

SVM[S(1vA)-C(0.03389)-J(1)-K(5)-
 Kernel(Chi2[A(655.8768)])]-BOF[K(512)-L(0)-
 Norm(None)-Kmeans(cpp)]-OfChannels-
 (DENSE[S(12-14-17-20-24-29-35-42-51-61)-
 Lib(mylib)]+SIFT[Norm(L2[N(1)-T(20)])-
 Lib(colorDescriptor)])

April 8, 2010

Classifier: SVM one VS all (C = 0.03389, J = 1), Chi2 kernel: $\exp(-1/655.8768 * Chi2(X, Y)^2)$, 5-fold cross-validation
 Signature: Bag of features (K = 512, histogram normalization: None, 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, truncation over 0.2), library: colorDescriptor])

1 InteractingWithComputer

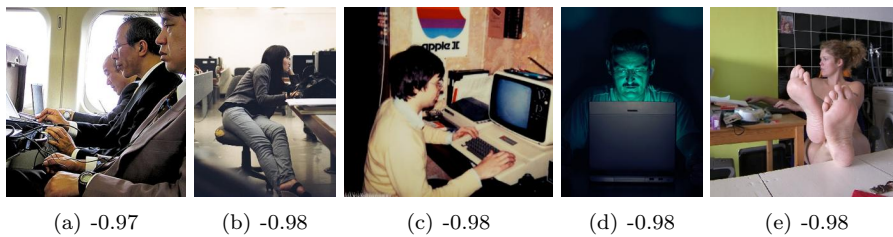
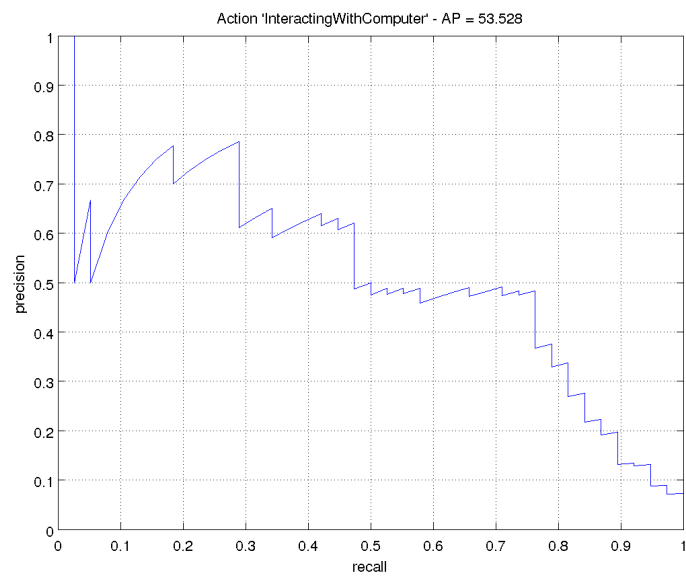


Figure 1: InteractingWithComputer: Correctly classified images, highest score



Figure 2: InteractingWithComputer: Correctly classified images, smallest score



Figure 3: InteractingWithComputer: Misclassified images, highest score

2 Photographing

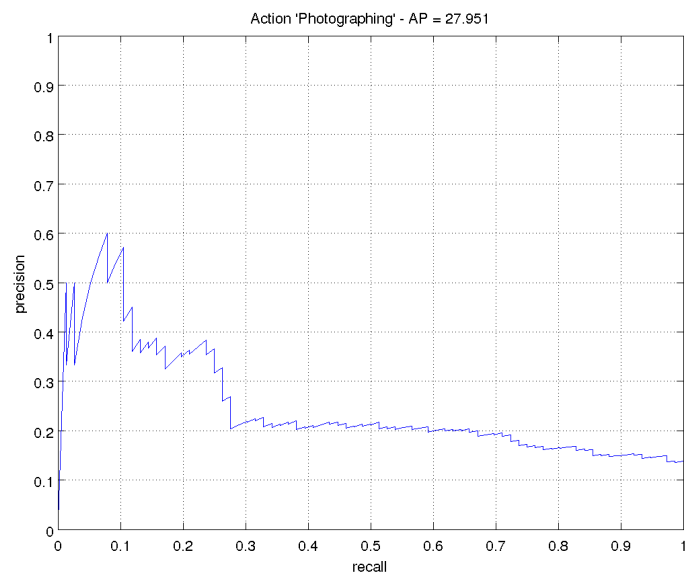


Figure 4: Photographing: Correctly classified images, highest score



Figure 5: Photographing: Correctly classified images, smallest score



Figure 6: Photographing: Misclassified images, highest score

3 PlayingMusic

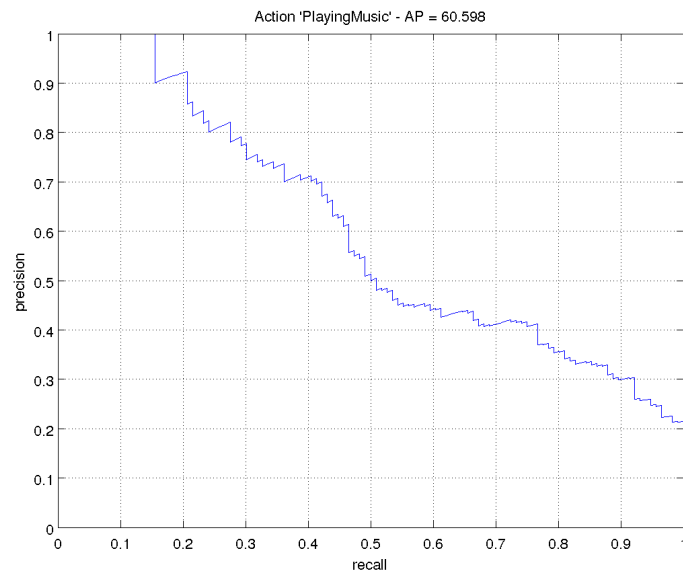


Figure 7: PlayingMusic: Correctly classified images, highest score

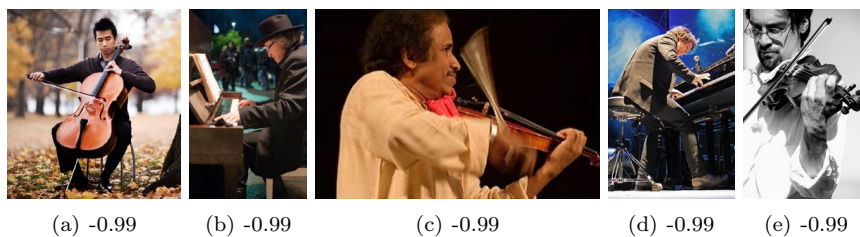


Figure 8: PlayingMusic: Correctly classified images, smallest score

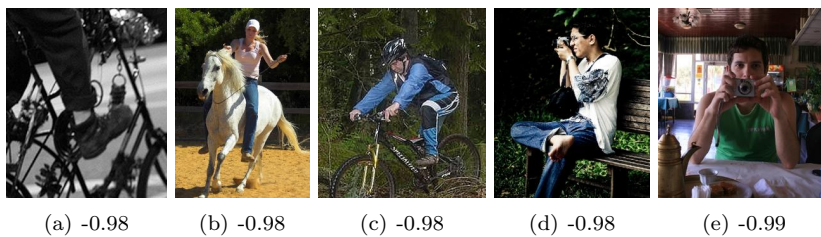


Figure 9: PlayingMusic: Misclassified images, highest score

4 RidingBike

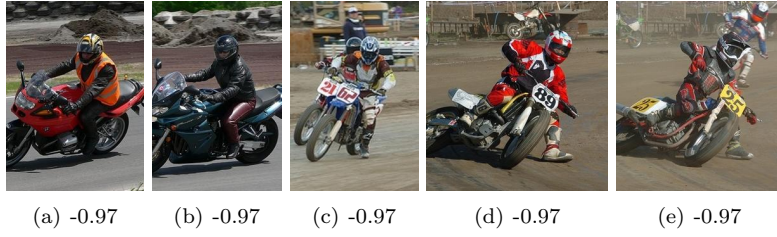
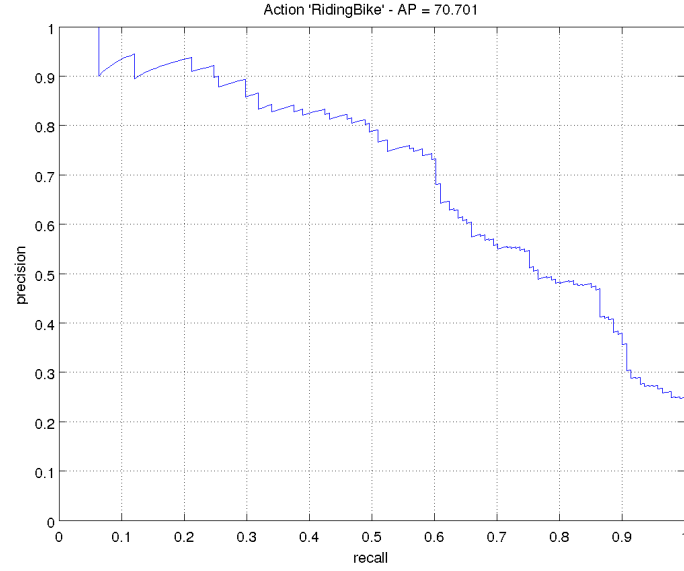


Figure 10: RidingBike: Correctly classified images, highest score



Figure 11: RidingBike: Correctly classified images, smallest score



Figure 12: RidingBike: Misclassified images, highest score

5 RidingHorse

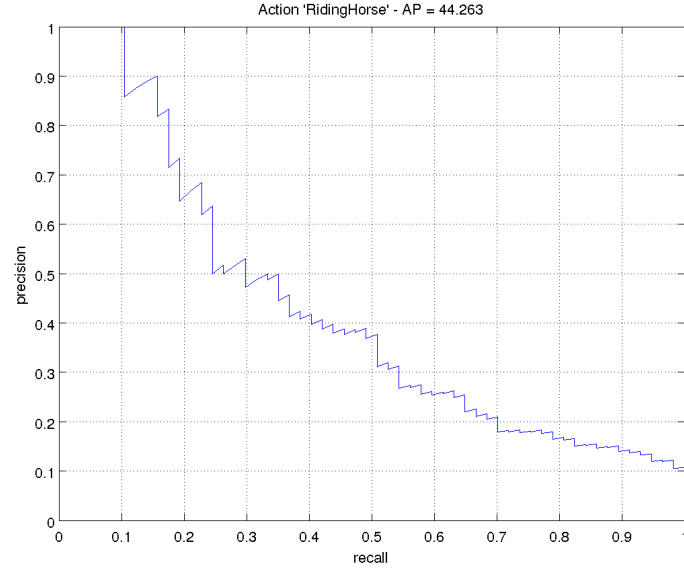


Figure 13: RidingHorse: Correctly classified images, highest score



Figure 14: RidingHorse: Correctly classified images, smallest score



Figure 15: RidingHorse: Misclassified images, highest score

6 Running

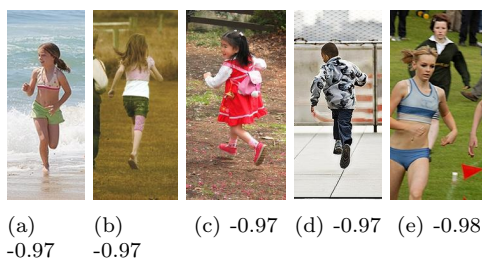
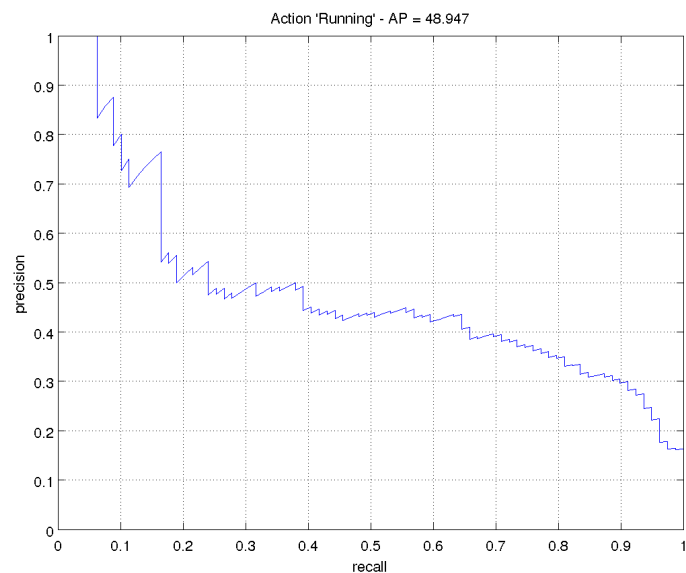


Figure 16: Running: Correctly classified images, highest score



Figure 17: Running: Correctly classified images, smallest score

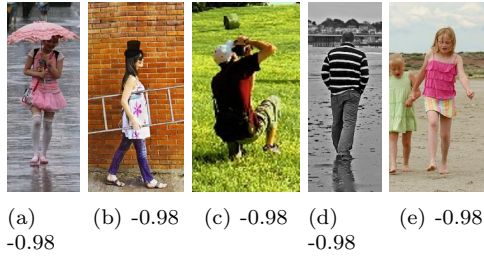
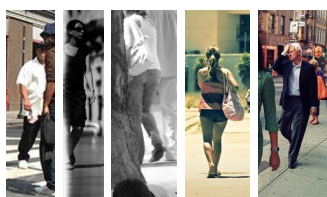
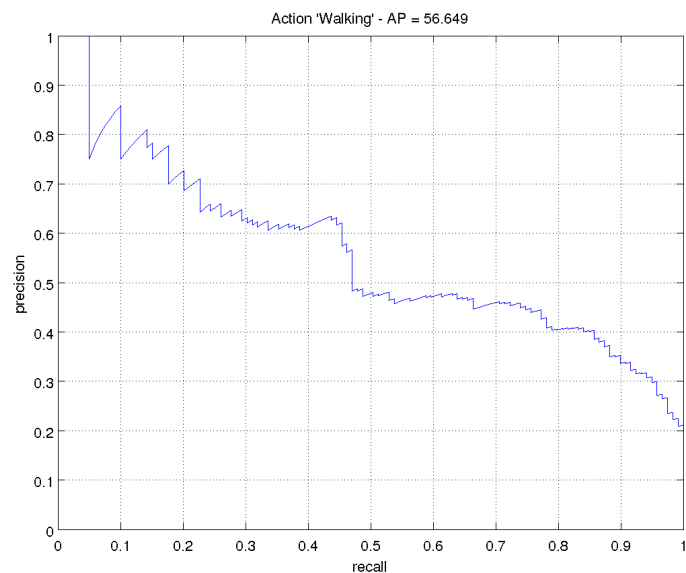


Figure 18: Running: Misclassified images, highest score

7 Walking



(a) - (b) (c) (d) (e)
0.96 - -0.97 -0.97 -0.97
0.97

Figure 19: Walking: Correctly classified images, highest score



(a) -0.99 (b) -0.99 (c) -0.99 (d) -0.99 (e) -0.99

Figure 20: Walking: Correctly classified images, smallest score

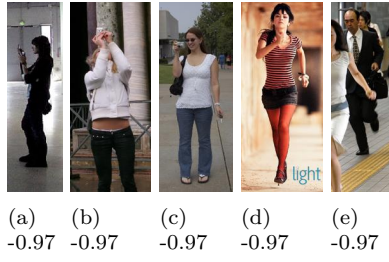


Figure 21: Walking: Misclassified images, highest score