From eLearning to games-based eLearning: using interactive technologies in teaching an IS course

Thomas M Connolly* and Mark Stansfield

School of Computing, University of Paisley
Paisley PA1 2BE, Scotland, UK
E-mail: thomas.connolly@paisley.ac.uk
E-mail: mark.stansfield@paisley.ac.uk
*Corresponding author

Abstract: The E-Phenomenon has profoundly changed many aspects of society and, inevitably, it is having a commensurate impact on higher education. eLearning has now evolved from a marginal form of education to a commonly accepted alternative to traditional face-to-face education. The term can cover different delivery models ranging from courses that are delivered fully online to courses that provide some face-to-face interaction and some online provision. Within this continuum interactive technologies can play a significant role in engaging the learner and providing a rich learning experience. This paper examines the E-Phenomenon as it relates to eLearning and how different interactive technologies, such as visualizations and simulation games, can be used to enrich the learning experiences of students with different learning styles. The theory is related to the teaching of Information Systems in a postgraduate MSc Management of eBusiness course that uses a range of interactive technologies.

Keywords: eLearning; interactive technologies; games-based eLearning; communities of practice; motivation, information systems

Biographical notes: Thomas Connolly is a Professor in the School of Computing at the University of Paisley. His specialisms are online learning, games-based eLearning and database systems. He has published papers in a number of international journals that include the Journal of IT Education and Computers and Education, as well as authoring the highly acclaimed books ‘Database Systems: A Practical Approach to Design, Implementation, and Management’, and ‘Database Solutions’ both published by Addison Wesley Longman.

Mark Stansfield is a Senior Lecturer in the School of Computing at the University of Paisley. He has a PhD in Information Systems and has published papers on online learning, games-based eLearning, information systems and e-business in a number of international journals that include the Journal of Further and Higher Education, the Journal of Electronic Commerce Research, the Journal of IT Education and Computers and Education. He also serves on the editorial boards of several international journals.