Assistive Technology Android Application for Autism Spectrum Disorder Therapy

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Abstract

The power of augmentive and alternative communication through mobile devices like phones, tablets and iPods has changed the lives of children with autism by helping them to cope with their visual, mental and developmental disabilities. Autism Spectrum Disorder in short ASD is a spectrum of closely related disorders with impairment to some degree in social skills, empathy, communication and flexible behavior leading to restricted activities and interests. Extensive research over the years has proven that the use of android and iphone apps with interactive technologies for autism therapy has been quite efficient. This paper provides a supportive tool to counter the motor related disabilities of the ASD children by providing Assistive Technology in the form of an android app. The touch screen interface is very appealing and easy to use due to strong visual support compared to the traditional teaching systems. The app is designed with the learning and evaluation modules by provide all round support to children, parents and tutors.
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Index Terms

Computer Science               Signal Processing

Keywords

Autism Spectrum Disorder, Assistive Technology, android app, evaluation module.