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Content - boosted matrix factorization techniques for recommender systems

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Abstract

Many businesses are using recommender systems for marketing outreach. Recommendation algorithms can be either based on content or driven by collaborative filtering. We study different ways to incorporate content information directly into the matrix factorization approach of collaborative filtering. These content - boosted matrix factorization algorithms not only improve recommendation accuracy, but also provide useful insights about the contents, as well as make recommendations more easily interpretable. © 2013 Wiley Periodicals, Inc. Statistical Analysis and Data Mining, 2013

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