THE APPLICATION EXTENDING THE CAPABILITIES OF THE HUMAN-ROBOT INTERACTION OF THE HUMANOID ROBOT NAO

ABSTRACT  In this work of an interdisciplinary character, the potential implementation of the humanoid robot NAO in regards of research on the lateralization phenomenon was presented. Some assumptions regarding the system for therapy on selected laterality disorders in children were presented. The NAO humanoid robot was implemented for the purpose of interaction with child in order to focus its attention and make him willing to make and repeat given exercises. It is particularly important for autistic children. Also the basics of the proposed LES (Lateralization Exercise System) system were presented, which could enable to apply the solution of varying components for the information exchange in human-robot system.

Keywords: lateralisation, human-robot interaction, robot NAO
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