



Teaching in the Age of Artificial Intelligence: Challenges, Opportunities, and the Way Forward

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Abstract

The rapid development of Artificial Intelligence (AI) is reshaping education, presenting both opportunities and challenges for teachers. AI tools personalizing teaching, analyze student performance, streamline assessment, making instruction more effective and engaging. Data-driven approaches help teachers better understand students' individual needs. However, significant challenges remain, including a lack of technical training, limited resources, digital inequality, data privacy, and ethical issues. Striking a balance between technological innovation and human sensitivity is crucial to avoid overreliance on technology. This research paper examines these opportunities and challenges through teacher experiences and educational data, emphasizing the importance of teacher training, responsible AI use and, teacher-centered integration. The study argues that AI should complement, not replace teachers, ultimately enhancing teaching effectiveness.

