

朝陽科技大學 092學年度第1學期教學大綱
Data Compression on Image and Speech 影像與語音資料壓縮

當期課號	7323	Course Number	7323
授課教師	張軒庭	Instructor	CHANG,HSUAN TING
中文課名	影像與語音資料壓縮	Course Name	Data Compression on Image and Speech
開課單位	網路與通訊研究所碩士班二A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標		Objectives	
教材		Teaching Materials	
成績評量方式	Grading: Homework – 20%, Class participation – 40%, Paper presentation & Project – 40%	Grading	
教師網頁	-		
教學內容	<ol style="list-style-type: none"> 1. Introduction 2. Fundamental theories <ul style="list-style-type: none"> <input type="checkbox"/> Basic concepts <input type="checkbox"/> Entropy <input type="checkbox"/> Rate-distortion theory 3. Lossless compression <ul style="list-style-type: none"> <input type="checkbox"/> Statistical models <input type="checkbox"/> Dictionary models 4. Lossy compression <ul style="list-style-type: none"> <input type="checkbox"/> Prediction coding <input type="checkbox"/> Block truncation coding <input type="checkbox"/> Transform coding <input type="checkbox"/> Vector quantization coding <input type="checkbox"/> Subband and Wavelet coding <input type="checkbox"/> Fractal image compression <input type="checkbox"/> Hierarchical coding <input type="checkbox"/> Video coding 	Syllabus	Contact information: Phone: 05-5342601 ext. 4263, 0910666649 Email: htchang@pine.yuntech.edu.tw Homepage: http://www.ee.yuntech.edu.tw/~htchang/

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