URN etd-0407109-183726-2223
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Statistics This thesis had been viewed 46 times. Download 16 times.
Department
Year 2006
Semester 2
Degree Master
Type of Document Master's Thesis
Language zh-TW.Big5 Chinese
Title An Effective E-Learning System Based On Knowledge Management and Intelligent Agent
Date of Defense 0000-00-00
Page Count 100

Keyword
E-Learning
Knowledge Management
Intelligent Agent

Abstract
In the new economy, knowledge is the only real competitive advantage. Knowledge management has become the latest hot topic in the business world. The characteristics of learning anytime and anywhere make the E-learning become the trend of learning. In the current learning platforms, they neither analyze the causes of learning ineffectiveness of users, nor generate new learning materials and test from databases. The former makes the learners will not use these learning systems anymore since they are confused in materials; the latter leads the materials out-of-date and the learners could not get any new knowledge.
Thus, in this proposal, we propose a high effectiveness e-learning system, KMIA-HELS, based on knowledge management and intelligent agents. The design concept is to use knowledge management and intelligent agent community to help the learners finding out the adapting courses and the optimum learning path. The system analyzes the causes of learning ineffective by portfolio and test-portfolio and then provides personalized courses to remedy learners' studying weakness through the analyzed information.
The features of the KMIA-HELS are: analyzing the causes of learning ineffectiveness; promoting learners' learning effectiveness by knowledge management and learning feedback; spending less time in making teaching materials for teachers by intelligent agent; making new teaching materials and learning path for teachers through the information which the agents analyze.
Advisory Committee YI-HSING CHANG - advisor

Files etd-0407109-183726-2223-001.pdf

indicate access worldwide
Date of Submission 2007-07-15