Illustrations Generation Based On Arabic Ontology For Children With Intellectual Challenges

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Abstract

Digital devices and computer software have the prospect to help children with intellectual challenges (IC) in learning capabilities, profession growth, and self-consciousness living. However, most tools and existing software applications that these children utilize are prepared without observance of their particular deficiency. We conduct an Arabic ontology-based learning system that presents automatically illustrations to characterize the content of stories for children with IC in the state of Qatar. We utilize different mechanisms in order to produce these illustrations which comprise: Arabic natural language processing, animal domain-based ontology, word-to-word based relationship extraction, automatic online search-engine querying. The substantial purpose of our proposed system is to ameliorate children with IC the educational, comprehension, perception, and reasoning through the generated illustrations.