INICIACIÓN A LA INVESTIGACIÓN
REVISTA ELECTRÓNICA
UNIVERSIDAD DE JAÉN
Volumen: nº artículo; año

Folksonomy in recommender system applied to the heritage domain

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Currently there exists huge amounts of information in which any user can feel overloaded if his/her aim is to find an item related to his/her needs or preferences. This situation happens not only in technology, business or leisure items but also in heritage related items due to the wide-range of options that the user should manage in his/her search, making harder to make a decision about what item is the most suitable for his/her preferences. The user should review all items spending too much time and effort searching for the best option and probably at the end he/she would be unable to do it due to the huge number of items revised. On the other hand, when an expert introduces information about a heritage element can obviate information which can be useful for the person who is looking for something related with his or her previous preferences. Among different options to address these problems has arisen the social tagging recommender systems that filter the options regarding user's preferences and opinions facilitating the users the way to find out the most suitable item according to their own needs and preferences. These systems apply different techniques to compute personalized recommendations, by applying content-based recommendation based on a tagging process improved by a folksonomy. It allows different users the labelling of any element that they already know by tags the users consider useful for other persons. In this contribution we present a content-based recommender system (CBRS) prototype for cultural heritage which allows users label different elements by using an ontology-driven folksonomy based on the cultural heritage domain in order to improve other recommender systems based on collaborative filtering in the same domain.