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Title of the contribution	Improved action temporal spotting system with fisher vector
General method description	<p>We used and improved the system proposed in [1], which is in the following flow chart.</p> <p>Continuous Video → Temporal Segmentation → Clip Classification → Post Processing → Action Spotting</p>
References	<ol style="list-style-type: none"><li>1. Action and Gesture Temporal Spotting with Super Vector Representation</li><li>2. Action recognition by dense trajectories</li><li>3. Improving the fisher kernel for large-scale image classification</li><li>4. A comprehensive study of encoding , pooling and normalization methods for action recognition</li><li>5. Bag of visual words and fusion methods for action recognition: comprehensive study and good practice</li></ol>

Describe data preprocessing techniques applied (if any)	Mining some negative samples
Describe features used or data representation model (if any)	Improved dense trajectories
Dimensionality reduction technique applied (if any)	Principal component analysis
Temporal clustering approach (if any)	

Temporal segmentation approach (if any)	Sliding window
Gesture representation approach (if any)	
Classifier used (if any)	LIBSVM
Large scale strategy (if any)	

<b>Transfer learning strategy (if any)</b>	
Temporal coherence and/or tracking approach considered (if any)	
Compositional model used, i.e. pictorial structure (if any)	
Other technique/strategy used not included in previous items (if any)	
Method complexity analysis	Feature extraction → encoding methods → SVM training And prediction This is the main flowchart, and the most time-consuming part is idt feature extraction and fisher vector encoding.

**Qualitative advantages of the proposed solution**

**Mainly theory of idt feature and fisher vector coding has been testes on HMDB51/UCF101 with state of art performance in [5]. So we decided to adopt methods based on idt feature and fisher vector encoding.**

Results of the comparison to other approaches (if any)

Novelty degree of the solution and if is has been previously published

The mainly part has been published on [1]

<b>Language and implementation details (including platform, memory, parallelization requirements)</b>	<b>Matlab, we implemented training on linux and it can be tested on windows.</b>
Human effort required for implementation, training and validation?	You can just test it using the code submitted
Training/testing expended time?	About a day
General comments and impressions of the challenge	Lots of methods needs to be tested, but the one only suitable to the data can be used with good performance