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

Essam Kosba, Passant Sabri, Osama Badawy
College of Computing and Information Technology,
Arab Academy for Science and Technology and Maritime Transport (Egypt)
eng.psabri@gmail.com

Abstract

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; espacially, 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

[1] D. Ben-Naim, N. Marcus, and M. Bain,2011. Instructional Support For Teachers and Guided Feedback For Students In An Adaptive eLearning Environment presented at the IEEE, 2011 Eighth International Conference on Information Technology: New Generations.
[2] Cristóbal Romero, Sebastián Ventura, Enrique García: "Data mining in course management systems: Moodle case study and tutorial", Department of Computer Sciences and Numerical Analysis, University of Córdoba, 14071 Córdoba, Spain,2008.