

朝陽科技大學 093學年度第2學期教學大綱
Speech Signal Processing 語音訊號處理

當期課號	7267	Course Number	7267
授課教師	王德譽	Instructor	WANG,DE YU
中文課名	語音訊號處理	Course Name	Speech Signal Processing
開課單位	資訊工程系碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程內容提供基本的語音訊號知識及語音處理的技術。主題包括數位語音的編碼、語音加強、語音合成、語音辨識、語音確認。	Objectives	This course provides a fundamental knowledge of speech signals and speech processing techniques. Topics include digital speech coding, speech enhancement, speech synthesis, speech recognition, and speech verification.
教材	1)Text: Discrete-Time Speech Signal Processing Principle and Practice by Thomas F. Quatieri. 2)Reference: 1. Digital Coding of Waveforms Principles and Applications to Speech and Video by N.S. Jayant and Peter Noll. 2. Discrete-time Processing of Speech Signal by J. R. Deller, Jr., J.G. Proakis, and J.H. L. Hansen. 3. Digital Processing of Speech Signals by L.R. Rabiner and R.W. Schafer.	Teaching Materials	
成績評量方式	平時成績:40% 期中考 :30% 期末考:30%	Grading	Test and home work 40%, midterm 30%, final 30%
教師網頁	-		
教學內容	1) 前言 2) 離散訊號處理 3) z-轉換 4) 極點-零點語音模型分析與合成 5) 正弦語音分析/合成 6) 音高估測 7) 波形編碼	Syllabus	1) Introduction 2) A Discrete-Time Signal Processing Framework 3) z-transform 4) Analysis and Synthesis of Pole-Zero Speech Models 5) Sinusoidal Analysis/Synthesis 6) Pitch Estimation 7) Waveform Coding

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