朝陽科技大學 096學年度第2學期教學大綱
Computer Vision System 電腦視覺系統

當期課號	7161	Course Number	7161
授課教師	林宏達	Instructor	LIN,HONG DAR
中文課名	電腦視覺系統	Course Name	Computer Vision System
開課單位	工業工程與管理系碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	介紹影像之抽樣與量化、影像之前處理、影像處理與分析、影像模式、及影像辨認等理論，並介紹電腦視覺於物體辨認、自動化檢驗及機器人視覺等之應用。	Objectives	This course will cover the basic concepts and applications of important computer vision and automation including: 1. Digital Image Construction 2. Fundamentals of Digital Image 3. Image Transformation 4. Image Enhancement 5. Image Segmentation 6. Binary Image Processing 7. Computer Vision in Industrial Applications
教材	1. “Digital Image Processing” by Rafael C. Gonzalez and Richard E. Woods, 2nd edition, Prentice-Hall, Inc., 2002 (開發書局)	Teaching Materials	
成績評量方式	平時作業(40%)、期刊研讀報告(10%)、 期中考(20%)、學期書面與口頭報告(30%)。	Grading	Homework (40%) Paper presenation (10%) Mid-term Exam. (20%) Final project (30%)
教師網頁	qclab.iem.cyut.edu.tw		
教學內容	此課程涵蓋電腦視覺與自動化之理論與應用,內容如下: 1. Digital Image Construction 2. Fundamentals of Digital Image 3. Image Transformation 4. Image Enhancement 5. Image Segmentation 6. Binary Image Processing 7. Computer Vision Techniques in Industrial Applications	Syllabus	This course will cover the basic concepts and applications of important computer vision and automation including: 1. Digital Image Construction 2. Fundamentals of Digital Image 3. Image Transformation 4. Image Enhancement 5. Image Segmentation 6. Binary Image Processing 7. Computer Vision Techniques in Industrial Applications

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