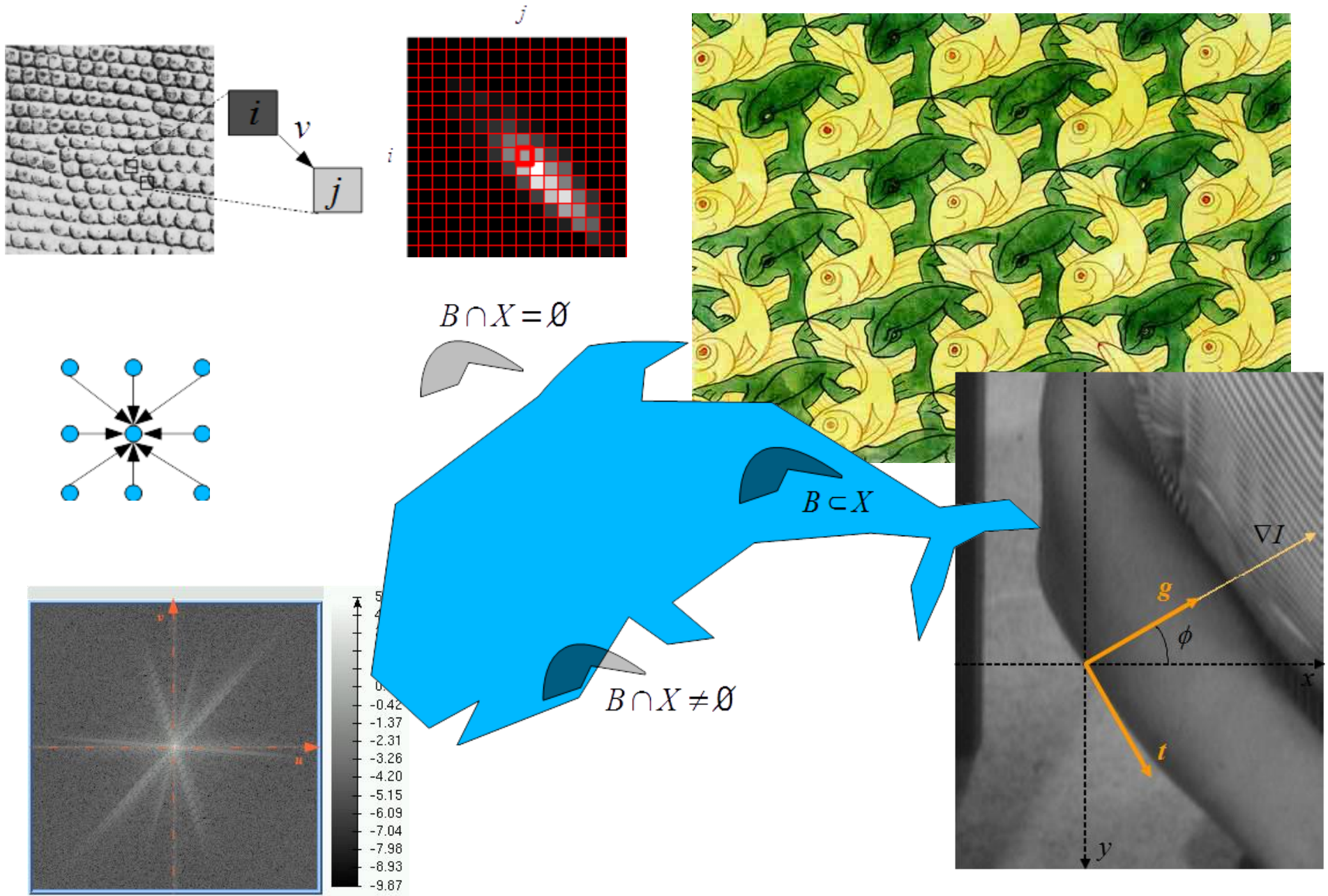




Joint course M2 AIC – M2 D&K

“Image Mining”

REPRESENTATION MODELS: What IS an image ?



SEGMENTATION AND FEATURE EXTRACTION: WHERE to represent?

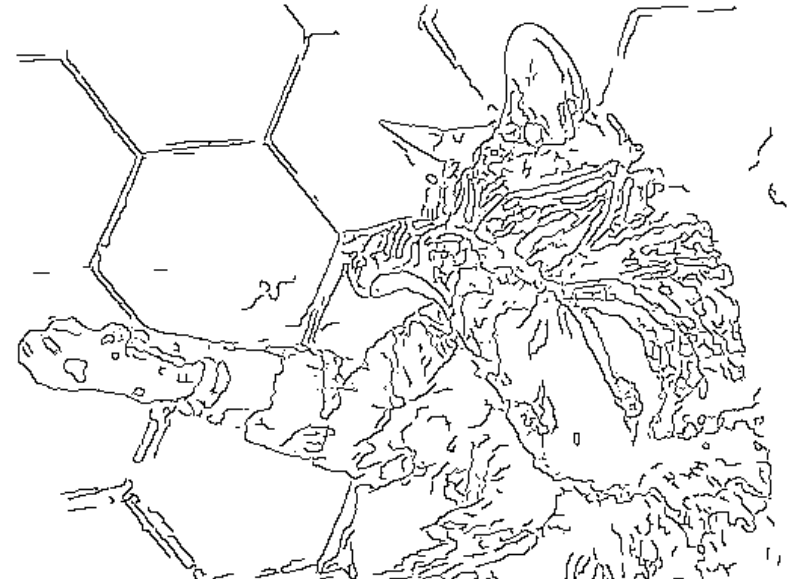
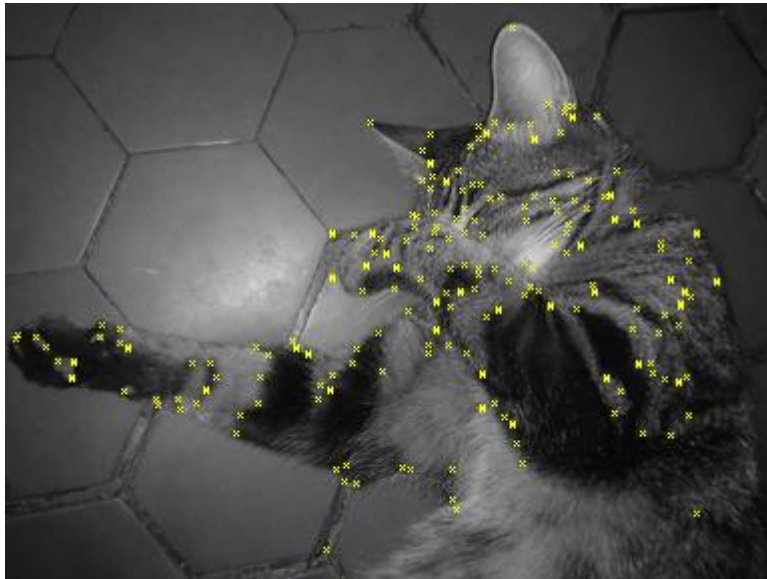
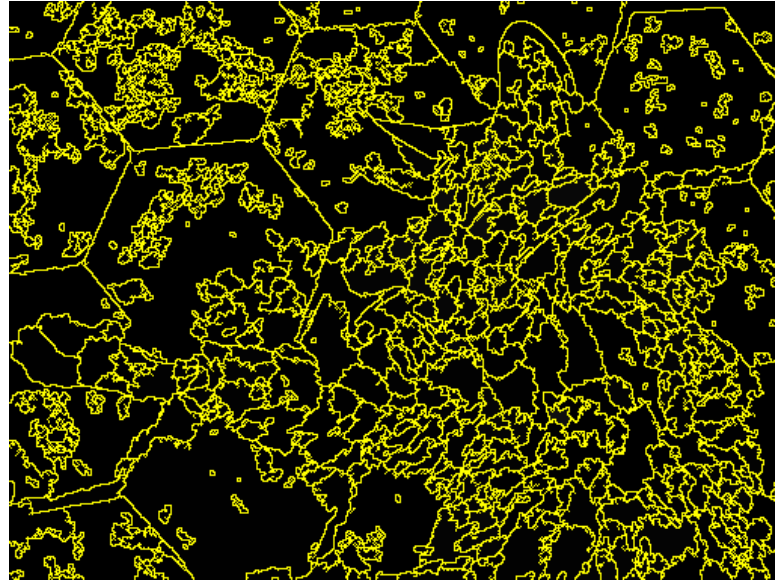
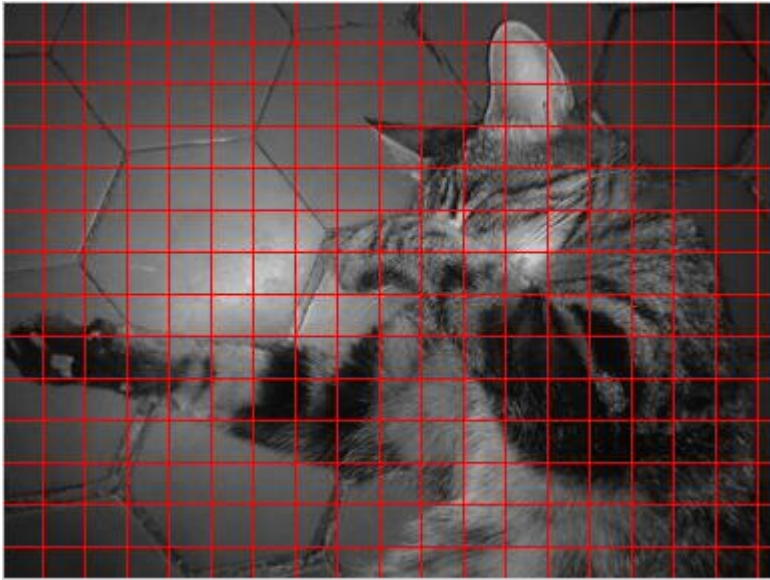
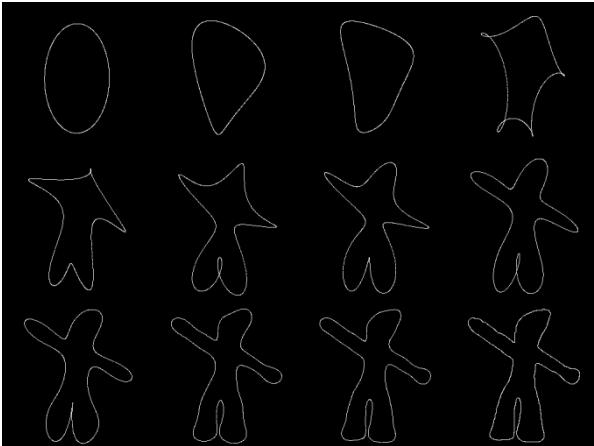
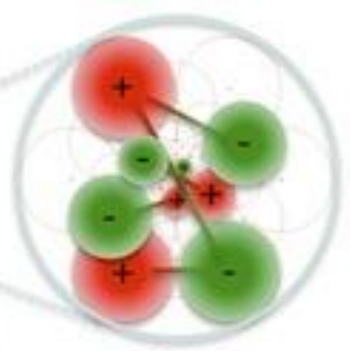


IMAGE DESCRIPTORS: WHAT to represent?

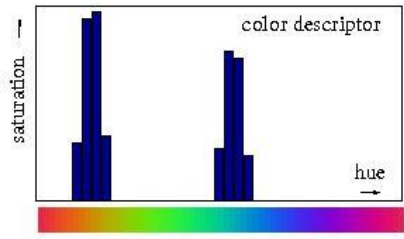
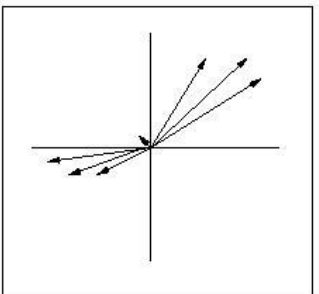
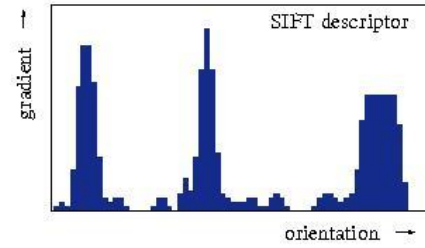
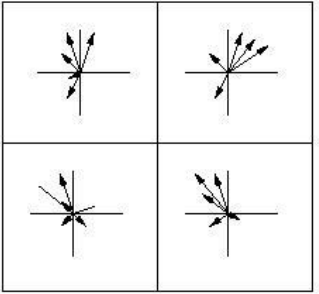
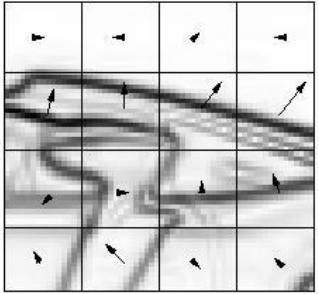
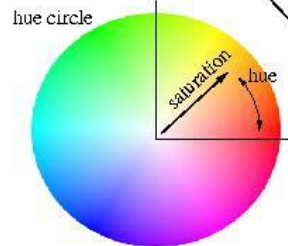


[Wang 13]



10110

[Alahi 12]



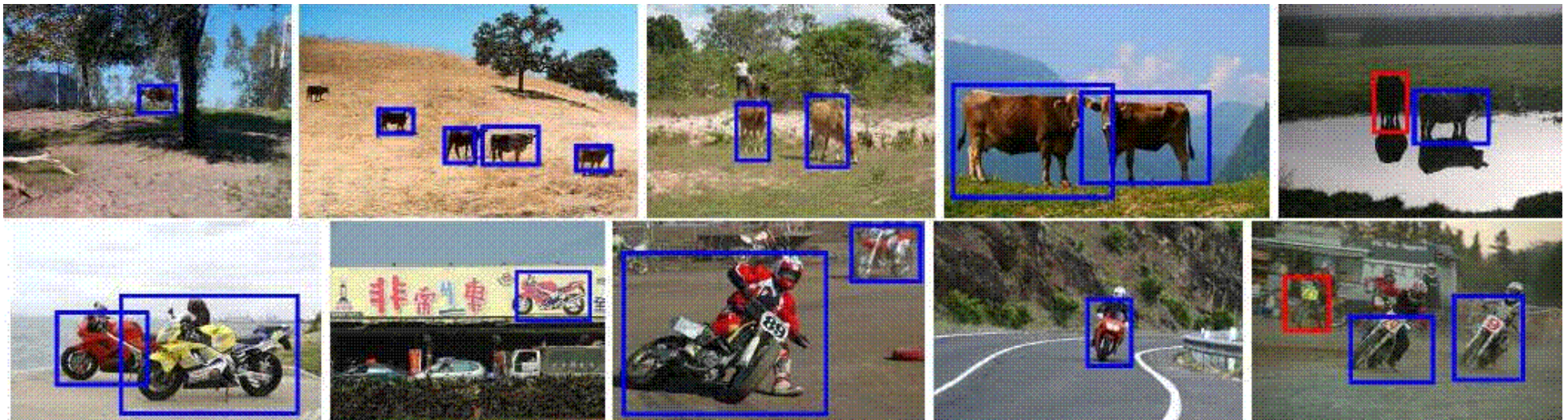
[van de Weijer 06]

MACHINE LEARNING AND VISUAL RECOGNITION





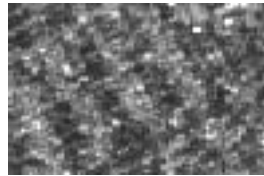






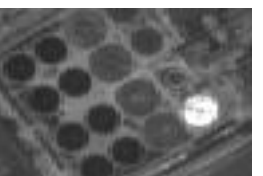


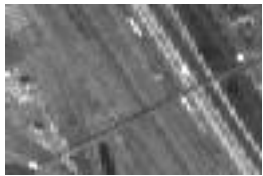
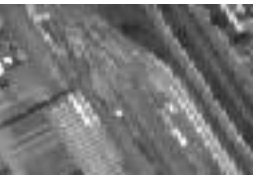

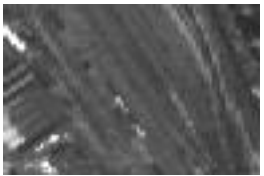


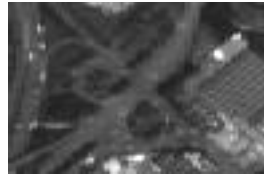

object classes	building	grass	tree	cow	sheep	sky	airplane	water	face	car
	bicycle	flower	sign	bird	book	chair	road	cat	dog	body

[Shotton 09]

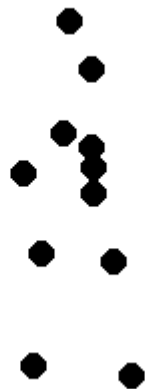
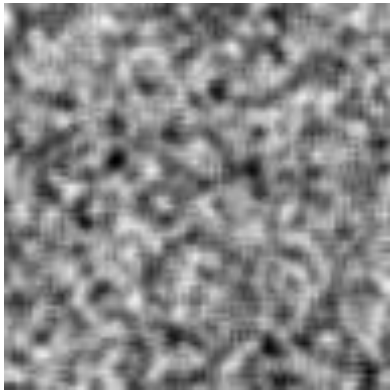


[INRIA-Willow 08]

SATELLITE IMAGERY DATABASES

Urban area				
Airports				
Industrial zone				
Railway				
Road				

VIDEOS: Motion Estimation, Detection and Tracking



PRACTICAL MODALITIES & ORGANISATION

Lecturers:

- Antoine Manzanera, David Filliat (ENSTA-ParisTech)
- Isabelle Bloch, Henri Maître (Télécom-ParisTech)
- .../...

Evaluation Modalities:

- Practical works
- Written exam

Website:

<https://perso.telecom-paristech.fr/bloch/AIC/OptionsImage.html>