Concentration Improvement For The Purpose Of Learning Quran among ADHD Children Using Hand Gesture Technique

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The widespread benefits of Holly Quran are impressive around the world in various fields. Shifa or healing is one of the aspects of Quran that have been studied more due to uncover its hidden secrets to cure people specially disabled. Attention deficit hyperactivity disorder (ADHD) is a commonly diagnosed behavioral disorder of childhood that causes development and learning disabilities which can use the benefits of Quran in healing. However, the main problem is that they have difficulties to concentrate meanwhile learning. Although several learning aids are available to support teaching these children, but these cannot be used to decrease ADHD children's learning disabilities. Therefore, this study tries to find appropriate approach to overcome their impatience and improving their concentration by detecting smooth hand gestures and also grab their attention by developing interactive game application. Accordingly, the application will be assembled on vision-based device namely, Kinect sensor, with the aim of encourages them to spend more time on using assistive learning application. Then, this method can be used to develop a Quran learning assistive tool. As final results shows, for hyper-active children due to the fact of having low concentration, the chance of learning holly Quran is increased if application being developed based on their needs and with choosing the appropriate input device to improve their concentration. Therefore according to the research has been done using hand gesture as input device can be a solution to their impulsivity behavior to develop effective Quran assistive learning tool.