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## 图像检索中基于长期学习的动态用户模型

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### Abstract

This paper proposes a probabilistic model incorporating long-term learning to estimate a dynamic user model. By using RF sequence as the user pattern, the approach can gradually update the prediction of current user based on matching the current user pattern with the user patterns in log. Compared with the invariant user model in PicHunter, the model is capable of dynamically adjusting when more user actions are observed, thus provides more accurate prediction for probability distribution. Experimental results on 11 000 images show that this approach can improve the retrieval accuracy apparently.

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### 摘要

提出一个结合长期学习的概率检索模型,即通过估算一个动态的用户模型来预测目标图像的概率分布.系统以反馈序列为用户模式,通过与反馈日志中用户模式的匹配,动态地调整对当前用户的预测.与PicHunter传统用户模型相比,此系统基于长期学习的方法,通过对用户反馈的观察,动态地调整当前的用户模型,从而更精确地推断当前用户的反馈行为.对1.1万幅图像数据库的实验表明,与已知方法相比,此方法对检索精度有明显的改善.

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