Abstract

People with Down syndrome have some physical and intellectual characteristics, that can cause motor and cognitive restrictions. The sociable robot must be able to interact with people in a reciprocal way, understanding and expressing attitudes, behaviors, feelings, and emotions. It is an observational, descriptive, and exploratory study containing field research. The Alfadown project an extension offered by PUC-Goiás made it possible to conduct the testing of the robot dancer with people that have SD. They were instructed to understand the proposed activity. First, the volunteer was positioned in front of the robot to begin the test execution. The same should mimic the movements and perform the commands issued by the robot. In this way, variables such as interest, visual contact, dissatisfaction, indifference, attention, and interaction with the robot were investigated and evaluated through the application of a questionnaire to assess the activity.
References

8. Arduino_FreeRTOS_Library available in:.
9. Quality RTOS & Embedded Software. available in:

Index Terms

Computer Science Circuits and Systems

Keywords

Down's syndrome, social robot, dance.