Detailed Table of Contents

skill deficits can make the activities of daily living challenging (Loe et al., 2007). Many assistive technology and artificial intelligence tools can support executive functioning. This chapter explores how emotional regulation, organizational skills, sustained attention, and working memory can be enhanced through the use of assistive technology and artificial intelligence. When used effectively, Summit, Headspace, Goblin Tools, Motion, Positive Feedback Bot, Speechify, TickTick, and Bear can raise, reinforce, and consolidate executive functioning skills in persons diagnosed with ADHD thereby fostering independence, confidence, and self-efficacy.

This study explores the application of immersive virtual reality (VR) in English speaking instruction for Chinese university students. With the continuous development and popularity of immersive VR, education based on this technology has emerged as a new field. As an internationally recognized language, English is widely used and promoted globally, making the learning of English speaking crucial for students' development. Therefore, utilizing immersive VR holds significant practical value for enhancing the quality and effectiveness of English speaking instruction.

Artificial Intelligence (AI) has the potential to significantly reshape the landscape of education through the integration of AI-powered tools, personalized learning algorithms, and virtual and augmented reality. In a study exploring the integration of AI-based drama in English language teaching in Palestine, a cohort of 43 teachers from both governmental and private schools participated in a questionnaire-based assessment. The survey sought to capture their perspectives on AI, AI-based drama techniques, the impact of AI in EFL classrooms, and the challenges associated with its implementation. Utilizing SPSS (V. 23), descriptive statistics, independent sample t-tests, and ANOVA tests were employed to analyze the data. The findings revealed a prevailing optimism among the participating educators, indicating their confidence in the potential of AI to enhance the EFL teaching and learning experience. Furthermore, the teachers identified financial and technical hurdles as the primary

challenges. The findings underscore the imperative for comprehensive teacher training programs focused on effectively integrating AI tools in EFL education.

Large Language Models (LLMs) like ChatGPT are powerful tools for generating well-written content quickly, but their inner workings are opaque, leading to concerns about the accuracy of their outputs. These models don't actually "think"; they use statistical methods to generate language, creating a "black box" where the reasoning behind their outputs is unclear. This can lead to plausible but factually incorrect content being mistaken for accurate information. Instead of expecting LLMs to explain their reasoning, users should approach their outputs critically, recognizing that speed doesn't guarantee accuracy. Human validation is essential to mitigate the risks associated with LLMs, ensuring that their content is used safely and effectively.

The integration of immersive technologies such as Virtual Reality (VR), Augmented Reality (AR), and Extended Reality (XR) is reshaping educational paradigms by offering immersive, interactive, and contextually rich learning environments. These technologies are pivotal in cultivating critical 21st-century skills like critical thinking, self-directed learning, and teamwork, bridging theoretical knowledge with practical application. This article synthesizes insights from various studies highlighting the transformative potential of VR and AR in education. Despite their promising benefits, challenges such as cost, accessibility, and pedagogical integration remain critical considerations. By fostering an environment conducive to their ethical and impactful deployment, educational institutions can prepare students for success in a digitally-driven world. The article concludes by advocating for a balanced approach that leverages technological advancements while prioritizing thoughtful implementation to maximize educational outcomes.

By embracing these directions, ChatGPT can be effectively integrated into sustainable LIS research, driving advancements in the field and empowering researchers to address the complex challenges of the evolving information landscape.