



Current subjects in Computer Science II

Computer Vision and Pattern Recognition

- Lecturers:
 - Computer Vision: Arturo Gil
 - Pattern Recognition: Luis Payá

- Main purpose: Offer you a general view of Computer Vision and Pattern Recognition

UNIVERSIDAD MIGUEL HERNÁNDEZ DE ELCHE

- Wir kommen aus Elche...



ELCHE

- A nice place with a lot of history....

- First people living around 2000 B.C.
- V century B.C. → Iberians called it *Heliké*



- 209 B.C → Romans called it *Colonia Iulia Ilice Augusta*



- III century A.D. → Barbarians, Celts and Visigoths
- Between the VIII and IX century A.D. → Muslim invasion
- 1265 A.D. → Cristians conquer the city
- Around the XIX → Starts shoe industry



ELCHE





Course description

Computer Vision:

- 1.- Introduction. Applications
- 2.- Capturing images.
- 3.- Image features. Image transformations.
- 4.- Edge extraction. Significant point extraction
- 5.- Segmentation
- 6.- Introduction to 3D vision
- 7.- Practice I and II (Matlab)

Pattern recognition:

1. Introduction.
2. Bayesian decision theory.
3. Feature Extraction and Selection Methods
4. Example of pattern recognition system: Face recognition



Evaluation

- Test + results of practices at the end of the whole course.
 - Total mark =
 - 50% practice reports
 - 50% multiple-choice test and short questions



Current Subjects in CS

PART ONE: COMPUTER VISION

Unit 1: Wednesday 13th 09:45-11:15 (Arturo Gil) (lecture).

Unit 2: Wednesday 13th 11:30-13:00 (Arturo Gil) (lecture).

Unit 3: Wednesday 13th 15:45-17:15 (Arturo Gil) (practice).

Unit 4: Thursday 14th 09:45-11:15 (Arturo Gil) (lecture).

Unit 5: Thursday 14th 11:30-13:00 (Arturo Gil) (lecture).

Unit 6: Thursday 14th 15:45-17:15 (Arturo Gil) (practice).

PART TWO: PATTERN RECOGNITION

Unit 7: Friday 15th 8:00-9:30 (Luis Payá) (lecture).

Unit 8: Friday 15th 9:45-11:15 (Luis Payá) (lecture).

Unit 8: Friday 15th 11:30-13:00 (Luis Payá) (practice).

Unit 8: Friday 15th 14:00-15:30 (Luis Payá) (practice).

Unit 8: Friday 15th 15:45-17:15 (Luis Payá) (practice).

EVALUATION (test + results of practices) - Test: Monday 18th 9:45-11:15