Abstract

Learners with dyslexia are intuitive and perceive multidimensionality. But they face severe difficulty in reading, writing, mathematics and working memory. It is a different brain organization that needs different teaching methods. This article presents a methodical review of assistive technologies used for smart learning process with dyslexia. Type of technologies used in the assistive process is analyzed and listed. These include text-to-speech, Multimedia software, Touch sensation based learning, Multisensory, Games and Virtual learning Environment. The Text-to-Speech technology is the most common type of technology used by dyslexic learners. Most of the studies focus on dyslexic children. This review also finds that a majority of these studies focus on the use of multimedia and multisensory technologies for improving the reading ability of dyslexic learners.

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Index Terms

Computer Science Information Sciences

Keywords

Dyslexia; Learning Impairment; Multisensory; Text-to-Speech, Speech-to-Text; Virtual Learning Environment