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Abstract
The purpose of this study is to retrieve the worthily recommendable learning-path patterns of course materials for the teachers in designing a SCORM 2004-compliant Sequencing and Navigation（SCORM 2004 S&N） course. When designing a SCORM 2004 S&N course, the instructional designers should make learning-path suitable for most of learners' comprehension and improvement of learning effects. Many students at University of Science & Technology don't have sufficient knowledge to apply "Boolean logic concepts" on Internet surfing. Therefore, this study develops a course-unit on "Boolean logic inquiries". The subjects of this study consist of 32 freshmen at University of Science &Technology level . The processes of this study consist of three steps: first, developing a SCORM 2004 SN compliant course unit named as Boolean Logics Inquiry. Second, recording each student's learning portfolios on SCORM 2004 RTE browsing the course materials, third, using "Aggregation Tree" technique to mine those learning portfolios, and getting worthily recommendable learning-path patterns of the course-unit. The result of this study is to get one worthily recommendable learning-path patterns for "Boolean Logics Inquiry" course unit. The appropriate learning-path for this course-unit is "The introduction to Boolean logic inquiry", "AND sub-courses", "OR sub-course", "NOT sub-course", and "XOR sub-course". The result of this study may provide a reference for university teachers who intend to design an e-Learning course sequencings for their students. Finally, the implications of this study for future study are also included.
Advisory Committee Jin-Tan David Yang - advisor

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