



Use of Artificial Intelligence in Academic Research

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Abstract

The use of Artificial Intelligence (AI) in academic research has significantly transformed the processes of knowledge creation, data analysis, and scholarly communication. AI-powered tools assist researchers in conducting systematic literature reviews, managing large datasets, performing advanced statistical analyses, and generating predictive models with improved speed and accuracy. Machine learning algorithms and natural language processing technologies enable the identification of patterns, trends, and relationships that may not be easily detected through traditional methods. Furthermore, AI enhances research productivity by automating repetitive tasks such as data coding, citation management, and plagiarism detection. Despite these advantages, the integration of AI in research raises important concerns related to data privacy, algorithmic bias, transparency, authorship, and academic integrity. Responsible use and clear ethical guidelines are essential to maintain credibility and accountability in scholarly work. Overall, AI serves as a powerful research assistant, offering both opportunities and challenges that require careful governance and critical engagement.

