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Piracy Protection using DWT & Hashing

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Abstract - *It is said that "Piracy is a crime, as it kills creativity". Piracy can create a huge mess if hacked. When a user uploads any video he is not aware about the hackers sitting at the next corner. Using this system a user is enabled with a facility to provide an uploading platform for videos where while uploading a video watermarks are applied. Key frame extraction is done. Hash key is generated and then stored in the database. If anyone is uploading a video watermarks are applied and hash key is generated. As all the contents of the video are already present that video cannot be uploaded. If anyone tries to crop that video then the video is checked that how much percent of the video gets matched and email is sent to user and notified about the piracy user data from external or internal threats.*

Key Words: Database, Hashing, Hash key, Watermark, Key frame.

1. INTRODUCTION

Today's generation believe in uploading data wherever they go and whenever they want. Using this system a user is enabled with a facility to provide an uploading platform for videos where while uploading a video watermark using DWT is applied and Key frame extraction is done.

A Hash key is generated and then stored in the database also. If anyone tries to upload a video and it matches the previous one then the uploading will be denied to the user. If anyone tries to crop that video then the video is checked for how much percentage of the video gets matched and based on that calculation an email is sent to the user to notify about the piracy. Hackers and Copycats can be identified through this system. This is used to avoid uploading of any anonymous data from compromised sources and to maintain the data integrity.

2. EXISTING SYSTEM

Now a day's most of the users over internet use public cloud to upload and store their data. In fact users prefers to store any amount of data on PCS (public cloud system), it may be normal videos or files to a large amount of an images. For example, anyone can upload any type of video therefore can duplicate video so remove duplicity we are use this system to avoid it.

3. DISADVANTAGE OF EXISTING SYSTEM

1. In this system anyone can upload video as it may be already presented on given website.

4. LITERATURE REVIEW

In today's digital era, the technique used to hide copyright information (watermark) into the digital audio signal is termed as audio watermarking. Audio watermarking is an excellent approach to provide a solution to mitigate challenges that occur from easy copying and distribution of audio files that are being downloaded or uploaded through the web. The audio watermarking algorithms proposed earlier were implemented by image or binary logo or a unique pattern as watermark.

The paper presents a new method to defeat camcorder piracy and realize content protection in the theater using a new paradigm of information display technology, called Temporal Psycho visual Modulation (TPVM), which utilizes the differences between the human-eye perception and digital camera image forming to stack an invisible pattern on digital screen and projector. The images formed in human vision are continuous integration of the light field, while discrete sampling is used in digital video acquisition which has "blackout" period in each sampling cycle.

The robustness of the proposed watermarking algorithm over various attacks (speckle noise, salt & pepper noise, brightness, Gaussian noise, rotation & contrast) is verified. In the proposed embedding, the embedding carries with the wavelet & Singular value decomposition (SVD) transform coefficients of both the images (cover & watermark) & interpolation. Here the SVD coefficients of the watermark is embed in row by row & column by column sequence of the cover image's SVD coefficients.

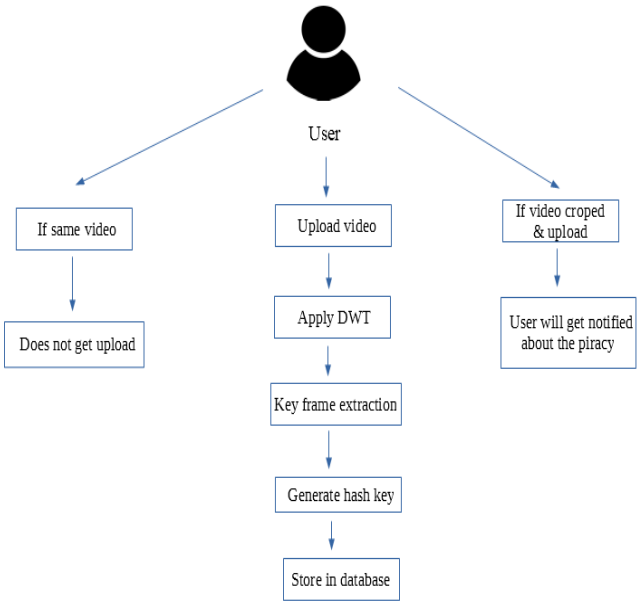
5. PROPOSED SYSTEM

The present age have confidence in posting wherever they go or whatever they do. Utilizing this framework a client is empowered with an office to give a transferring stage to recordings where while transferring a video watermarks utilizing DWT are connected. Key edge extraction is finished.

Hash key is produced and afterward put away in the database. In the event that anybody is transferring a video watermarks are connected and hash key is created. As every one of the substance of the video are as of now display that video can't be transferred. On the off chance that anybody tries to edit that video then the video is watched that how much percent of the video gets coordinated and email is sent to client and told about the theft. Programmers are recognized using this framework.

Main purpose of the system is to provide an uploading platform for videos where while uploading a video watermarks using DWT are applied. No duplicate data id uploaded twice.

6. SYSTEM ARCHITECTURE



Whenever you upload video you will apply Dwt, key frame extraction, generate hash key we will be storing that values in database. If someone try upload same video it will not possible it send an email to admin about piracy if sometimes video is cropped they also they also email from admin about piracy going out.

7. CONCLUSION

In this paper, we introduced a new uploading concept and have successfully implemented it on videos. Furthermore, we have also introduced this type of system for images and documents which is very useful in the case of Piracy protection and plagiarism.

9. REFERENCES

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