A Survey on Video Summarization Techniques

Abstract

Video summarization methods attempt to abstract the main occurrences, scenes, or objects in a clip in order to provide an easily interpreted synopsis. The main aim of Video summarization is to provide clear analysis of video by removing duplications and extracting key frames from the video. Video Summarization will divide the frames of the video into blocks and calculating the mean, variance, skew, kurtosis histogram of every block and comparing the same with the corresponding blocks of the next frame. There are many different methods used for Key frame extraction in video Summarization. Some important methods are compared. The frame with highest mean is selected as the key frame. The best method is selected based on the color distribution.

References

1. Padmavathi Mundur, Yong Rao, Yelena Yesha,(2006)'Key frame-based video summarization using Delaunay clustering' International Journal on Digital Libraries April 2006,
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Volume 6, Issue 2, pp 219-232.


6. Xiaohua He1 and Jian Ling, (2012). 'A Video Summarization Method Based on Key Frames Extracted by TMOF', IEEE.


10. The Open-Video Project: http://www.open-video.org


Index Terms

Computer Science  
Image Processing

Keywords

Video Summarization, Frames, video sequence, key frame extraction, mean, variance,
Histogram, skew.