Sparse Coding for Learning Interpretable Spatio-Temporal Primitives

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- There is a typo in the 15th line in the page 1. The correct sentence is:
  most approaches have focused on learning static primitives,

- There is a typo in the last equation in page 3. The correct one is:

\[
\min_{W, H} \| Y - \text{vec}(W) \text{vec}(H) \|_F + \lambda \phi(W) + \eta L_{p,q,r}(W)
\]

subject to \( \forall i,j,k \ 0 \leq H_{i,j,k} \leq 1, \ H_{i,j,k} = H_{i,j+1,k+1}, \ \forall k \sum_{i,j} H_{i,j,k} \leq \delta_{\text{train}} \)

- There is a typo in the last paragraph in page 3. The correct sentence is:
  We thus perform alternate minimization.

- There is a typo in the caption of figure 3. The correct sentence is:

  (walk, \( \sigma^2 = 50, e_{\text{PCA}} \)) (walk, \( \sigma^2 = 100, e_{\text{PCA}} \)) (walk, \( \sigma^2 = 50, e_{59D} \)) (walk, \( \sigma^2 = 100, e_{59D} \))

  (run, \( \sigma^2 = 50, e_{\text{PCA}} \)) (run, \( \sigma^2 = 100, e_{\text{PCA}} \)) (run, \( \sigma^2 = 50, e_{59D} \)) (run, \( \sigma^2 = 100, e_{59D} \))

- There is a typo in the caption of figure 4. The correct one is:

  (walk, \( d=4, e_{\text{PCA}} \)) (walk, \( d=10, e_{\text{PCA}} \)) (walk, \( d=4, e_{59D} \)) (walk, \( d=10, e_{59D} \))

  (run, \( d=4, e_{\text{PCA}} \)) (run, \( d=10, e_{\text{PCA}} \)) (run, \( d=4, e_{59D} \)) (run, \( d=10, e_{59D} \))

- There is a typo in the caption of figure 5. The correct one is:

  (run, \( P=1, e_{\text{PCA}} \)) (run, \( P=1, e_{59D} \)) (run, \( P=2, e_{\text{PCA}} \)) (run, \( P=2, e_{59D} \))

- There is a typo in the second paragraph in the page 7. The correct sentence is:
  Note that our method outperforms sparse coding when the output is noisy.

- There is a typo in the caption of figure 7. The correct sentence is:

  Error when using soft constraints \(|H_{i,j,k} - H_{i,j+1,k+1}| \leq \alpha\) as a function of \(\alpha\).