

A Study of Using Learning Path Mining to Assist the Design of SCORM Teaching Material of Sequencing

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ABSTRACT

With the development of information technology, the trend of e-learning has been improved. E-learning has some problems about the uncorrected guideline of learning path. The e-learning content standard SCORM has also considered the sequencing and navigation of learning object and made clear defined in relation standard. But how to plan the suitable arranges the sequencing strategies, accord with the learner's degree, cognitive style and demand, it is the key point of influencing the quality of the teaching material. So this research will use the data mining to find the rule of e-learning path and analyze its type of learning path to provide the material editor reference basis in the compiling the tactics of the preface. Therefore, this research establishes a learning environment, recodes the learning trace of learner, and stores it to portfolio database. And we mine the learning path rule of learner, analyze its type, provide the reference of sequencing strategies for editor. Providing teacher sequencing strategies achieve the teaching material recombined, reused, and adaptive learning. The research objective is listed in the following: 1. Establish the learning management system fit in with SCORM. 2. Establish the learning material and provide the learner to learn. 3. Store the portfolio of learner, and set up the portfolio database. 4. Mine and analyze learning path rule and type.

Keywords : Portfolio ; learning path ; SCORM

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