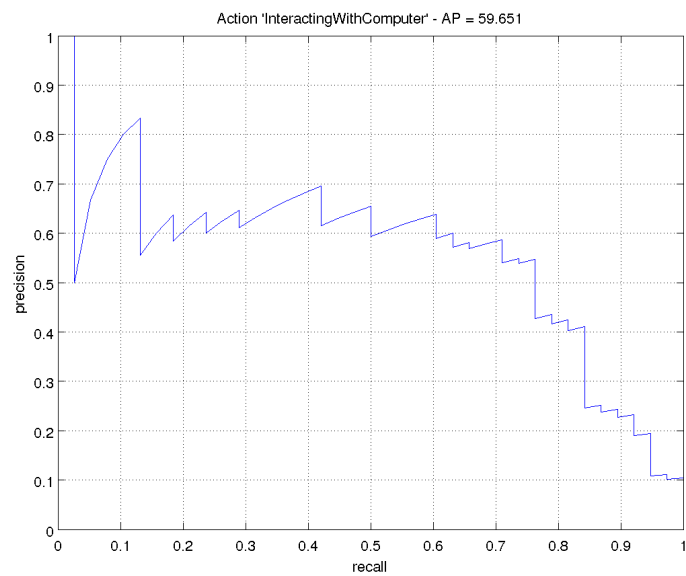


SVM[S(1vA)-C(0.0625)-J(1)-K(5)-  
Kernel(Intersection)]\_BOF[K(512)-L(3)-  
Norm(L2[N(1)])-Kmeans(cpp)]-OfChannels-  
(DENSE[S(12-14-17-20-24-29-35-42-51-61)-  
Lib(mylib)]+SIFT[Norm(L2[N(1)])-  
Lib(colorDescriptor)])

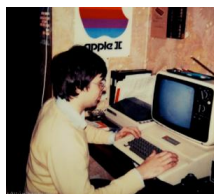
April 8, 2010

Classifier: SVM one VS all (C = 0.0625, J = 1), Intersection kernel:  $\sum_i \min(X_i, Y_i)$ , 5-fold cross-validation  
Signature: Bag of features (K = 512, histogram normalization: L2 (norm = 1),  
K-means library: cpp)  
Channels:  
(DENSE[spacing = 12-14-17-20-24-29-35-42-51-61, library: mylib]) x (SIFT[normalization:  
L2 (norm = 1), library: colorDescriptor])

# 1 InteractingWithComputer



(a) 0.58



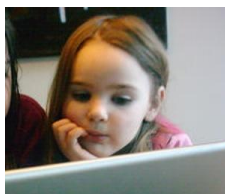
(b) 0.04



(c) 0.04



(d) 0.03



(e) 0.02

Figure 1: InteractingWithComputer: Correctly classified images, highest score



Figure 2: InteractingWithComputer: Correctly classified images, smallest score

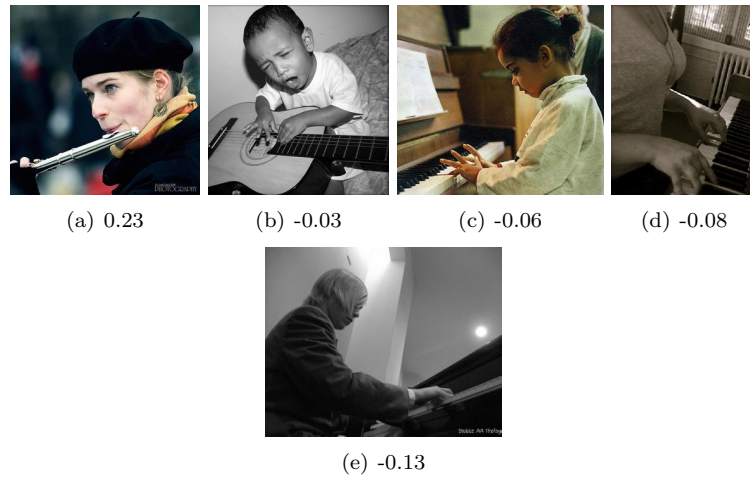


Figure 3: InteractingWithComputer: Misclassified images, highest score

## 2 Photographing

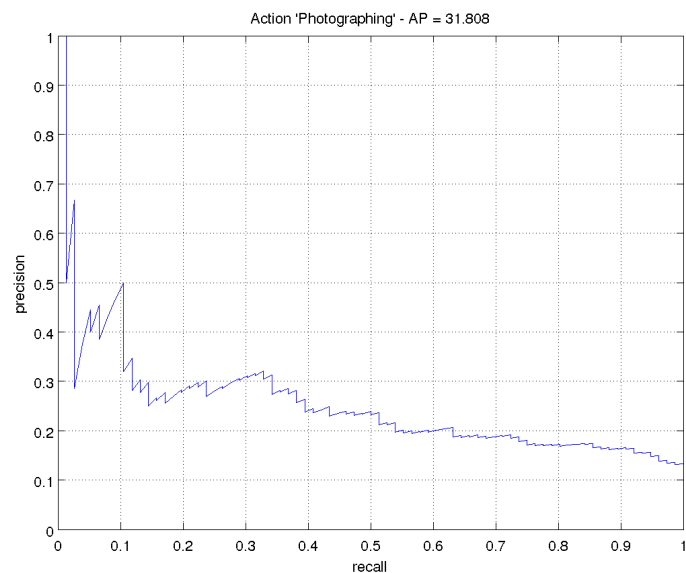


Figure 4: Photographing: Correctly classified images, highest score



Figure 5: Photographing: Correctly classified images, smallest score

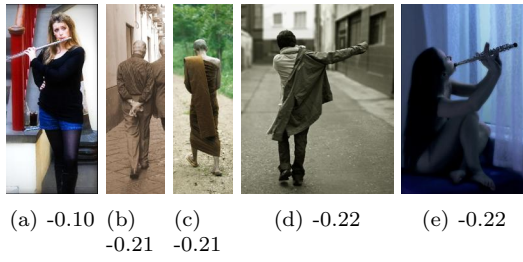
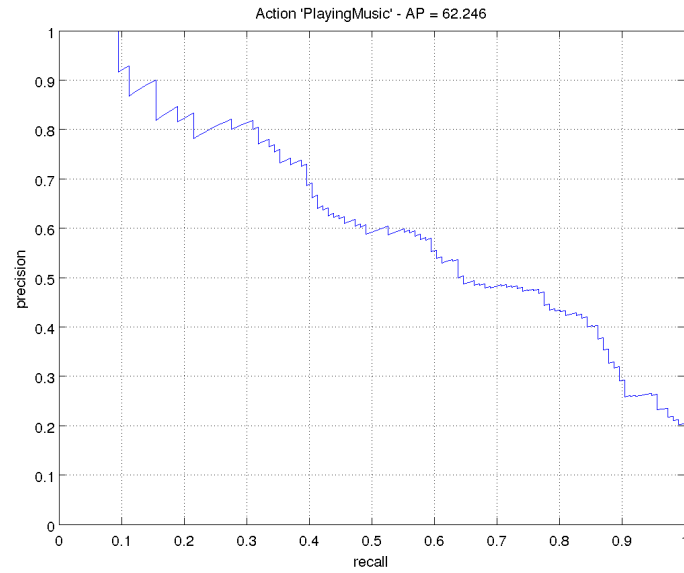


Figure 6: Photographing: Misclassified images, highest score

### 3 PlayingMusic



(a) 0.26



(b) 0.24



(c) 0.11



(d) 0.10



(e) 0.05

Figure 7: PlayingMusic: Correctly classified images, highest score

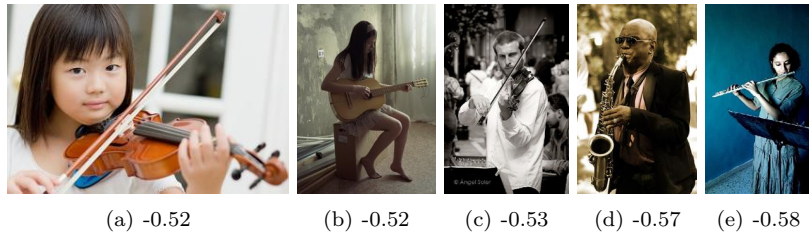


Figure 8: PlayingMusic: Correctly classified images, smallest score

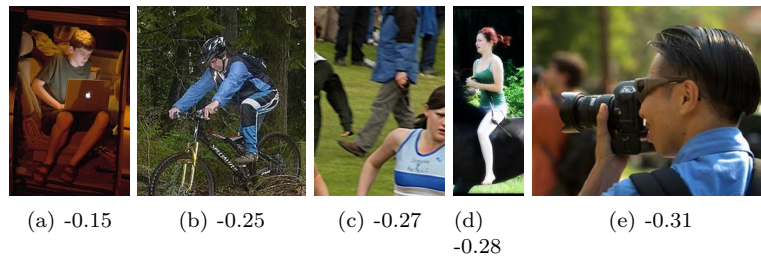


Figure 9: PlayingMusic: Misclassified images, highest score

## 4 RidingBike

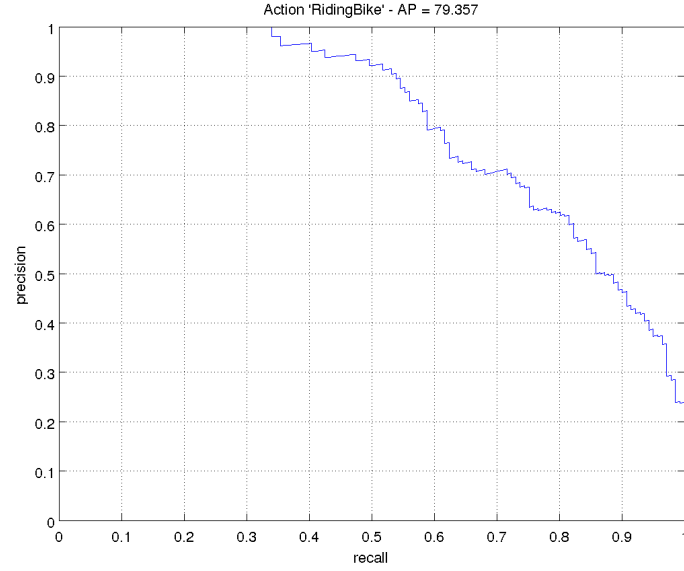


Figure 10: RidingBike: Correctly classified images, highest score

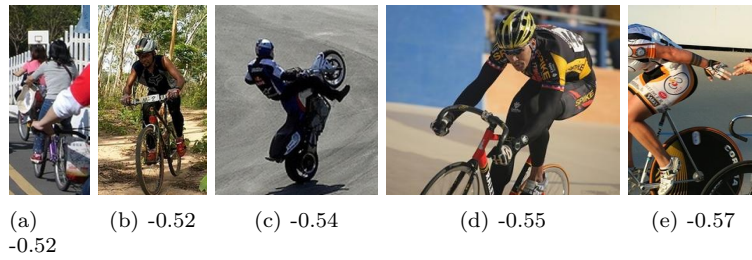


Figure 11: RidingBike: Correctly classified images, smallest score





Figure 12: RidingBike: Misclassified images, highest score

## 5 RidingHorse

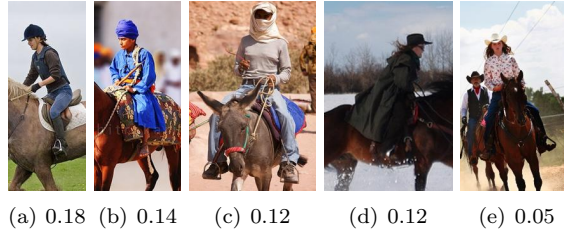
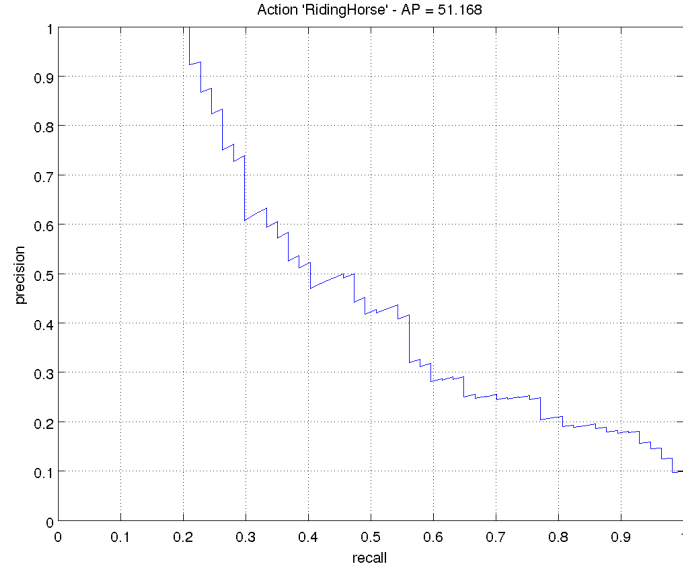


Figure 13: RidingHorse: Correctly classified images, highest score



Figure 14: RidingHorse: Correctly classified images, smallest score

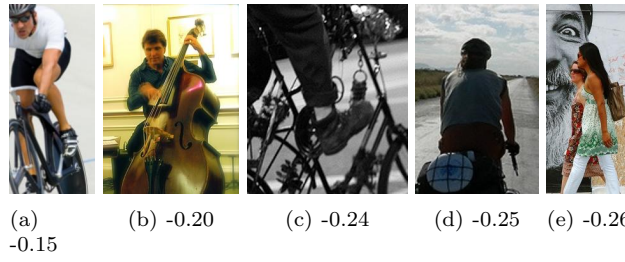


Figure 15: RidingHorse: Misclassified images, highest score

## 6 Running

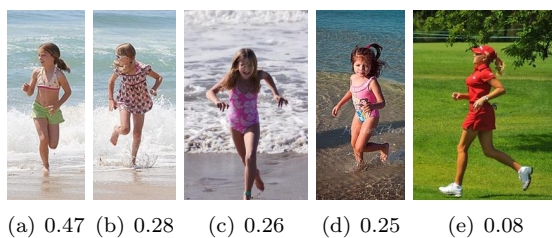
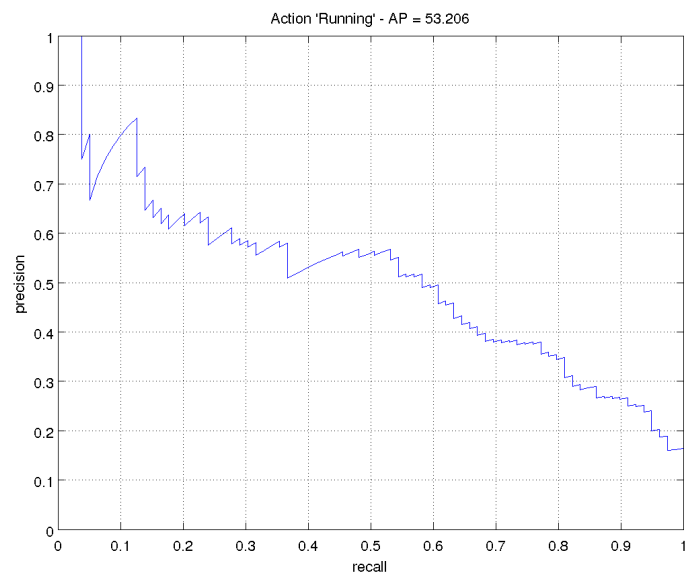


Figure 16: Running: Correctly classified images, highest score



Figure 17: Running: Correctly classified images, smallest score

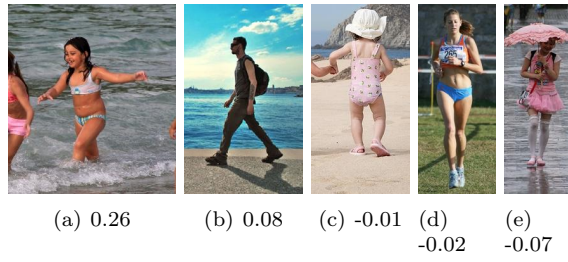


Figure 18: Running: Misclassified images, highest score

## 7 Walking

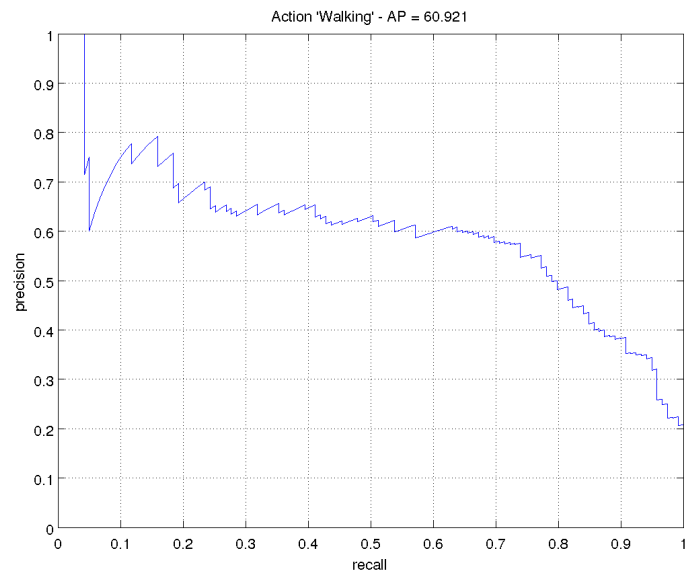


Figure 19: Walking: Correctly classified images, highest score

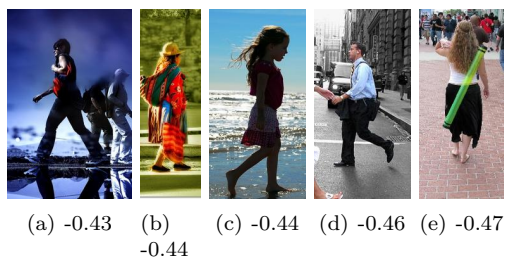


Figure 20: Walking: Correctly classified images, smallest score

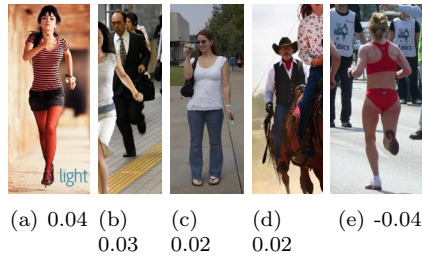


Figure 21: Walking: Misclassified images, highest score