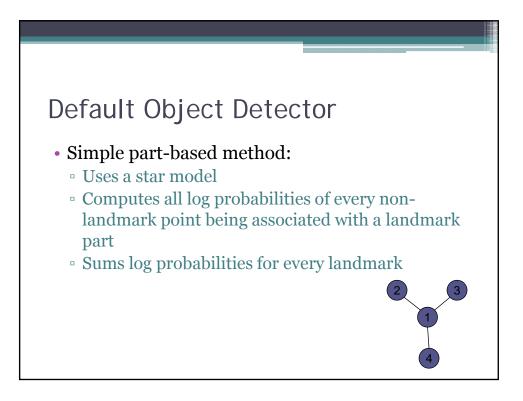
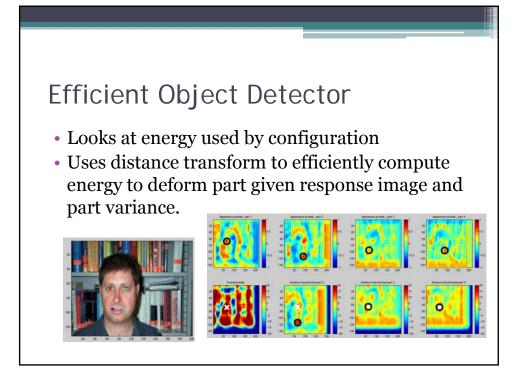
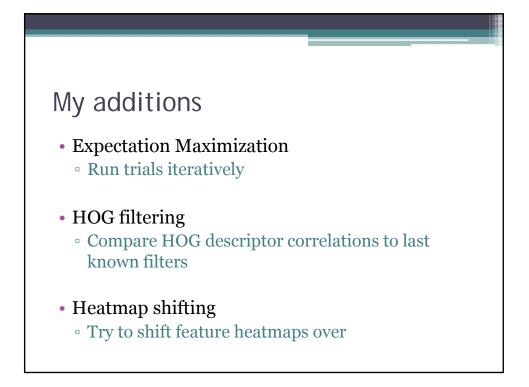


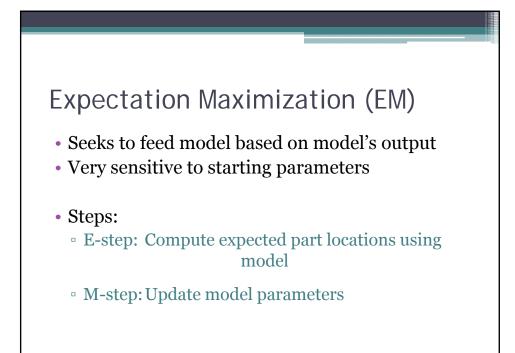


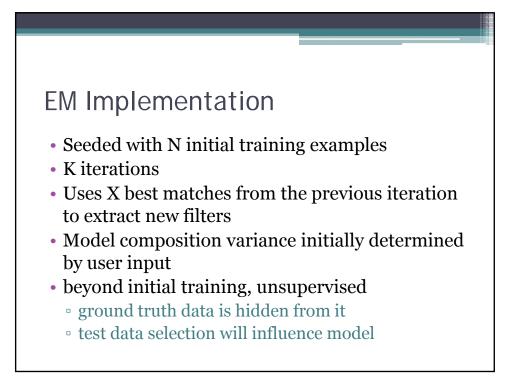
- Uses one of several particular approaches to assign scores to feature configurations
- Highest scoring match is returned with location information

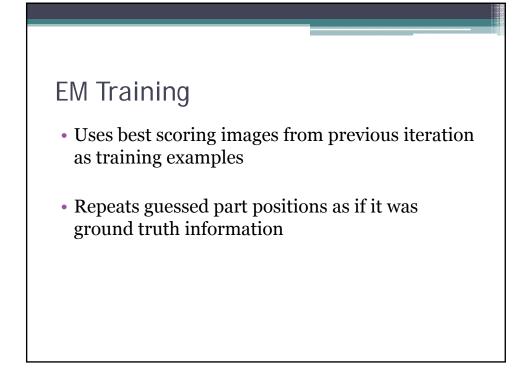


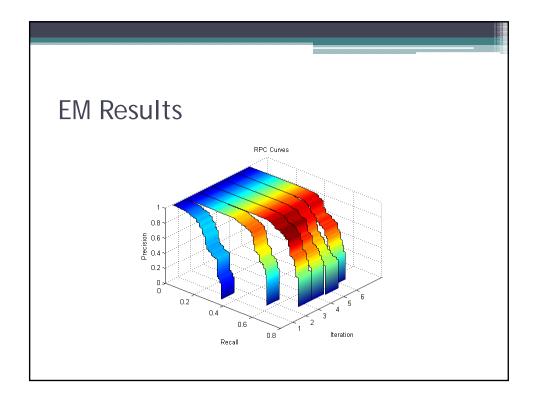


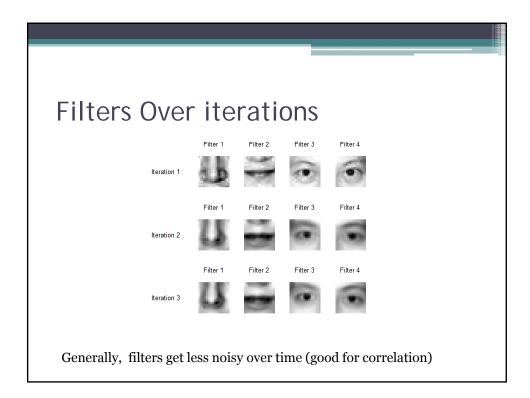


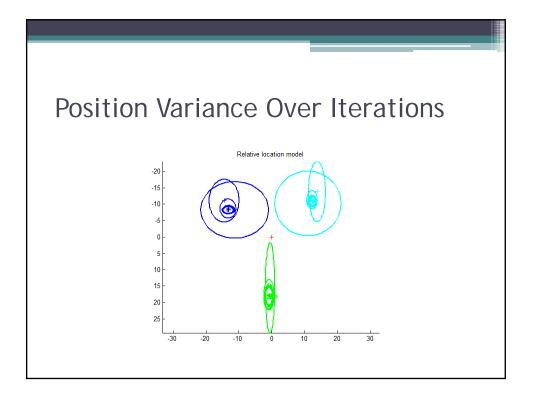


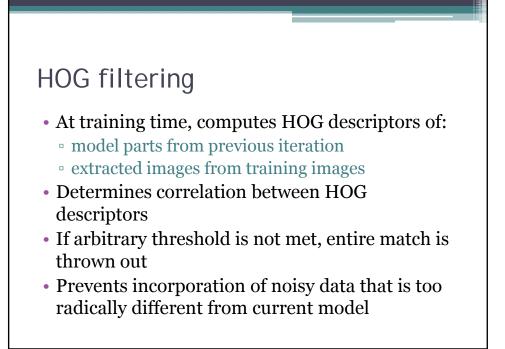




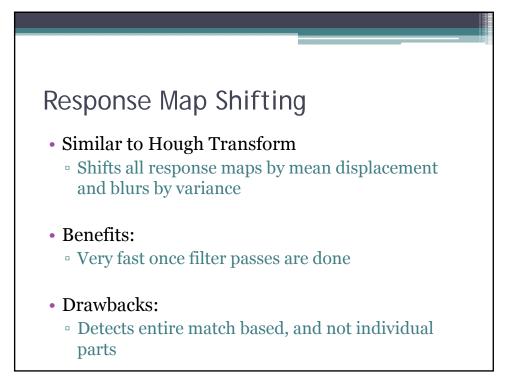


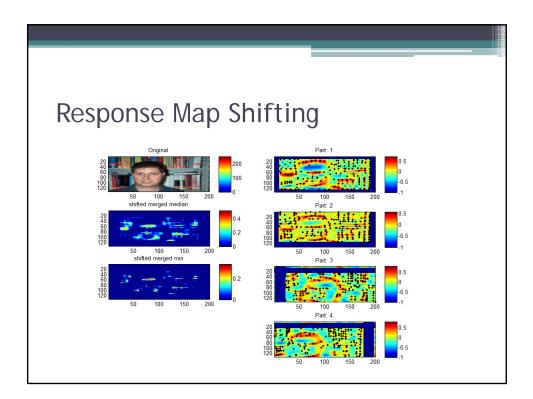


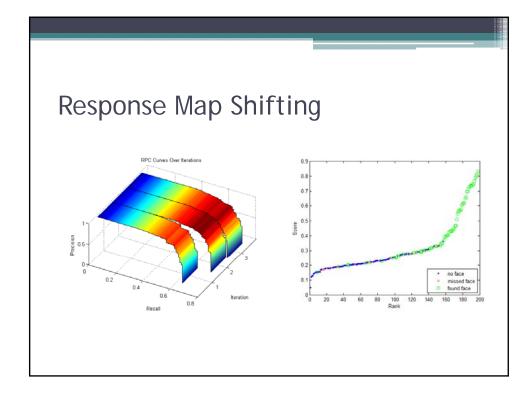


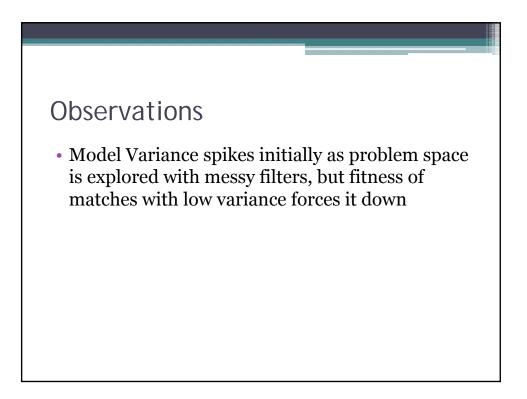


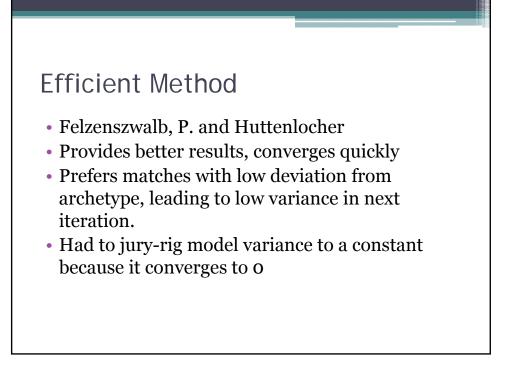
HOG filtering (co	nt)	
Without HOG filtering	With HOG filtering	
	etween iterations 1 and 2, HOG Filtering	
	degenerate training examples in the top	

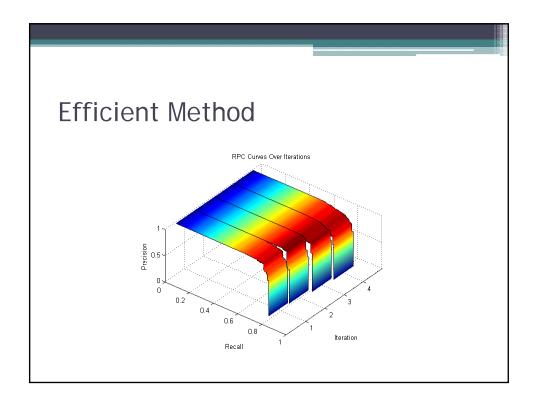


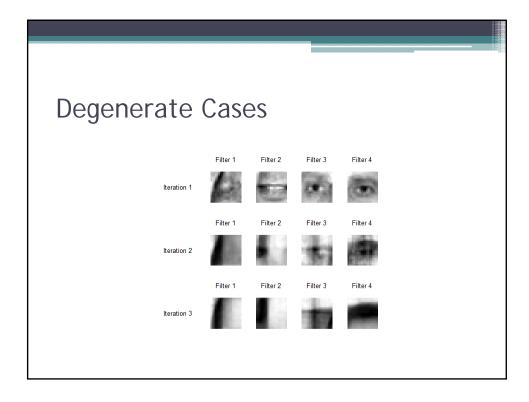


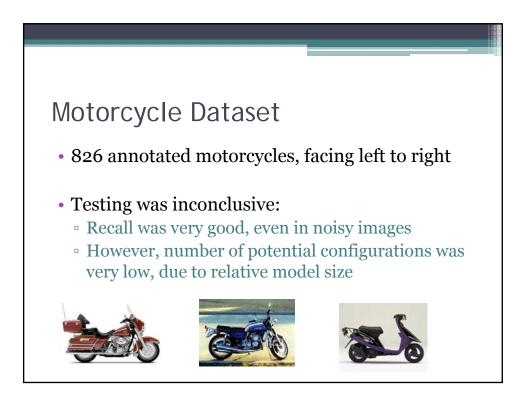






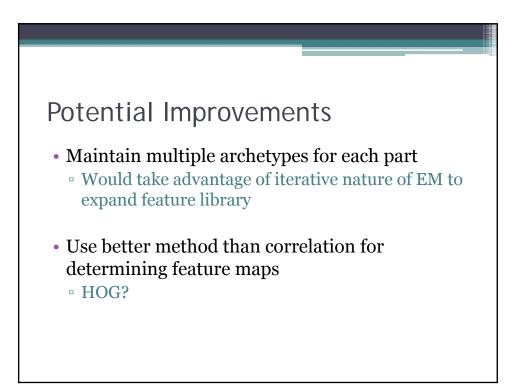






Observations

- EM can reinforce degenerate cases.
- Requires some knowledge of the training data to find
- Can find largest cluster, while excluding outliers
- Helps most if initial input was bad, but correctable



References

- Felzenszwalb, P. and Huttenlocher, D. "Pictorial Structures for Object Recognition." Intl. Journal of Computer Vision, 61(1), pp. 55-79, January 2005.
- Fischler, M. and Elschlager, R. "The representation and matching of pictorial structures." IEEE Transactions on Computers, 22(1):67--92, 1973.

