

Abstract

There are some aspects that are not considered in the implementation of learning so as to reduce the quality of learning. These aspects include the knowledge of the learner knowing the learning style of each student and the students' awareness of their learning style. In previous research shows with learning style detection can provide benefits to teachers and students in implementing learning. Therefore, in this study, ubiquitous learning system has been developed which has a new paradigm with the concept of "doing the right thing in the right place and at the right time in the right way" to detect learning style using literature-based method approach. The pattern of user behavior when accessing the system will be recorded in the student activity datalog then continued with the calculation of hint calculation obtained so that learning styles are detected for providing learning content recommendations and adaptive interface. Based on the results of tests conducted to determine the suitability between the recommendations given based on the learning style detection results of each student, can be seen that the test evaluation results are obtained value of 65.83 for dVisit which is the value of comparison between the number of student visits to the content before and after a recommendation. By looking at the results of the evaluation of the test, it can be concluded that the recommendation of learning content and adaptive interface display is in accordance with learning style detection result. This is evidenced by the frequent students visiting learning content.

Keywords: learning style, ubiquitous learning, literature-based method