

Building user profiles based on sequences for content and collaborative filtering

P. Sánchez Pérez; A. Bellogín

Abstract-

Modeling user profiles is a necessary step for most information filtering systems — such as bounded interval (normalization functions). These parameters can be extended to work with any type of sequential algorithm.

We evaluate our approach with several state-of-the-art evaluation metrics measuring the accuracy, diversity, and novelty of the recommendations, and analyze the impact of the proposed parameters. We have found that our approach offers a competitive performance, outperforming content, collaborative, and hybrid baselines, and producing positive results when either content- or rating-based information is exploited.

Index Terms- Hybrid recommender systems; Preference filtering; Content-based filtering; Collaborative filtering; Longest Common Subsequence

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