101-2 Preliminary Syllabus, Da-Yeh Univ

Information

Title		Serial No. / ID	1797 / EGR 5301
Dept.		School System / Class	1 1
Lecturer		Full or Part-time	
Required / Credit	Optinal / 3	Graduate Class	No
Time / Place	( )234 / H371	Language	Other

Introduction

This course is to provide graduate students for developing various intelligent-based networks/algorithm. Students can have a comprehensive, well-organized, and up-to-date account of basic principles underlying the design, analysis and synthesis hybrid integrated systems via the corresponding program codes for various real physical systems.

Outline

1. Introduction (K-15)
2. Supervised Learning-1: Perceptions and LSM (K-5)
3. Supervised Learning-2: Backpropagation (K-6)
4. Supervised Learning-3: Support Vector Machines (K-8)
5. Recurrent Learning-1: Attractor Neural Networks (K-10)
MIDTERM
6. Recurrent Learning-2: Adaptive Resonance Theory (K-11)
7. Unsupervised Learning: Toward to Self-organizing Feature Map (K-12)
8. Integrated Neural Fuzzy Systems (Y-16, N-8.1, Lin)
        - ANFIS, SONFIN
9. Evolution-based Neural/Fuzzy Systems (Y-17, N-8.2)

Prerequisite

basic fuzzy concept