In-home assistance for children and adults with ASD

Social Robotics for Neurodevelopmental Disorders
Workshop in conjunction with
the 2020 IEEE International Conference on Robotics and Automation

Brian Scassellati
Department of Computer Science,
Yale University, New Haven, Connecticut, U.S.

Abstract

I will be speaking about two projects, both related to the use of in-home robotics support for individuals with ASD. First, I will cover a project that placed social skills tutoring robots into homes with a child with ASD to help support child-adult-robot triadic interactions. This project produced the first clinically verified increases in social skills that persisted past the 1-month intervention. The second project focuses on helping adults with ASD to learn job-related skills. I will show a new prototype system aimed at helping adults with ASD to cope with common on-the-job interruptions using an in-home practice robot.