URN etd-0407109-183715-1192
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Author's Email Address No Public.
Statistics This thesis had been viewed 35 times. Download 370 times.
Department
Year 2005
Semester 2
Degree Master
Type of Document Master's Thesis
Language zh-TW.Big5 Chinese
Title Automatic Question-Leveling System for E-Learning Environment Using Decision Tree
Date of Defense 0000-00-00
Page Count 61

Keyword
E-Learning
Decision Tree
Online Testing
Adaptive Testing
Decision Tree Pruning

Abstract
Over the past years, due to the rapid growth of information and communication technologies, the education environment has being enriched with those technologies and become more diversified. Obviously, the Internet-based environment has been rapidly replacing the traditional lecture-based one due to the factor of providing the multimedia-enhanced learning anytime and anywhere. Therefore, we have witnessed an explosive growth of e-Learning. More and more learning contents have been published and shared over the internet. Therefore, how to progress an efficient learning process becomes a critical issue.
In this paper, we propose an automatic question-leveling system for e-Learning examination pool using the algorithm of the decision tree induction. The automatic question-leveling system is built to automatically level each question in the examination pool according its difficulty. Thus, an e-Learning system can choose questions that are suitable for each learner according to individual background. And pruning technique is developed to eliminate the dangers of over-fitting in order to select a tree with good prediction performance.
Advisory Committee Shu-Chen Cheng - advisor

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Date of Submission 2006-07-13