

UPMC/LIP6at ImageCLEFannotation 2009: LargeScale VisualConceptDetection and Annotation

**AliFakeri-Tabrizi, Sabrina Tollari,
Ludovic Denoyer, Patrick Gallinari**
(Université Pierre et Marie CURIE – Paris 6
UMR CNRS 7606 – LIP6, France)

Track: ImageCLEF



ANR-06-MDCA-002 AVEIR

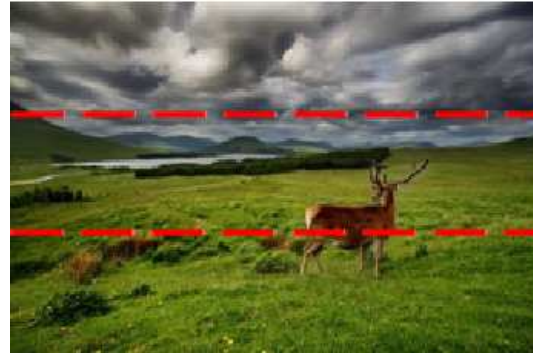
CLEF2009
PosterBooster Session



VCDT– VisualConceptDetectionTask

Automaticallyextractingvisualconcepts

- Visual descriptors
 - Segmentation
 - HSV



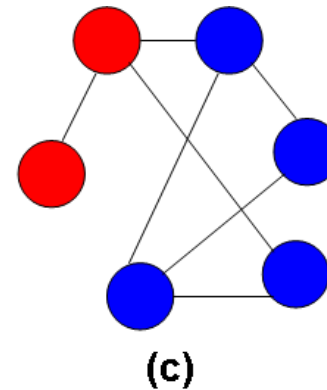
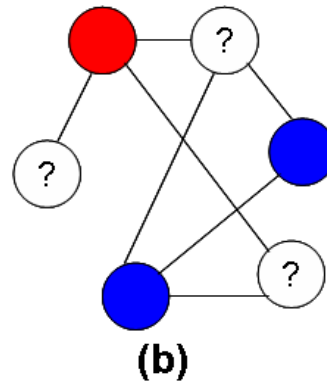
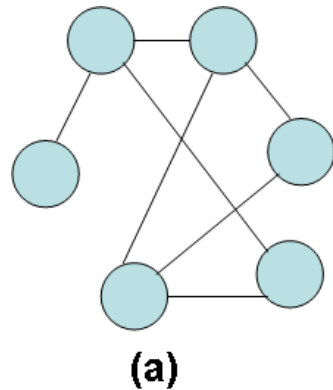
- Use the relations between concepts
 - Detect the exclusive concepts
 - Co-occurrence matrix: “day” or “night”
 - Filter the classification scores using an optimism rate
 - Support Vector Machine with a convenient loss function
 - Baseline



VCDT– VisualConceptDetectionTask

Automatically extracting visual concepts

- Graph Classification
 - Each node represents an image
 - Each edge is weighted by the similarity between each pair of images
 - Propagate the label of each node through the graph



- We have also participated in the AVEIR consortium runs

