Chapter VII

Instructional Interactivity in a Web-Based Learning Community

Adams Bodomo, University of Hong Kong, Hong Kong

Abstract

It is demonstrated in this chapter that enhanced interactivity is the single most important reason why teachers should practice Web-based teaching and why students should be encouraged to construct Web-based learning communities. The notion of a conversational learning community (CLC) as a kind of constructivist learning environment is introduced. It is shown that instructional interactivity, defined as active communication in a conversational learning community between instructor(s), learners, course materials, and links to remote experts and resources, is a central aspect of the learning situation. A practical implementation of the CLC model is presented through describing the interactive features of a Web-based course using WebCT. It is concluded that Web-based learning and teaching actually enhances interactivity both within and beyond the classroom setting.

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Introduction

At the beginning of the 21st century, we are faced with an age of rapid technological development in information and communication. Issues of educational reform have never been more urgent than now. One of the major challenges is how to design our educational system in general, and our methods of instruction in particular, to produce graduates who are better prepared to take up jobs in a knowledge-based environment characterized by a pervasive use of information and communication technology (ICT). ICTs, especially modern digital ones, include various types of computers; digital cameras; local area networking; the Internet and the World Wide Web; CD-ROMs and DVDs; and applications such as word processors, spreadsheets, tutorials, simulations, e-mails, digital libraries, computer-mediated conferencing, videoconferencing, and virtual reality (Blurton, 1999). Four main features of these modern digital ICTs make them stand out as very useful educational tools. These are integration of multimedia, flexibility of use, connectivity, and interactivity (Blurton, 1999).

The main focus of this chapter is an examination of just one of these features: interactivity. While interactivity has been a subject of considerable attention in the search for newer and more active methods of teaching and learning (Parker, 1999; Simms, 1999, 2000; Allen, 2003; Davies, 2005; Moreno & Valdez, 2005; Bodomo, 2006), there still remains a lot to be discussed as to how it can be enhanced in learning situations involving a mixture of Web-based course administration and face-to-face classroom instruction. It is quite clear that the introduction of ICTs into distance learning curricula is crucial in enhancing interactivity, given the situation where teacher and student are separated by distance. It is shown here, based on experiences with courses designed for both distance learners and traditional face-to-face classroom students where there is unity of time and unity of venue, that the use of the Web, one of the new digital ICTs enumerated above, along with other accessories and software that together give us what is termed Web-based teaching in a course, plays a crucial role in enhancing interactivity.

The chapter is organized as follows. The section that follows defines interactivity and shows the important role it plays in constructive/active learning theories. In the third section, the main features of a course designed to achieve interactivity are described and it is shown how interaction was achieved. The fourth section of the chapter points to certain challenges that should be overcome to create more opportunities for enhancing interactivity in Web-based teaching in the future.