

朝陽科技大學 093學年度第2學期教學大綱
Pattern Recognition 圖形識別

當期課號	7269	Course Number	7269
授課教師	吳世弘	Instructor	WU,SHIH HUNG
中文課名	圖形識別	Course Name	Pattern Recognition
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	本課程主要介紹圖形識別的知識，學生在本課程將可了解相關概念有：貝氏定理分類器，線性與非線性分類器，特徵挑選，特徵產生，脈絡相關分類，系統評估，分群演算法	Objectives	The goal of this course is to provide the students with a basic knowledge of pattern recognition. The students will realize the following concepts in the course: 1.Classifiers based on Bayes decision theory 2.Linear/nonlinear classifiers 3.Feature selection 4.Feature generation 5.Context-dependent classification 6.System evaluation 7.Clustering algorithms
教材	Pattern Classification (2nd ed.) by Richard O. Duda, Peter E. Hart and David G. Stork Publisher: Wiley Interscience ISBN: 0-471-05669-3 歐亞書局	Teaching Materials	
成績評量方式	1.Homework: 20% 2.Quiz: 20% 3.Midterm: 30% 4.Final Project 30%	Grading	1.Homework: 20% 2.Quiz: 20% 3.Midterm: 30% 4.Final Project 30%
教師網頁	-		
教學內容	Bayesian decision theory Parametric estimation and supervised learning Linear discriminant functions Nonparametric methods Feature extraction for representation Feature extraction for classification Unsupervised learning and clustering	Syllabus	Bayesian decision theory Parametric estimation and supervised learning Linear discriminant functions Nonparametric methods Feature extraction for representation Feature extraction for classification Unsupervised learning and clustering

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