Elena Grigore

Advisor: Brian Scassellati

Title: Modeling Motivational States in Adaptive Robot Companions

Description: The current work aims to develop an adaptive robot companion that models a user’s daily motivational state and chooses appropriate motivational strategies to keep the user on track for achieving a daily goal. The two main components I am focusing on in this context are creating an ontology-based user model of the person’s motivational states and using an appropriate strategy selection algorithm that chooses the best motivational strategies for the user each day based on the user model’s output. My human-robot interaction system uses information acquired from the user to feed the user model and physical activity data from a wristband device to inform the strategy selection algorithm.