NEW DYNAMIC INTERACTION GAME-BASED LEARNING TOOL FOR CHINESE MEDICINE

Yiu On LI
Hong Kong Baptist University

Lisa SONG
Hong Kong Baptist University

PAPER ABSTRACT

The idea of game-based learning is very common in most teaching community nowadays, yet the use of games to facilitate learning and teaching is still a new attempt in an historic discipline like Chinese Medicine. This presentation will share our experience on the design and implementation of our new online Chinese Medicine Game-based Exercise (CMGE).

CMGE is an initiative project to transform our open access Medicinal Plant Image Database (MPID) into a new game-based platform which comprised over 17,000 computer generated self-quiz multiple choice questions. Comparing with the use of a static and passive database (MPID) in learning and teaching process, the new self-quiz game-based platform will have the advantages to motivate interactive learning, and provide a tool for learners' self-assessment.

To assess their knowledge in a specialized area, users are freely to select questions from 12 different subject topics related to medicinal plants. These computer generated random questions may further be classified into three different difficulty levels ranked from common used medicinal plants to the rare used ones. All the answers for questions are scored automatically by the computer program, and direct links to MPID will be provided to facilitate checking the correct or incorrect answers. Users are allowed to re-take the tests if they are not satisfied with their scores. A log report will be provided for users to monitor his progress in different subject topics and difficulty levels.

Instead of restricting to individual test and assessment, the platform also stimulates public discussions and group learning. A user can easily share his high-scored personal test on a public domain, and made a challenge for their friends, classmates and even unknown self-learners of Chinese Medicine community through social network media like Facebook and WhatsApp. A dedicated built-in score comparison function is provided to measure and display the results and rankings of all participants on a public domain. With the simplicity of generating public test papers, CMGE also serves as an effective and instant feedback assessment tool for any instructors to measure and evaluate their students' understanding at anytime and anywhere.