

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

當期課號	7765	Course Number	7765
授課教師	戴紹國	Instructor	DAI,SHOU KUO
中文課名	影像處理	Course Name	Image Processing
開課單位	資訊管理系碩士在職專班二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	Digital image processing Third Edition Rafael C.Gonzalez, Ridhard E. Woods, Prentice Hall 歐亞代理	Teaching Materials	Digital image processing Third Edition Rafael C.Gonzalez, Ridhard E. Woods, Prentice Hall 歐亞代理
成績評量方式	Study report: 50% Class participation : 50%	Grading	Study report: 50% Class participation : 50%
教師網頁	http://www.cyut.edu.tw/~sgdai		
教學內容	1.Introduction 2.Images and Matlab 3.Image Display4.Point Processing 5.Neighborhood Processing 6.Image Geometry 7.The Fourier Transform 8.Image Restoration9.Image Segmentation10.Mathematical Morphology 11.Image Topology12.Shapes and Boundaries13.Color Processing 14.Image Coding Compression	Syllabus	1.Introduction 2.Images and Matlab 3.Image Display4.Point Processing 5.Neighborhood Processing 6.Image Geometry 7.The Fourier Transform 8.Image Restoration9.Image Segmentation10.Mathematical Morphology 11.Image Topology12.Shapes and Boundaries13.Color Processing 14.Image Coding Compression

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