

朝陽科技大學 094學年度第1學期教學大綱  
Data Compression 資料壓縮

當期課號	7799	Course Number	7799
授課教師	黃惠俞	Instructor	HUANG,HUI YU
中文課名	資料壓縮	Course Name	Data Compression
開課單位	資訊工程系碩士在職專班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程主要簡介資料壓縮處理的基本原理及方法,其內容包含有: 1.無失真壓縮, 2. Huffman 編碼, 3.預測編碼, 4.有失真編碼, 5. 純量/向量 量化, 6. 小波為基礎之壓縮等.	Objectives	This course is mainly understanding the fundamentals of data compression, and its contents consist of : (1). lossless compression, (2). Huffman coding, (3). predictive coding, (4). lossy coding, (5). scalar/vector quantizations, (6). wavelet-based compression.
教材	Introduction to Data Compression, Khalid Sayood, Morgan Kaufmann Pub. 2000 ISBN:1558605584	Teaching Materials	
成績評量方式	先修課程：訊號與系統,工程數學,影像處理. 成績： 1. HW assignments: 20%, 2. Midterm :25% 3. Paper reports: 30%, 4. Final project:25%	Grading	Prepared courses: Signal and System, Engineering Mathematics, Image Processing. Grading: 1. HW assignments: 20%, 2. Midterm :25% 3. Paper reports: 30%, 4. Final project:25%
教師網頁	<a href="http://www.cyut.edu.tw/~hyhuang/index.asp">http://www.cyut.edu.tw/~hyhuang/index.asp</a>		
教學內容	1. Introduction 2. Lossless compression 3. Huffman coding 4. Predictive Coding 5. Lossy Coding 6. Scalar/Vector Quantizations 7. Wavelet-based Compression	Syllabus	1. Introduction 2. Lossless compression 3. Huffman coding 4. Predictive Coding 5. Lossy Coding 6. Scalar/Vector Quantizations 7. Wavelet-based Compression

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