朝陽科技大學 098學年度第2學期教學大綱
Neural Networks and Its Applications 類神經網路

當期課號	7751	Course Number	7751
授課教師	李麗華	Instructor	LI,LI HUA
中文課名	類神經網路	Course Name	Neural Networks and Its Applications
開課單位	資訊管理系碩士在職專班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程在導引學生了解何謂類神經網路以及它的應用，課程將介紹最常見的類神經網路類型、其模式功能、及網路的應用。除了逐一介紹每個網路的架構及模式外， 亦會說明其應用層面及可能的研究領域。	Objectives	This course is designed to let students understand what are artificial neural network(ANN) models. Students will be guided to understand how ANN is constructed, functioned, and applied. To demonstrate the applicability of ANN, examples and projects will be used throughout the lecture.
教材	“Neural and Adaptive Systems: Fundamentals Through Simulations,” Jose C. Principe, Neil R. Euliano, W. Curt Lefebvre, John Wiley, 2000.(全華科技代理,書號:20643917) “類神經網路模式應用與實作”,葉怡成編著,儒林圖書,2001四月七版版. (ISBN:957-499-313-2) “Neural Network Design," Martin T. Hagan, Howard B. Demuth, and Mark Beale, PWS Publishing Co., 1996. (ISBN:053494332-2) “Artificial Neural Network,” Robert J. Schalkoff, McGraw-Hill,1997. (ISBN:0-07- 115554-6) “應用類神經網路”,葉怡成編著,儒林圖書,2001年3月三版. (ISBN:957-652 - 997-2)	Teaching Materials	“Neural and Adaptive Systems: Fundamentals Through Simulations,” Jose C. Principe, Neil R. Euliano, W. Curt Lefebvre, John Wiley, 2000.(全華科技代理,書號:20643917) “類神經網路模式應用與實作”,葉怡成編著,儒林圖書,2001四月七版版. (ISBN:957-499-313-2) “Neural Network Design," Martin T. Hagan, Howard B. Demuth, and Mark Beale, PWS Publishing Co., 1996. (ISBN:053494332-2) “Artificial Neural Network,” Robert J. Schalkoff, McGraw-Hill,1997. (ISBN:0-07- 115554-6) “應用類神經網路”,葉怡成編著,儒林圖書,2001年3月三版. (ISBN:957-652 - 997-2)
成績評量方式	Homework/Report 30% Midterm 30% Term Paper&Final Project 40%	Grading	Homework/Report 30% Midterm 30% Term Paper&Final Project 40%
教師網頁	http://www.cyut.edu.tw/~lhli		
教學內容	The course objective is to let students understand the concept of artificial neural network(ANN) and its models. Students will learn how to construct and apply ANN to their interested research area. Paper study and project implementation of one or more neural network models are required to fulfill this class.	Syllabus	The course objective is to let students understand the concept of artificial neural network(ANN) and its models. Students will learn how to construct and apply ANN to their interested research area. Paper study and project implementation of one or more neural network models are required to fulfill this class.

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