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现代图书情报技术
NEW TECHNOLOGY OF LIBRARY AND INFORMATION SERVICE

基于多兴趣特征分析的图书馆个性化图书推荐方法

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摘要 应用渐进遗忘策略和滑动窗口相结合的更新算法等,建立读者的兴趣词库和索引库,进而建立读者的多兴趣特征库。分别计算读者兴趣特征的特征词库以及索引库与书籍的相似度,将这两种方法计算出的相似度进行线性叠加,建立具有可操作性和扩展性的混合推荐算法,从而实现图书馆书籍的个性化推荐方法。该方法综合利用《中图法》中书籍所属的索引类别,能有效解决数据稀疏问题。最后对相关实验内容和结果进行详细说明。

关键词： 个性化推荐 渐进遗忘策略 兴趣特征 混合推荐

Abstract： This paper firstly constructs the multi-interest feature library from readers' interest lexicon and index with update algorithms combining gradual forgetting strategy and sliding window, then calculates the similarity measures of readers' interest lexicon and index with books, and adds the two similarity with linear superposition to propose an operable and extensible hybrid recommendation algorithm. This algorithm synthetically uses the index types of books in Chinese Library Classification, and effectively solves the problem of data sparseness. Finally, the paper achieves a personalized recommendation system of the library books, and correlative experimental results are introduced in details.

Keywords： Personalized recommendation, Gradual forgetting strategy, Interest feature, Hybrid recommendation

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