

# UPMC/LIP6at ImageCLEFannotation 2009: LargeScale VisualConceptDetection and Annotation

**AliFakeri-Tabrizi, Sabrina Tollari,  
Ludovic Denoyer, Patrick Gallinari**  
(Université Pierre et Marie CURIE – Paris6  
UMRCNRS7606 – LIP6, France)

Track: ImageCLEF



ANR-06-MDCA-002 AVEIR

---

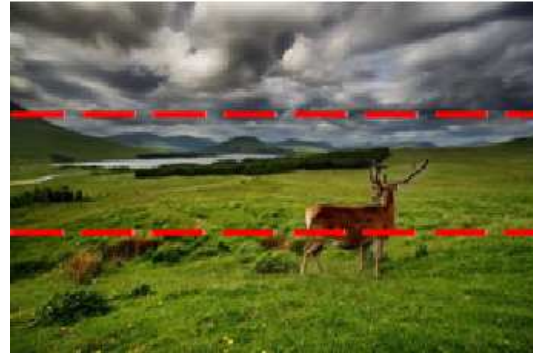
CLEF2009  
PosterBoaster Session



# VCDT– VisualConceptDetectionTask

## Automaticallyextractingvisualconcepts

- Visual descriptors
  - Segmentation
  - HSV



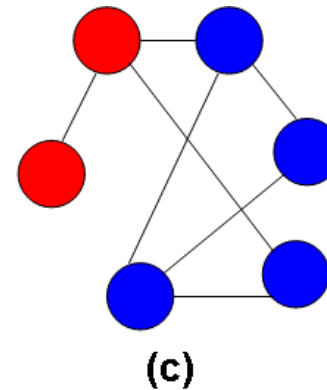
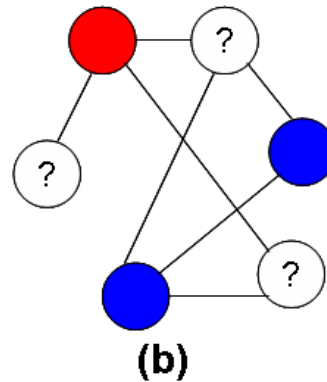
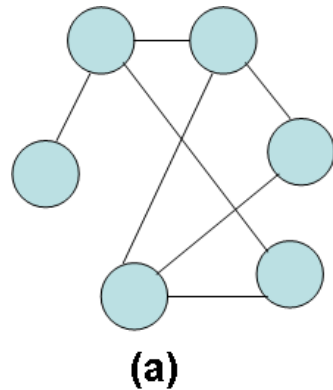
- Use the relations between concepts
  - Detect the exclusive concepts
    - Co-occurrence matrix: “day” or “night”
    - Filter the classification scores using an optimism rate
  - Support Vector Machine with a convenient loss function
    - Baseline



# 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

