

Abstract: Adaptive Landmarks Recommendation using User-generated Digital Media

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Abstract

When travelers plan their trips, a landmark recommendation system considering properties of trip will be convenient for the travelers in determining locations they will visit. In this paper, we propose an approach to extracting and recommending landmark places from user-generated digital media. First, we examine the impact of spatial and temporal properties of a trip. Second, we present an approach that efficiently extracts landmark places from social media and recommends relevant landmarks based on properties of a trip. Our approach is to construct a vector that weights frequently visited places under the similar conditions of a trip, and then to re-rank landmarks based on the vector. We evaluated our proposed approach for the improvement of accuracy in recommending landmark places. According to our evaluation results, the approach enhances the accuracy of recommended landmarks by 32% in the size of a city and by 53% in the size of a state, compared to a baseline approach. Thus, we expect that the proposed approach is helpful in advancing landmarks recommendation.

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