朝陽科技大學 097學年度第2學期教學大綱
Pattern Recognition 圖形識別

當期課號	7793	Course Number	7793
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	Textbook: Christopher M. Bishop, "Pattern Recognition and Machine Learning", Springer, 2006. Reference: 1.Pattern Classification (2nd ed.) by Richard O. Duda, Peter E. Hart and David G. Stork Wiley Interscience 680 pages ISBN: 0-471-05669-3 歐亞書局 2. Pattern Recognition (2nd ed.) by Theodoridis and Koutroumbas. Academic Press 全華圖書	Teaching Materials	Textbook: Christopher M. Bishop, "Pattern Recognition and Machine Learning", Springer, 2006. Reference: 1.Pattern Classification (2nd ed.) by Richard O. Duda, Peter E. Hart and David G. Stork Wiley Interscience 680 pages ISBN: 0-471-05669-3 歐亞書局 2. Pattern Recognition (2nd ed.) by Theodoridis and Koutroumbas. Academic Press 全華圖書
成績評量方式	1.Presentation:50% 2.Project Report:30% 3.Q&A:20%	Grading	1.Presentation:50% 2.Project report:30% 3.Q&A:20%
教師網頁	http://www.csie.cyut.edu.tw/~shwu		
教學內容	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	Syllabus	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

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