Abstract

Video summarization plays a very significant role in navigating a video, to understand its information or to search the required event information. Our proposed research work minimizes the time required for processing each of the video frames firstly, by reducing their effective size, and then it is followed by an efficient technique for generating the summarized video. The information contained in a frame is extracted using object and motion based features where the object based feature helps to evaluate the importance of the given frame compared to its neighboring frames and the motion based feature helps to estimate the dynamism of the frame. Disturbance Ratio [DR] based measurement is used in the next step to select the shot.
boundary, key frame and summary generation. The results of the proposed summarization methodology show the efficiency of our algorithm, which is further supported by a comparative study of the related research works.

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**Index Terms**

Computer Science  
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**Keywords**

Video Summarization  
Key Frame  
Information Extraction  
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