朝陽科技大學 095學年度第2學期教學大綱
Detection and Estimation 偵測與預估

當期課號	7411	Course Number	7411
授課教師	賴坤助	Instructor	KUEN,CHU LAI
中文課名	偵測與預估	Course Name	Detection and Estimation
開課單位	網路與通訊研究所碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	數學基礎,訊號偵測及分類,參數估測,狀態估測,監督式學習,特徵抽取及選擇,非監督式學習及自組織	Objectives	Mathematical tools,Signal detection and classification,Parameter estimation,State estimation,Supervised learning,Feature extraction and selection,Unsupervised learning and self-organization
教材	1. Mathematical Methods and Algorithms for Signal Processing Todd K. Moon, Wynn C. 2. Theory, Volume 1, Queueing Systems by Leonard Kleinrock 3. Stochastic Processes by Sheldon M. Ross 4. Introduction to Statistical Theory by Paul Gerhard Hoel, Port Sidney C., and Charles J. Stone 5. Simulation, Third Edition , by Sheldon M. Ross	Teaching Materials	1. Mathematical Methods and Algorithms for Signal Processing Todd K. Moon, Wynn C. 2. Theory, Volume 1, Queueing Systems by Leonard Kleinrock 3. Stochastic Processes by Sheldon M. Ross 4. Introduction to Statistical Theory by Paul Gerhard Hoel, Port Sidney C., and Charles J. Stone 5. Simulation, Third Edition , by Sheldon M. Ross
成績評量方式	Homework x 3 30% Mid-term exam 25% Final exam 25% Term project 20%	Grading	Homework x 3 30% Mid-term exam 25% Final exam 25% Term project 20%
教師網頁	_		
教學內容	. Probability Space 2. Probability Measure and Random Variables 3. Distribution Functions 3. Conditional Expectation 4. Random Processes 5. Markov Chain 6. Sampling Theory 7. Tests of Hypotheses, Neyman-Pearson Theory, Bayes decision theory 8. Point Estimates,Maximum Likelihood Estimates 9. Curve fitting, Regression and Correlation 10. Simulation Theory 11.Queueing Theory-Fundamental	Syllabus	. Probability Space 2. Probability Measure and Random Variables 3. Distribution Functions 3. Conditional Expectation 4. Random Processes 5. Markov Chain 6. Sampling Theory 7. Tests of Hypotheses, Neyman-Pearson Theory, Bayes decision theory 8. Point Estimates,Maximum Likelihood Estimates 9. Curve fitting, Regression and Correlation 10. Simulation Theory 11.Queueing Theory-Fundamental

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