

Smart Learning Environments: a Shift of Paradigm

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Abstract. The incorporation of Information and Communication Technologies (ICT) as a supporting mechanism in educational processes has already been proved as an important driver in reinforcing both teaching and learning. The extensive development of Learning Management Systems (LMS), software platforms aimed at supporting and articulating e-learning, education courses and training programs, is already backed by a relevant ICT industry, with significant market penetration. The emergence of the new concept of Smart Learning Environments (SLEs) is shifting the main focus of LMSs on courseware towards a more efficient and effective approach focused on teaching and learning processes, thus in the students themselves and in the teachers as key players. The evolving concept of SLEs encompasses blending educational technologies with appropriate considerations and guidance developed by pedagogical and educational neuroscience domains, thus opening up room for interesting scientific and technological challenges.

Keywords. Information and Communication Technology, Learning Management System, Smart Learning Environment

Key Terms. InformationCommunicationTechnology, TeachingMethodology, TeachingProcess, Environment