Outline
CS376 Computer Vision
Monday, April 4, 2011

Instance recognition

- Motivation: visual search

- Visual words
    - Feature space quantization (recap)
    - Indexing with inverted file
    - Issues in visual vocabulary formation
    - Bag of words representation and comparisons
    - Vocabulary trees for large vocabularies
    - Pros and cons of visual words

- Spatial verification strategies, using affine transformation
    - RANSAC
    - Example applications, evaluating retrieval results with precision recall
    - Generalized Hough
    - Tradeoffs

- More text retrieval influence
    - Tf-idf weighting
    - Query expansion

- Instance recognition in the sky

Summary