100-1 Preliminary Syllabus, Da-Yeh Univ

Information

Title		Serial No. / ID	1392 / EGR 5020
Dept.		School System / Class	1 1
Lecturer		Full or Part-time	
Required / Credit	Optinal / 3	Graduate Class	No
Time / Place	( )ABC / H371	Language	English

Introduction

Learn the concept of machine learning and its application in pattern recognition

Outline

1. Basic concept introduction
2. What is learning ?
3. The perceptron
4. Derivative-base optimization
5. Least-mean-square algorithm 6. Advanced learning algorithm 7. Multilayer perceptron neural networks
8. Supervised Learning algorithm 9. Backpropagation learning
10. Radial basis function network
11. Unsupervised Learning
12. Self-organizing system ?
13. Hebbian learning
14. Self-organizing system
15. Competitive learning

Prerequisite

Calculus, Linear algebra, Programming language