Artificial Intelligence in Education: Challenges and Opportunities for Sustainable Development

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Abstract

Artificial Intelligence is rapidly transforming the landscape of education, presenting both challenges and unprecedented opportunities for sustainable development. This study investigates the multifaceted impact of AI on educational practices, focusing on administration, instruction, and learning process. A qualitative research approach was employed, utilizing a literature review framework to explore AI's application and effects in education. AI embodies a range of innovations characterized by human-like cognitive abilities, learning processes, adaptability, and decision-making capabilities. As AI integrates into educational systems, it blurs the lines between traditional roles and tasks, leading to a reshaping of professions and instructional methods. Some professions may become obsolete, while others undergo substantial transformations requiring updated didactic materials. Concurrently, new vocations will emerge necessitating innovative educational approaches. In educational operations, AI serves as both a reformer and facilitator, reshaping job roles and work dynamics. This study underscores the need for educators and policymakers to proactively address the implications of AI, ensuring equitable access to technological advancements and harnessing AI's potential to enhance educational outcomes. By embracing AI responsibly, the education sector can leverage emerging technologies for sustainable development and improved learning experiences. This research contributes to the ongoing discourse on AI in education, highlighting critical challenges and transformative opportunities for the future.

Key words

adaptive education; educational outcomes; emerging technologies; responsible AI; transformative education

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