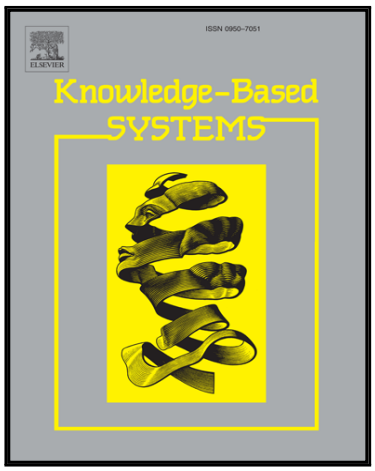

Mixed Similarity Learning for Recommendation with Implicit Feedback

Mengsi Liu, Weike Pan, Miao Liu, Yaofeng Chen, Xiaogang Peng, Zhong Ming

PII: S0950-7051(16)30504-4
DOI: 10.1016/j.knosys.2016.12.010
Reference: KNOSYS 3761

To appear in: *Knowledge-Based Systems*

Received date: 13 June 2016
Revised date: 8 December 2016
Accepted date: 9 December 2016

Please cite this article as: Mengsi Liu, Weike Pan, Miao Liu, Yaofeng Chen, Xiaogang Peng, Zhong Ming, Mixed Similarity Learning for Recommendation with Implicit Feedback, *Knowledge-Based Systems* (2016), doi: 10.1016/j.knosys.2016.12.010

Highlights

- We study an important recommendation problem with implicit feedback from the perspective of item similarity.
- We exploit the complementarity of the predefined similarity and the learned similarity via a novel mixed similarity model.
- We develop a novel recommendation algorithm, i.e., pairwise factored mixed similarity model (P-FMSM), based on the mixed similarity and pairwise preference assumption.
- We showcase the effectiveness of P-FMSM as compared with several state-of-the-art methods on four public datasets.