

Intelligent Learning Environments: Design, Usage and Analytics for Future Schools

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Abstract

This chapter reviews the field broadly referred to as Intelligent Learning Environments (ILEs), capturing the state-of-the-art in both Intelligent Tutoring Systems (ITS) and Artificial Intelligence in Education (AIED). After a brief historical account, we report design architectures and implementation approaches exemplified by a recent example. We then shift our attention to classroom implementation and blended learning strategies that take into account the challenges of using ILEs in the classroom. We present Learning Analytics tools as a way to support teachers addressing these challenges, to increase their awareness and ultimately to support students directly. We conclude with a summary of efficacy studies and open issues while advocating that these systems should not be seen as displacing teachers but augmenting the human aspects of teaching.

Keywords: intelligent learning environments, learning analytics, design, blended learning

Introduction

With the recognition of education as a pillar for a sustainable future (e.g. UNESCO, 2014), educators, policy makers and parents are in search of ways to provide cost-effective and at the same time quality teaching and learning opportunities for students. Technology has been promoted as a solution to this challenge for decades. The emergence of artificial intelligence techniques and advancements in the analysis and visualisation of data are transforming learning technologies and introducing a genre of tools that can support students directly and provide information about their learning to teachers and parents.

There are several terms and ways to refer to this technology. This chapter will refer to **Intelligent Learning Environments (ILEs)** as a broad category of digital educational interactive applications equipped with features that enable the provision of personalized, adaptive support to students (either by means of task selection or adaptation, or dynamic assistance while students are undertaking a task). This expands on older definitions that centre on student assistance during problem solving (Dillenbourg et al., 1994) or student-driven learning (Brusilovsky, 2004). Depending on the subject matter that these systems are designed to target, and the type of learning that they are promoting, the system-student interaction is characterized differently. For example, the system-student interaction may be referred to as *tutoring* (hence Intelligent Tutoring Systems), when the interaction is designed around the steps that students take when solving a problem (Van Lehn, 2011). At other times, it may be referred to more generally as *intelligent support* when the interaction is more open-ended or exploratory (Gutierrez-Santos et al. 2012).

Mathematical Intelligent Learning Environments

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