

### 基于局部线性嵌入的视频拷贝检测方法

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### A LLE-based Video Copy Detection Method

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摘要

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**摘要** 该文提出了基于局部线性嵌入(LLE)的视频哈希方法,该方法首先利用一个图模型选取代表帧,然后以四阶累积量作为视频在高维空间的特征并利用LLE对视频进行降维,利用视频在3维空间中投影点的范数构造视频哈希序列来实现视频拷贝检测。实验证明该方法具有较好的鲁棒性和区分性。

**关键词:** 视频哈希 拷贝检测 鲁棒性 局部线性嵌入

**Abstract:** A video hashing based on Locally Linear Embedding (LLE) is proposed in this paper. In this method, some representative frames are first selected based on a graph model, and four-order cumulants are taken as features of video in the high dimensional feature space. Then the video is mapped to a three-dimensional space using LLE, and video hash sequence is generated using the norms of points in the three-dimensional space to detect video copies. Experimental results show that the video hashing has good robustness and discrimination.

**Keywords:** Video hashing Copy detection Robustness Locally Linear Embedding (LLE)

Received 2010-09-14;

**本文基金:**

国家973计划项目(2009CB320905)和国家自然科学基金(60872024, 60970048, 61001180)资助课题

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**引用本文:**

聂秀山, 刘琚, 孙建德, 秦丰林. 基于局部线性嵌入的视频拷贝检测方法[J] 电子与信息学报, 2011, V33(5): 1030-1034

Nie Xiu-Shan, Liu Ju, Sun Jian-De, Qin Feng-Lin. A LLE-based Video Copy Detection Method[J], 2011, V33(5): 1030-1034

**链接本文:**

<http://jeit.ie.ac.cn/CN/10.3724/SP.J.1146.2010.01007> 或 <http://jeit.ie.ac.cn/CN/Y2011/V33/I5/1030>

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