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Supporting Dyslexic's Learning Style Performances in Inductive Virtual Learning Environment

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Abstract: *This study explores the role of Information and Communication Technology (ICT) in supporting students with dyslexia through adaptive virtual learning environments. Dyslexia, a common learning disability, affects reading, writing, and comprehension skills despite conventional instruction. By integrating assistive technology, such as text-to-speech tools, phonetic dictionaries, and adaptive learning models, this research aims to enhance personalized learning experiences. The proposed system tailors educational content based on students' cognitive traits and preferred learning styles, ensuring greater accessibility and engagement. This study contributes to the development of inclusive e-learning systems that empower dyslexic learners and improve academic outcomes.*

Keywords: Dyslexia, adaptive learning, assistive technology, virtual learning, cognitive traits.

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