Robot-Assisted Therapy for Autism Spectrum Disorder: Evaluating the Impact of NAO Robot on Social and Language Skills

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Abstract : This work presents an application of social robotics, specifically the use of a NAO Robot as a tool for therapists in the treatment of Autism Spectrum Disorder (ASD). According to this, therapies approved by specialist psychologists have been developed and implemented, focusing on creating a triangulation between the robot, the child, and the therapist, aiming to improve their social and language skills, as well as communication skills and joint attention. In addition, quantitative and qualitative analysis tools have been developed and applied to prove the acceptance and the impact of the robot in the treatment of ASD.

Keywords : autism spectrum disorder, NAO robot, social and language skills, therapy

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