Surveillance Video Summarization Based on Histogram Differencing and Sum Conditional Variance

Authors : Nada Jasim Habeeb, Rana Saad Mohammed, Muntaha Khudair Abbass

Abstract : For more efficient and fast video summarization, this paper presents a surveillance video summarization method. The presented method works to improve video summarization technique. This method depends on temporal differencing to extract most important data from large video stream. This method uses histogram differencing and Sum Conditional Variance which is robust against to illumination variations in order to extract motion objects. The experimental results showed that the presented method gives better output compared with temporal differencing based summarization techniques.

Keywords : temporal differencing, video summarization, histogram differencing, sum conditional variance
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