

Control Strategies for a Robot for Interaction with Children with Autism Spectrum Disorder

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Abstract : Socially assistive robotic has become increasingly active and it is present in therapies of people affected for several neurobehavioral conditions, such as Autism Spectrum Disorder (ASD). In fact, robots have played a significant role for positive interaction with children with ASD, by stimulating their social and cognitive skills. This work introduces a mobile socially-assistive robot, which was built for interaction with children with ASD, using non-linear control techniques for this interaction.

Keywords : socially assistive robotics, mobile robot, autonomous control, autism

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