

## LogiSun: An Interactive Robot to Reduce Pollution on the Beach

**Authors :** Ruth Manzanares, Victor Honores, Hugo Zapata, Javier Cansaya, Deivid Yavar, Junior Meza

**Abstract :** LogiSum is a robot focused on education like a solution to the ecological crisis. This robot allows reducing the pollution on the beaches by stimulating environmental awareness of not contaminating through the collection of waste. Through the use of the methodology of design thinking, it is intended to reinforce values in adults and with a greater focus on children, so as not to contaminate the beaches. The goal is to encourage the use of the container of the robot LogiSum to put the garbage, with visual interaction and simulation of dialogue with the function of the robot. The results obtained of the testings of the interaction of children with the robot showed an encouraging behavior. With the robot, children left the waste in the right places and not bury it in the sand or in the floor.

**Keywords :** interaction human-robot, pollution reduction, social robot, robot container, beach pollution

**Conference Title :** ICSR 2019 : International Conference on Social Robotics

**Conference Location :** New York, United States

**Conference Dates :** June 04-05, 2019