

# 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.