

## ABSTRACT

Web Usage Mining plays an important role in recommender systems and web personalization. In this work, It is proposed an effective recommender system based on ontology and Web Usage Mining. The first step of the approach is extracting features from web documents and constructing relevant concepts. Then build ontology for the web site use the concepts and significant terms extracted from documents. It is an integrated system to support learners' reviews. The review dashboard is used to recommend review contents that are adaptive to the individual learner's level of understanding and to present other information that is useful for review. The pages of the digital learning materials that are estimated to be insufficiently understood by each learner and the web pages related to those pages are recommended. As a method for estimating such pages, It is considered extracting the pages related to the questions that were answered incorrectly. According to the semantic similarity of web documents to cluster them into different semantic themes, the different themes imply different preferences. The proposed approach integrates semantic knowledge into Web Usage Mining and personalization processes.