

STORYLINE RECONSTRUCTION FOR IMAGES

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-1. Motivation

Increasing number of unstructured image streams uploaded on web!!

flickr 5.26 billion public images until December 2014



You Tibe 400 hours of video per day

2. Problem

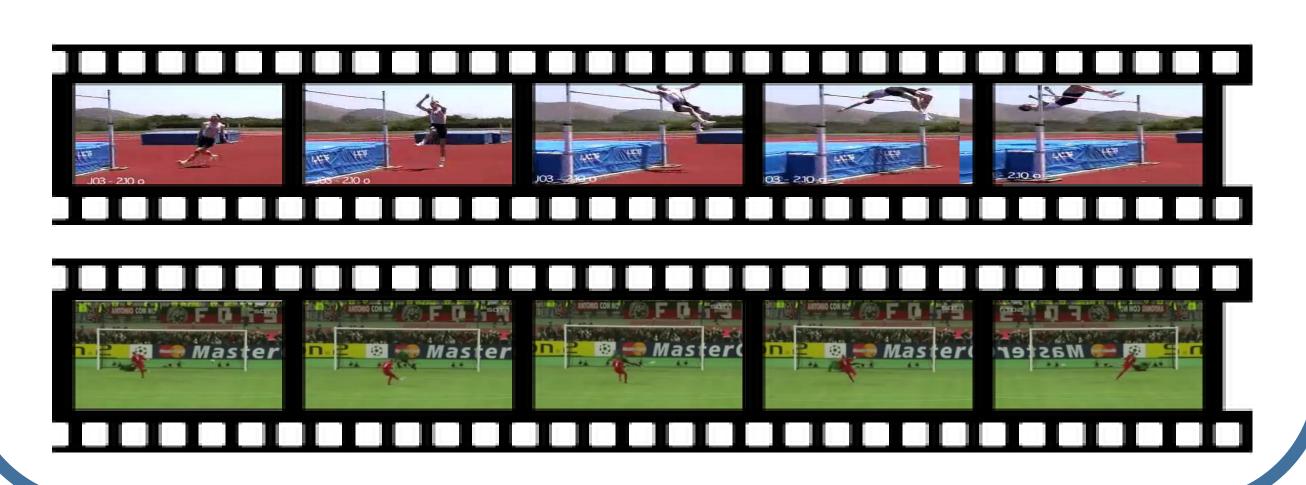
Input: Photostream – P {P1, P2, P3, P4}
Output: Chronological Sequence – P' {P3, P2, P1, P4}

Idea: 1. Cluster the keyframes generated from videos.

2. Image matching with all images in ordered cluster to get voting for correct order.

3. Dataset

- UCF101 action recognition dataset collected from YouTube videos (Sports category).
- Ten categories with 70 videos in each.

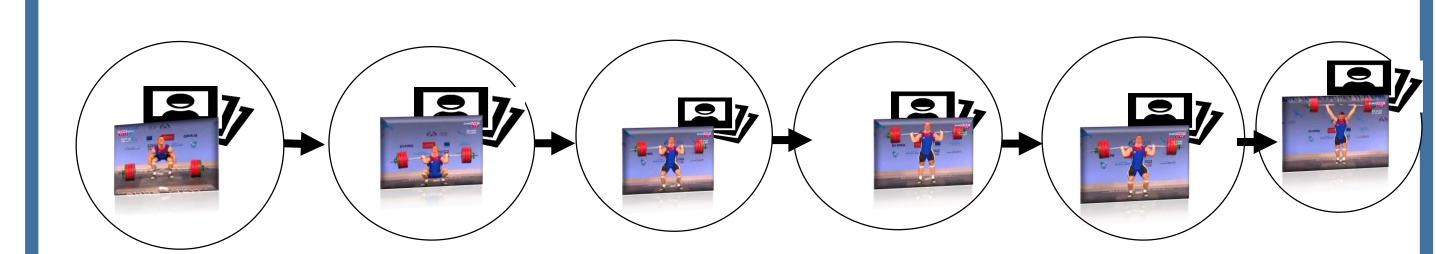


4. Approach • Generate keyfram

Generate keyframes from Video.

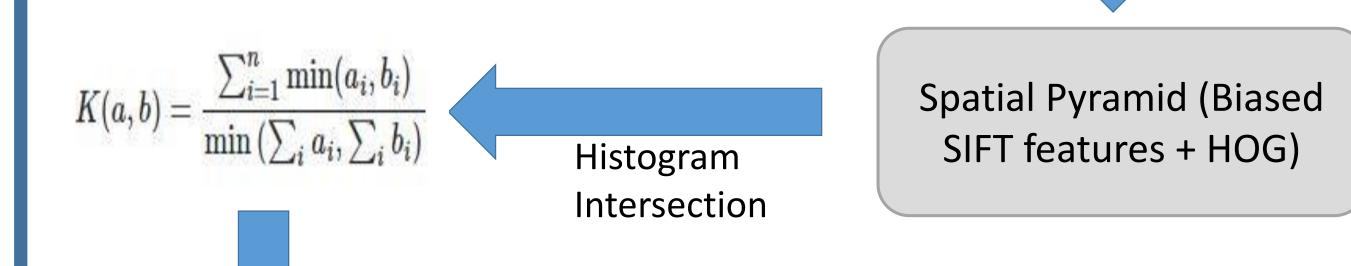


• Create ordered clusters of similar frames



Use image matching algorithm to get votes.
 Image Matching Algorithm





Match Score

5.Results

To be added later

6.References

Gunhee Kim, Leonid Sigal, and Eric P. Xing Joint Summarization of Large-scale Collections of Web Images and Videos for Storyline Reconstruction, CVPR 2014