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Conference paper

The Transformative Influence of Generative AI on Teaching and Learning

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Abstract

The emergence of Generative Artificial Intelligence (AI) has marked a transformative shift in the landscape of learning and teaching across diverse educational settings. This paper explores the influence of generative AI technologies, such as large language models and content creation tools including AI-powered virtual assistants, ChatGPT, adaptive learning platforms, and automated assessment systems, on pedagogical strategies, student engagement, and educational outcomes. We examine how generative AI facilitates personalized learning experiences by providing adaptive content, real-time feedback, and automated support for both students and instructors. Furthermore, ethical issues such as biasness, confidentiality and data privacy as well as artificial intelligence tendency to enhance the already established inequalities in the education sector are investigated. The current study examines the possibility of generative artificial intelligence in refining traditional methods of teaching and its innovative techniques in assessment, curriculum design and skill development as we leveraged on some case studies and empirical research conducted in literature. As part of our findings, the integration of artificial intelligence must be systematically handled so as to obtain fairness and equity in the outcomes even when generative artificial intelligence has a great potential in enhancing access to and effectiveness in education. In conclusion, in order to reap the full promises and capability of generative artificial intelligence in education, a deliberate thoughtful policy development, implementation and continuing research are suggested while the future direction of artificial intelligence in education is also presented.

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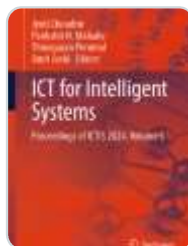
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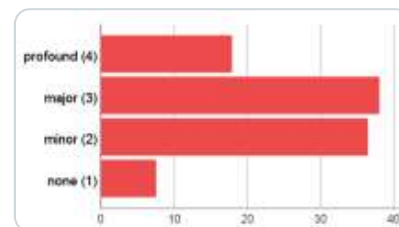
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