AN INTELLIGENT RECOMMENDATION SYSTEM FOR TEACHING

Michael Watkins¹*, Kanokwan Watkins² and Nutsana Napayap³

¹ Faculty of Arts, Murdoch University, Australia
² Dean, Didyasarin International College, Hatyai University
³ Head, Department of Digital Media Design, Didyasarin International College, Hatyai University

*Corresponding author, E-mail: kanokwan@hu.ac.th

Abstract

Within Thailand, many universities face the problems of student dropouts or failures before graduations. In order to improve and support the academic management processes, some universities are developing innovative information systems and services with an aim to enhance efficiency and retain the students to graduations. Moreover, the information technological support can also improve student relationship with universities. One of the key initiatives is the development of Student Relationship Management Systems (SRM) and among their functions, is the provision of recommendation and advice for students. Intelligent Recommendation systems allow personalization for counseling. The objective of this research is to develop and apply intelligent techniques and methodologies to a recommendation system for recommending teaching styles to match with learning styles of students. This includes recommending activities and games for teachers in order to give lecture in the classroom. The proposed techniques will be implemented and evaluated based on classification models. The best model will be chosen to apply in the intelligent recommendation system for teaching, and a drop-out recommendation module is employed to the system.

Keywords: intelligent recommendation system, SRM, data mining.