朝陽科技大學 096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	7412	Course Number	7412
授課教師	林正堅	Instructor	LIN,CHENG JIAN
中文課名	類神經網路	Course Name	Neural Networks and Its Applications
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	Fundamental concepts and models of artificial neural systems Single-layer perception classifiers Multilayer feedforward networks Associative memories Matching and self-organizing networks Applications of neural algorithms and systems Neural networks implementation	Objectives	Fundamental concepts and models of artificial neural systems Single-layer perception classifiers Multilayer feedforward networks Associative memories Matching and self-organizing networks Applications of neural algorithms and systems Neural networks implementation
教材	教科書: M. T. Hagan, H. B. Demuth, Neural Network Design, Thomson Learning, 1996. (新月圖書代理) 參考書: C. T. Lin and C. S. George Lee, Neural Fuzzy Systems: A Neuro-Fuzzy Synergism to Intelligent Systems, Prentice Hall, 1996. (高立圖書代理)	Teaching Materials	教科書: M. T. Hagan, H. B. Demuth, Neural Network Design, Thomson Learning, 1996. (新月圖書代理) 參考書: C. T. Lin and C. S. George Lee, Neural Fuzzy Systems: A Neuro-Fuzzy Synergism to Intelligent Systems, Prentice Hall, 1996. (高立圖書代理)
成績評量方式	1.期中考 (40%) 2.作業 (30%) 3.論文報告一篇(30%) (限發表於IEL or SDOS且Jan. 1, 2000以後刊登)	Grading	1.midterm(40%) 2. Homework(30%) 3.Presentation(30%)
教師網頁			
教學內容	Introduction Perceptron Widrow-Hoff Learning Backpropagation Associative Learning Competitive Networks Adaptive Resonance Theory(ART) Hopfield Network Recurrent Neural Networks Genetic Algorithm Neural Fuzzy Networks	Syllabus	Introduction Perceptron Widrow-Hoff Learning Backpropagation Associative Learning Competitive Networks Adaptive Resonance Theory (ART) Hopfield Network Recurrent Neural Networks Genetic Algorithm Neural Fuzzy Networks