Intelligent Examination System to Support Teacher’s Reflection Measurement of Student’s Guided Feedback

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Abstract

Feedback on student performance is a critical part of eLearning environment[1]. Assessment is one of the most important activities in education to evaluate the knowledge level of a student and to highlight the mistakes and misconceptions; especially, in Multiple Choices (MC) Exam which discovers the weak points of lesson in addition to prerequisite lessons. This paper proposes an Intelligent Examination framework (I-EXM), which achieves two different types of adaptivity: a) Student receives immediate feedback during MC exam, b) Teacher monitors and tracks the students' attempts and measure the effectiveness of his given feedback via a Visual Suggestion Refinement Tool (VSRT) using Data Mining Techniques. This type of analytical and diagnostic visual tool enables teachers to drill down from a high-level overview into the details of student activities, which ultimately allows enhancement of the concept map and the given feedbacks to match students’ needs[2].

References