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Implementing dynamic query ordering in MPEG-4 for identifying forged video clip

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ABSTRACT

The manual checking of video whether it is a sequence part of the original video sequence by checking the whole video is cumbersome. The proposed method involves finding the location of the most resembling video sequence keeping the video clip Q required by the user as reference from a database that contains a collection of video sequence S. The proposed method has its application in various fields such as Recognition for copyright enforcement and TV commercial detection. The main reason why Data mining attract the world in the recent years is that it enables data storage and retrieval in efficient manner. The proposed methodology helps the user to effectively search the video sequence and and effectively finds out the resembling video sequence. Thus this system when implemented proves to be time saving and cost effective.

KEY WORDS: Dynamic Query Ordering (DQO), Data mining, MPEG-4

1. INTRODUCTION

As the result of content editing a change in video sequence or size of the original video clip occurs which can be found by our proposed scenario Dynamic Query Ordering. The proposed method involves finding out where the resembling video occurs with respect to a user defined video sequence from a database of videos. Even though there presents any changes the resembling part of the video is found out effectively. These acts of content editing has to find out which has its applications in media mainly for recognition for copyright enforcement and TV commercial detection. Larger volume of data can be stored and retrieved efficiently in Data mining but creating user-friendly data mining systems is difficult. In our paper, architecture is recommended to find the resembling video sequence with reference to the user defined video sequence and to find the presence of any change in the video sequence order and size of the original video. Moreover our proposed paper requires no Pre-Segmentation and enables Fast computation.

Video retrieval for forged clip identification: Keeping content boundaries as limit a larger collection of video is cut into similar lengths which is a result of Retrieval task. On the contrary to the small boundary finding the proposed paper involves no former fragmentation of the video sequence.

Related work: All current scenarios such as k-NN Search, Bipartite Graph, Dense Segment Extract requires pre segmentation

Dynamic query ordering: With the intension to minimize the page access count and distance computation the proposed Dynamic Query Ordering (DQO) algorithm performs a number of separate *k*NN executions on a particular set of data continuously. Hence, the adjacent vectors of feature in a video are similar; the probability that the result of subsequent queries will be similar is high, which naturally increases the retrieval efficiency.

Effectiveness and efficiency: Hit Ratio is a measure used to evaluate the effectiveness of our proposed method, it is the number of attempts to identify the forged video clip and the proportion to the overall attempts of queries. The evaluation of the query clips ground-truth value of the unchanged video it should be manually inspected. Execution Time is taken as the criteria to prove our proposed system is more effective than the existing systems.

2. CONCLUSION

The proposed paper suggest a new technique for finding out the resembling video sequence from the video sequence in the database keeping the user defined video sequence as reference. Practically, as a result of content editing different ordering of video clips occur which results in cross mappings. As a contrary to the existing systems the proposed system requires no former fragmentation of the videos.

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