

A product recommendation system considering sentiment and implicit information

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ABSTRACT

In the Internet, more and more people have shared their photo and video on social networks with their family members and friends during travelling. To help tourist get helpful landmark suggestion, this research proposes a recommending Top-K landmark framework using user-generated contents in a photo sharing social network. The architecture proposed in this research consists of five phases. First, this research divided time into several time slots so that later suggestion can be more appropriate. Second, the Mean-shift clustering method is used to cluster geotagged locations into landmark. Third, the Latent Dirichlet Allocation (LDA) model is applied to category the hashtags into landmark topics. Based on these topics, it derives a landmark feature vector for each landmark vector and a user feature vector for each user. Four, the landmark vectors and user feature vectors are used to compute the scores of each landmark. Finally, Top-N sequence is employed for recommendation. The experimental results show that using Mean-Shift algorithm for grouping as landmark, and classify those landmark into different categories by applying LDA model is effective for our system.