

朝陽科技大學 094學年度第1學期教學大綱
Pattern Recognition 圖形識別

當期課號	7356	Course Number	7356
授課教師	戴紹國	Instructor	DAI,SHOU KUO
中文課名	圖形識別	Course Name	Pattern Recognition
開課單位	資訊管理系碩士班二A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	圖形識別主要是以一些計量的方法來模擬人類的知覺進行分類，在課程中學生可以了解一些圖形識別的基礎知識，包括，1. Bayes 的分類法, 2. 線性和非線性的分類法, 3. 特徵的選擇和產生, 4. 系統評估和群聚演算法。	Objectives	1. Bayesian decision theory. 2. Parametric estimation and supervised learning. 3. Linear discriminate functions. 4. Nonparametric methods. 5. Feature extraction for representation. 6. Feature extraction for classification. 7. Unsupervised learning and clustering.
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&Quiz: 20% 2.: Midterm: 40% 3. Final Project 40%	Grading	1. Homework&Quiz: 20% 2. Midterm: 40% 3. Final Project 40%
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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