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M.Tech.(ECE) (2016 Batch) (Sem.-1) NEURAL NETWORKS & FUZZY LOGIC

Subject Code : MTEC-104 M.Code : 74149

Time: 3 Hrs. Max. Marks: 100

INSTRUCTION TO CANDIDATES:

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carry TWENTY marks.
- Explain Recurrent back propagation method along with its limitations.
- Differentiate clearly between PID, Fuzzy and Fuzzy Neural Control.
- Explain CMAC Networks & ART networks in detail.
- 4. Write short notes on :
 - Various Optimization Techniques.
 - b. VLSI implementation of Neural Network,
- 5. What is Fuzzy database? What type of information can be kept in a fuzzy database?
- 6. Distinguish between:
 - Feedforward and feedback Neural Network.
 - Supervised and Unsupervised Learning.
- Explain speech recognition system using neural networks.
- 8. Find final weights of a single layer network after three steps of Hebbian learning with bipolar binary neuron used having initial weight vector w = [3 -1 0.5] needs to be trained using the set of three input vectors as below for an arbitrary choice of learning constant =1. The transposed inputs are:

$$X1=[2 -2 1.5], X2=[1 -0.5 -2], X3=[0 2 -2]$$

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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