

Recommender systems review

SARAPULOV G. V.

Saint-Petersburg State University

g-eos@yandex.ru

25 марта 2018 г.

1 Collaborative Filtering for Implicit Feedback Datasets

1.1. Vocabulary

1. implicit feedback - неявная обратная связь
2. substantial - существенный
3. tailored - специально приспособленный
4. abundant - богатый, обильный
5. reluctance - нежелание
6. inherently - по существу, от природы
7. holistic - целостный
8. comprise - содержать, включать
9. strive - стараться, прилагать усилия

1.2. Annotation

Unique properties of implicit feedback datasets are identified. A new factor model based on treating data as an indication of positive and negative preference with varying confidence levels is proposed. Resulting model is proven to be especially tailored for implicit feedback recommenders. A linearly scalable optimization procedure for proposed algorithm is suggested. In addition, a novel way of explaining recommendations given by the system is offered.

Список литературы

- [Yifan Hu et al, 2008] Yifan Hu , Yehuda Koren , Chris Volinsky, Collaborative Filtering for Implicit Feedback Datasets, Proceedings of the 2008 Eighth IEEE International Conference on Data Mining, p.263-272, December 15-19, 2008
- [Pennington et al] Jeffrey Pennington, Richard Socher, and Christopher D. Manning. GloVe: Global Vectors for Word Representation. 2014