A versatile assistive device for ADHD with speech therapy using embedded system

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Abstract:

A few human beings are effected with various mental disorders like ADHD (Attention Deficit Hyperactivity Disorder). This paper gives the solution for ADHDs; it is able to solve the social communication of ADHDs with speech control feedback mechanism by assistive based embedded system. The speech information is filtered with three stages of matched filters. An embedded system is developed with Lab View soft core for speech analyses and arduino (UNO board) micro control works as control unit in feedback mechanism.