. Bahareh Abbasi, CSUCI



There is a growing need for service robots that can support independent living of the elderly and people with disabilities, as well as robots that can assist human workers. However, robots that collaborate with humans should act predictably and ensure that the interaction is safe and effective. Therefore, when humans and robots collaborate, robots should be able to recognize human actions and intentions and produce appropriate responses. To do so, it is crucial to understand how two humans interact during a collaborative task. Humans employ multiple communication modalities when engaging in collaborative activities; similarly, service robots require information from multiple sensors to plan their actions. We study in detail the scenario where a human and a service robot collaborate to find an object in the kitchen. Based on the data collected, we develop an *Interaction Manager* which allows the robot to actively participate in the interaction and plan its next action given human spoken utterances, observed actions.

COMPUTER SCIENCE SEMINAR SERIES

Select Tuesdays 6 - 7 PM | Upcoming Talks at compsci.csuci.edu/degrees/seminars