An Efficient User Interest Extractor for Recommender Systems

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Abstract—

This paper proposes an efficient method to

extract user interests for recommender systems. Although

item-item content similarity has been widely used in the

literature, it could not detect certain user interests. Our

solution improves the current work in two aspects. First, it

improves the current recommender systems by detecting

actual user interests. Second, it considers many types of user

interests such as single-term interest, time interval interest,

multi-interests, and dislikes. This extractor would improve

recommender systems in many aspects. Our experiments show

that our proposed method is efficient in terms of accuracy and

execution time.