30263 - Computer Vision

Información del Plan Docente

Academic Year	2017/18
Faculty / School	110 - Escuela de Ingeniería y Arquitectura
Degree	439 - Bachelor's Degree in Informatics Engineering
ECTS	6.0
Year	4
Semester	Second semester
Subject Type	Compulsory
Module	---

1.General information

1.1.Introduction

1.2.Recommendations to take this course

1.3.Context and importance of this course in the degree

1.4.Activities and key dates

2.Learning goals

2.1.Learning goals

2.2.Importance of learning goals

3.Aims of the course and competences

3.1.Aims of the course

3.2.Competences

4.Assessment (1st and 2nd call)

4.1.Assessment tasks (description of tasks, marking system and assessment criteria)

5.Methodology, learning tasks, syllabus and resources

5.1.Methodological overview

5.2.Learning tasks

5.3.Syllabus

- Image formation and acquisition
- Colour models
- Basic image processing

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- 2D image recognition
- Morfology
- Contour detection
- Feature detection
- Feature based recognition
- 3D Vision

5.4.Course planning and calendar

5.5.Bibliography and recommended resources

[BB: Bibliografía básica / BC: Bibliografía complementaria]

- [BB] 1. Szeliski, Richard. Computer vision : algorithms and applications / Richard Szeliski London : Springer, cop. 2011
- [BB] 2. Forsyth, David A.. Computer vision : a modern approach / David A. Forsyth, Jean Ponce . - 2nd ed. Upper Saddle River : Prentice Hall, 2012
- [BB] 4. Bradski, G. Learning OpenCV: Computer Vision with the OpenCV Library / G. Bradski and A. Kaehler O'Reilly Media, Inc. 2008.
- [BB] González, Rafael C.. Digital image processing / Rafel C. González, Richard E. Woods. . 3rd ed. Upper Saddle River (New Jersey) : Pearson Prentice Hall, cop. 2010.

Listado de URL

- Transparencias y apuntes de la asignatura. Enunciados de prácticas [http://add.unizar.es]