

A Collaborative Ubiquitous Learning Approach for Conducting Personal
Computer-Assembling Activities

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Abstract

In recent years, the evolution of information technologies has made lots of changes on human activities, such as working, playing, and learning. Furthermore, the learning environment has been changed. Most of the u-learning systems are implemented with RFID as the location-aware technology and some of them even do not provide collaborative instant support. In the study, we propose a collaborative ubiquitous learning platform (CULP) which uses low-cost cell phones with embedded cameras and Internet service to support ubiquitous learning. CULP is able to provide instant support for learners in the collaborative ubiquitous learning activity; that is, learners can receive help from right persons via the hints given by the learning system when encountering problems during their learning activities. Experimental results on a Personal Computer-Assembling course showed that, with the assistance of the new learning platform, the learning efficiency of the students was significantly improved; moreover, most of the students had positive attitude toward the use of CULP.

Keyword : Ubiquitous Learning, Collaborative Learning, computer courses