



Channel Islands

CALIFORNIA STATE UNIVERSITY
DEPARTMENT OF COMPUTER SCIENCE

SEMINAR

COMPUTER SCIENCE - IT - MECHATRONICS ENGINEERING - MSCS

March 8, 2019, 2:00-3:00 pm

Broome 2490

Speaker: Ms. Bahareh Abbasi

Title: Multimodal Human-Robot Interaction

Abstract: With rapid advances in social robotics, humanoids and autonomy, robot assistants appear to be within reach. However, robots are still unable to effectively interact with humans in activities of daily living. One of the challenges is in the frequent use of multiple communication modalities when humans engage in collaborative activities. In this talk, we discuss a Multimodal Interaction Manager, a framework for an assistive robot that maintains an active multimodal interaction with a human partner while performing physical collaborative tasks. Finally, we cover how to implement this framework on a robot using Robot Operating System (ROS), an open-source software framework for writing robot software.

Bio of the speaker: Bahareh Abbasi received her B.S. degree in Electrical and Computer Engineering from University of Tehran, Iran, in 2012. She is a Ph.D. candidate in the Department of Electrical and Computer Engineering at University of Illinois at Chicago, where she also completed her M.S. in ECE. She has joined CCC Information Services, Inc. as a research and development engineer intern since 2017. Her primary research interests include robotics, haptics, multimodal human-robot interaction, and machine learning. Her works have been published in prestigious conferences and journals such as TRO, ICRA, IROS, ROMAN, and ISMR.

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