

朝陽科技大學 094學年度第1學期教學大綱
Image Processing 影像處理

當期課號	7357	Course Number	7357
授課教師	李朱慧	Instructor	LEE,CHU HUI
中文課名	影像處理	Course Name	Image Processing
開課單位	資訊管理系碩士班二A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程介紹有關數位影像處理的基本原理及應用技術，內容包括深入瞭解空間域與頻率域各種最新的影像壓縮技術，與漸進式影像傳輸及數位浮水印等各種影像應用技術之探討，使之對於影像處理領域上的應用有深入的了解。	Objectives	This course introduces the principal theorem and applied techniques of digital image processing. The content includes the exploration of the spatial domain and frequency domain image compression technique, such as JPEG and JPEG2000, progressive image transmission, digital watermark, etc.
教材	Introduction to Digital Image Processing with matalab, Alasdair Mcandrew, 高立圖書	Teaching Materials	
成績評量方式	期中考: 30 分 期末考: 30 分 報告: 20 分 平時成績: 20分	Grading	Midterm Examination: 30% Final Examination: 30% Presentation: 20% Class participation : 20%
教師網頁	www.cyut.edu.tw/~chlee		
教學內容	1.Introduction 2.Images and Matlab 3.Image Display 4.Point Processing 5.Neighborhood Processing 6.Image Geometry 7.The Fourier Transform 8.Image Restoration 9.Image Segmentation 10.Mathematical Morphology 11.Image Topology 12.Shapes and Boundaries 13.Color Processing 14.Image Coding Compression	Syllabus	1.Introduction 2.Images and Matlab 3.Image Display 4.Point Processing 5.Neighborhood Processing 6.Image Geometry 7.The Fourier Transform 8.Image Restoration 9.Image Segmentation 10.Mathematical Morphology 11.Image Topology 12.Shapes and Boundaries 13.Color Processing 14.Image Coding Compression

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