In this study, a course knowledge discussion platform following the idea of YAHOO! Knowledge+ is constructed for learning improvement. The main functions of this platform include the following: 1) to promote discussions among students, and discussions between students and teachers after class; 2) to provide a convenient way for courses knowledge inquires; and 3) to keep students in contact with course knowledge frequently. In order to encourage students to participate in the discussions, the points gained by students during the discussions can be used as one of the basis of course evaluation. In addition, in order to encourage students to discuss and jointly resolve the problem, students may form their own group to answer questions. If a group resolved the problem, additional reward points can be obtained. As more courses and more users using the course knowledge discussion platform, the accumulated knowledge of courses by the system will become increasingly rich. The system provides functions to track problems with self-defined tags in order to facilitate the students to manage their own course knowledge of interest. In addition, a full text search function is provided to enable the students to access course knowledge in a convenient way at any time. Mechanisms are designed to encourage students to actively participate in daily browsing questions and answers, asking questions and answering questions. Students can gain a sense of achievement during solving problems. In addition, other students can review the step-by-step process to learn how to solve the problem, and will find themselves the common misconceptions made. Teachers can then clarify on these misconceptions in the classroom. Experimental results showed that this approach is indeed useful to effectively improve the effectiveness of student learning.
包景濂、李其瑋，Web-based社群學習系統之互動策略環境設計開發，TANET 2001 & ELCPE 2001。
林邵珍，運用ARCS動機設計模式之生活科技教學，生活科技教育月刊，第36卷，第4期，2003年。
孫足承、高禾淳，網路學習社群參與知識分享行為之研究，2009數位學習創新與應用研討會。
黃燕忠、陳毅安，知識社群教學平台之研究，2008學習型知識社群與數位學習研討會。
游耿能、王雨涵，應用Wiki平台輔助一個設計繪畫課程教學的群組活動，2009數位學習創新與應用研討會。
劉旨峰，以網路討論區輔助學生學習計算機概論，教學科技與媒體，第80卷，37-57，2007。
劉旨峰、簡佩芯，非同步討論區與形成性教學評鑑之個案探討，數位學習科技期刊，第2卷，第1期，2009。
劉明祥、魏裕昌，網路知識分享社群成員參與動機與滿意度之研究 - 以知識+為例，2008知識社群與系統發展研討會。