

朝陽科技大學 098學年度第1學期教學大綱
Introduction to Image Processing 影像處理概論

當期課號	3751	Course Number	3751
授課教師	程大川	Instructor	Cheng, Da Chuan
中文課名	影像處理概論	Course Name	Introduction to Image Processing
開課單位	資訊工程系(四進)四A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程將介紹基本的影像處理概念. 學生在本課程中,將了解影像增強,影像復原,影像壓縮,影像分割及其相關應用等技術.最後,本課程將整合影像處理技術及各種分類器並介紹其應用領域.	Objectives	This course will introduce fundamental concepts of image processing. The students will realize image enhancement, image restoration, image compression, image segmentation, and their applications following the introduction to this course. Finally, the integration of image processing and various classifiers will be also covered in this course.
教材		Teaching Materials	
成績評量方式	心得報告30% 期中考30% 期末考40%	Grading	report 30% midterm 30% final 40%
教師網頁	-		
教學內容	<ol style="list-style-type: none"> 1. Introduction 2. Digital Image Fundamentals 3. Image Enhancement in the spatial domain (I) 4. Image Enhancement in the spatial domain (II) 5. Low level image processing (I) 6. Low level image processing (II) 7. Image segmentation (I) 8. Image segmentation (II) 9. Image segmentation (III) 10. Color image processing (I) 11. Color image processing (II) 12. Image restoration (I) 13. Image restoration (II) 14. Classification (I) 15. Classification (II) 	Syllabus	<ol style="list-style-type: none"> 1. Introduction 2. Digital Image Fundamentals 3. Image Enhancement in the spatial domain (I) 4. Image Enhancement in the spatial domain (II) 5. Low level image processing (I) 6. Low level image processing (II) 7. Image segmentation (I) 8. Image segmentation (II) 9. Image segmentation (III) 10. Color image processing (I) 11. Color image processing (II) 12. Image restoration (I) 13. Image restoration (II)

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