

Development of Soft Motoric for Children with Physical Impairment through Sand Play Media based on Augmented Reality

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ABSTRACT

A disabled child is a child who has imperfect body. Thus, orthopedic defects are caused by abnormalities in the control center of the muscular, bone and joint systems. The form of activity for disabled children is divided into two, namely self-development and movement development. Self-development is related to the ability to take care of oneself, while movement development is related to children's mobility. Fine motor skills can be developed, for example by various creative games by digging sand and soil and pouring water. Another method is picking up and collecting stones, seeds, toy marbles and other small objects. Outdoor play is very good for motor development from an early age. With the advancement of this modern era, fine motor training is made that relies on augmented reality technology which can help children train fine motor skills using sand. With so many activities in sand play that can train fine motoric upper limbs, this method is selected and combined with technology through augmented reality, it is hoped that the sand play method with augmented reality will motivate children to practice more enthusiastically and attract attention so that the training gets better.

Keywords: soft motoric, augmented reality, sandbox.