Abstract

Identification and verification of a video clip based on its content fingerprints to find applications in video browsing, large database set and it also take a lesser amount of time to find matches of video clip in the copyright applications. A fingerprint extraction algorithm is used along with a fast approximate search algorithm in order to simplify and speeden with the process. The fingerprint extraction algorithm extracts compact content-based signatures from special images denoted by temporally informative representative images, constructed from the video. Each such image represents a short segment of the video and contains temporal as well as spatial information about the video segment. To find whether a query video or a part of it is copied from a video in a video database, the fingerprints of all the videos in the database are extracted and stored in advance. The search algorithm searches the stored fingerprints to find close enough matches for the fingerprints of the query video. The fast approximate search algorithm
facilitates the online application of the system to a large video database of millions of fingerprints and if a match occurs it is identified in a matter of seconds.

References

- FAN-HUI KONG, "Image retrieval using both color and texture features", July 2009.

Index Terms

Computer Science Emerging Trends in Technology

Keywords

Content-based Video Copy Detection Illegal Video Copy Detection Video Copy Retrieval