



Università degli Studi di Brescia

Multimedia Communication Services Lab experience n. 10

Retrieval, Classification, Clustering

- Write a function which is able to detect which video most likely contains a given (noisy) frame
 - Find the exact answer by comparing with all possible frames (slow)
 - Compare with a subset of frames from each video sequence (faster)
 - Use a statistical description of the different video sequences (hint: use vector quantization and encode your frame with codebooks generated from different video sequences)
 - What if you only have a cropped portion of a frame?
 - What if you have a small cropped video sub-sequence?
- Write a function which is able to classify an image in some given subsets (compare your image with the statistical description of the images in different subsets, see hints above)
- Write a function which is able to cluster a set of images in different subsets