

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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Table of Contents Mathematical Intelligent Learning Environments

1. Understanding the eBook Mathematical Intelligent Learning Environments
 - The Rise of Digital Reading Mathematical Intelligent Learning Environments
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematical Intelligent Learning Environments
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematical Intelligent Learning Environments
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematical Intelligent Learning Environments
 - Personalized Recommendations
 - Mathematical Intelligent Learning Environments User Reviews and Ratings
 - Mathematical Intelligent Learning Environments and Bestseller Lists
5. Accessing Mathematical Intelligent Learning Environments Free and Paid eBooks
 - Mathematical Intelligent Learning Environments Public Domain eBooks
 - Mathematical Intelligent Learning Environments eBook Subscription Services
 - Mathematical Intelligent Learning Environments Budget-Friendly Options

6. Navigating Mathematical Intelligent Learning Environments eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematical Intelligent Learning Environments Compatibility with Devices
 - Mathematical Intelligent Learning Environments Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematical Intelligent Learning Environments
 - Highlighting and Note-Taking Mathematical Intelligent Learning Environments
 - Interactive Elements Mathematical Intelligent Learning Environments
8. Staying Engaged with Mathematical Intelligent Learning Environments
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematical Intelligent Learning Environments
9. Balancing eBooks and Physical Books Mathematical Intelligent Learning Environments
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematical Intelligent Learning Environments
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematical Intelligent Learning Environments
 - Setting Reading Goals Mathematical Intelligent Learning Environments
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematical Intelligent Learning Environments
 - Fact-Checking eBook Content of Mathematical Intelligent Learning Environments
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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