

EFFICIENT VIDEO COMPRESSION TECHNIQUE ON CLOUD STORAGE

Communication over the internet is becoming an important part of our lives. Nowadays millions of peoples spend their time on youtube, video communication and video conferencing, etc. Videos require a large amount of bandwidth and transmission time. A lot of video compression standards, techniques, and algorithms had been developed to reduce data quantity and gain expected quality as possible as can. Video compressions technologies have now become an important part of the way we create, consume, and communicate visual information. Video Compression comes up with several techniques based on their approaches that save bandwidth, memory, time, or improves the performance of existing methods or standards. We reviewed some of the techniques based on their proposed approaches. They either use transform coding, truncation or motion estimation, etc. for compression of different types of videos such as HD videos, professional videos, mosaic videos, etc. These techniques work on either on pixels or blocks or on frames of videos, which is useful for the reduction of spatial redundancies of each frame and temporal redundancy between the frames. The methods are either lossless or lossy techniques based on used concepts. Wavelet transform is an efficient method that can be used to perform an efficient compression technique. This work deals with the development of an efficient video compression approach based on cloud computing. The selection of the meaningful frame depends on many factors such as compression performance, frame details, frame size, and near distance between frames. Three different approaches are applied to remove the lowest frame difference. In this work, many videos are tested to ensure the efficiency of this technique, also, a good performance result has been obtained.