

Chapter 1

Conceptualizing Artificial Intelligence in Educational Management

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Abstract

At a very fast pace, artificial intelligence (AI) is transforming how we manage our institutions of education. At the same time, it provides new avenues for institutional strategic planning and leadership, and evidence-based decision-making. Examples of how AI is being used include: adaptive learning systems; predictive analytics to measure and understand student performance; automated administration functions; and better resource allocations. The authors of this paper provide a model to integrate AI into the management of educational institutions. They argue that there needs to be integration of technological innovations with both the aspirations of institutions and the strategies employed by their leaders and sustainable development practices. This research identifies the fundamental issues associated with data privacy; algorithmic bias/discrimination; transparency; accountability; and equity/fairness in terms of access, which are all critical factors in using AI in an ethical and accountable manner. By resolving these issues, educational leaders will have the necessary tools to utilize AI as a new tool, but as a means to promote ethical reform and long-term development in educational systems. Therefore, the successful implementation of AI in education management will rely heavily upon the creation of inclusive, data-driven systems that improve organizational effectiveness, while promoting sustainable progress in education. This research contributes to current debates concerning the tension between technological