

**LAB 8: TRANSFORMING THEORY INTO PRACTICE**

**BITM 2313**

**SEMESTER 2**

**SESI 2020/2021**

## **1.0 OBJECTIVE**

To analyze the advantages and disadvantages of Human Robot Social Interaction

## **2.0 INTRODUCTION**

Human computer interaction is basically a study of how humans interact with computer and what needs to be done to make the fundamental interaction of a computer with a human being more successful and use-full.

Nowadays this topic has become very popular for research purposes. Human-Robot Social Interaction became one of active research fields in which researchers from different areas propose solutions and directives leading robots to improve their interactions with humans. Human robot interaction and human computer interaction can benefit from each other progress, even robots in human robot interaction are often designed to be mobile and autonomous which differ from computers.

## **3.0 FROM HCI TO HUMAN ROBOT SOCIAL INTERACTION**

We consider that the human robot fundamental interaction and human computer fundamental interaction can profit from each other progress, even robots in human robot interaction are often configured to be motorized and self-governing which differ from computers.

## **4.0 LAB ACTIVITY**

In a group of three students, choose one of the Human Robot Social Interaction. **Identify what are the benefits and current limitations of this robot. Could social robots facilitate children with autism spectrum disorders?**

Related video:

<https://www.youtube.com/watch?v=BJZcGJSK1Z0&feature=youtu.be>  
<https://www.youtube.com/watch?v=2017kmkEukE&feature=youtu.be>  
<https://www.youtube.com/watch?v=pgxWbldQVKE>

Related Information:

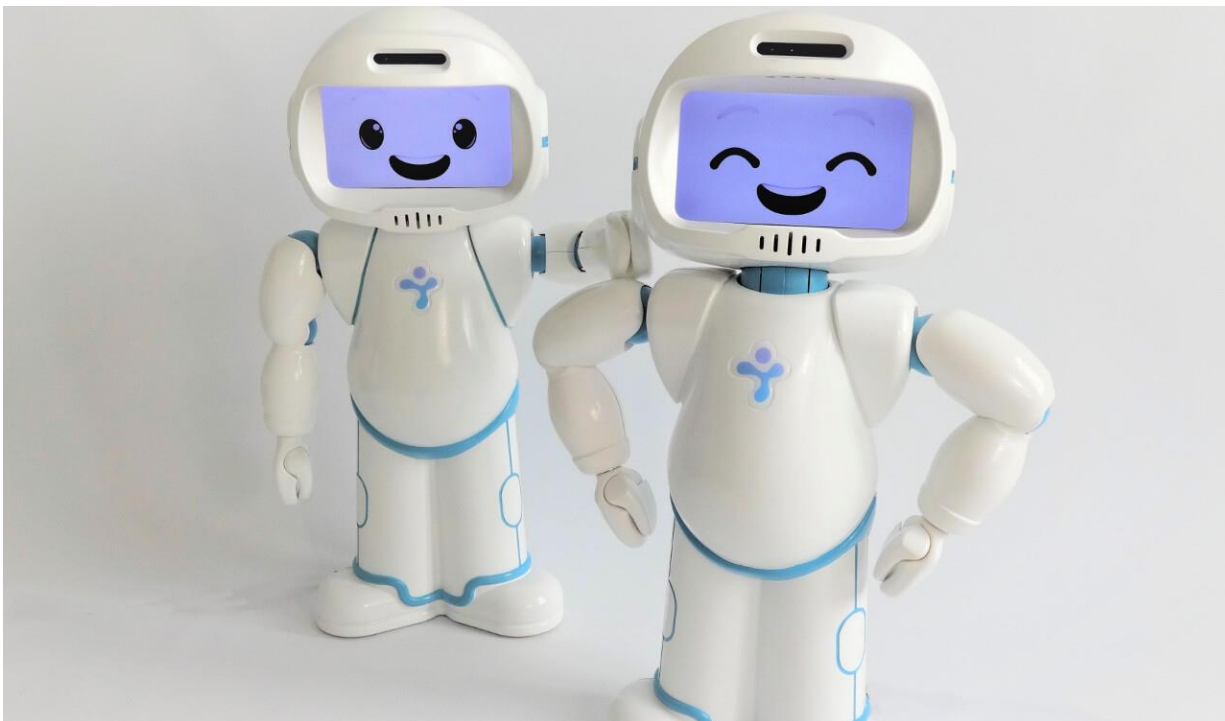
<https://spectrum.ieee.org/the-human-os/biomedical/devices/robot-therapy-for-autism>

<https://dot.la/autism-robot-moxie-ai-2645867544.html>

<https://www.edutopia.org/article/can-robot-help-autistic-children-connect>



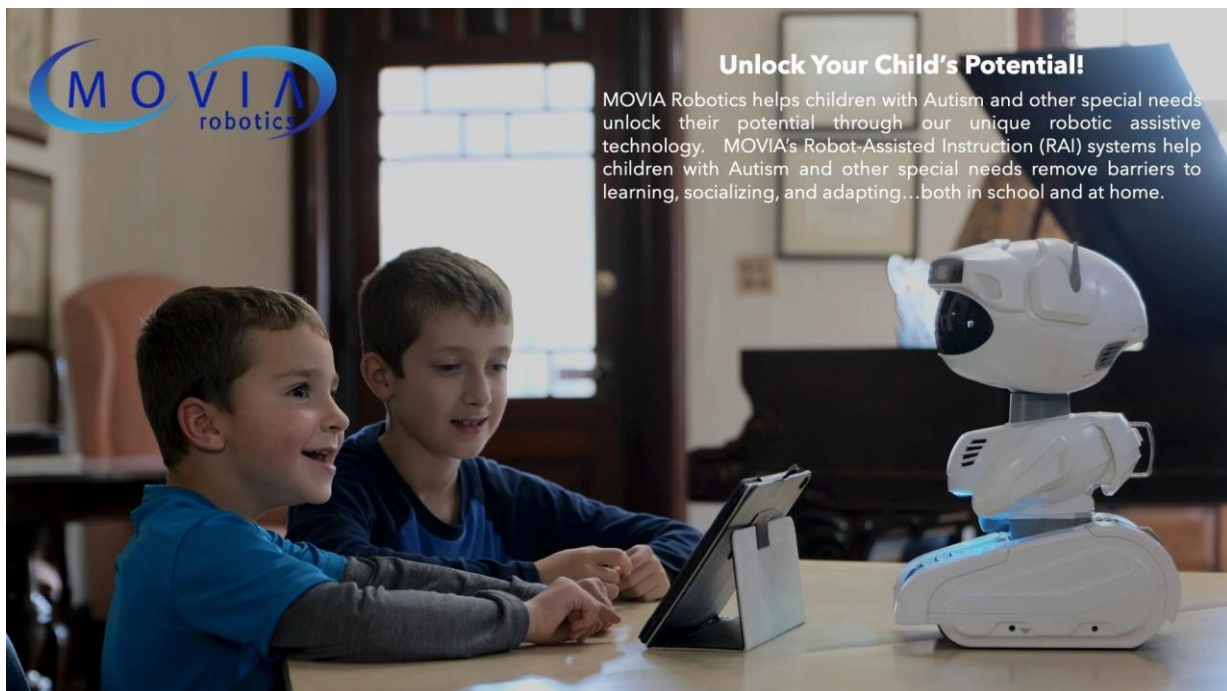
Luca Robotics



Qrobot



Milo The Robot



Misty Robot