Prove that if linear activation. Function is used with MLP Roll No www.rgpvonline.in then its performance will be the same as single layer 10 CS - 801 perceptron. www.rgpvonline.in Unit - III B.E. VIII Semester Briefly describe the Architecture of an ARTZ Network. Examination June, 2013 10 Full CPN is more efficient than the forward only CPN; Soft Computing 10 Justify. Time: Three Hours Maximum Marks: 100 Minimum Pass Marks:35 Give the limitations and applications of Hopfield Network 6. a) 10 Note: Attempt one question from each unit. Each unit have internal and Boltzmann machine. Consider a recurrent Auto Associative net used to store choice. Assume data/value, if required. the vector [1 1 -1 1]. Determine whether it recognizes a Unit - I stored vector with three missing components (00-10), Discuss the various techniques of soft computing. 10 (1000), (0100), (0001). Algorithm A* does not terminate until a goal node is Unit - IV selected for expansion. How ever, a path to the goal node Suppose there are five people in a story writing might be reached long before that node is selected for competition. Assume their relative goodness of expansion. Why does not it terminate as soon as a goal performance is given by a fuzzy set F as {(P1, 0.3), node has been found? Illustrate your answer with an example. $(P_2, 0.7), (P_3, 0.9), (P_4, 0.4), (P_5, 0.7)$ } proposition. There 10 are about two persons who had good performance. Ur The transitivity property of conventional (crisp) sets states Explain the problems in hill-climbing techniques along that if $A \subset B$ and $B \subset C$ then $A \subset C$. Is this property satisfied with ways to solve this problem. 10 by fuzzy sets. Explain. Show that the following formula are valid by giving tableau proof of each of Or 10 Define crisp sets with its fundamental concepts. 10 $\sim (A \vee B) \leftrightarrow (\sim A \land \sim B)$ Explain the features of membership functions. 10 Unit - II Unit - V State the training and application algorithm of the Adeline 10 Write short note on mutation operator. net. 10 Describe the working principle of genetic algorithm. Explain in detail the algorithm for Hebb Rule used in 10 pattern association. 10 www.rgpvonline.in Or Or Why Training Algorithms are required? Explain widrow 10 Explain advanced in GA. 10. a) and HOFF's learning rule. Discuss the categorization of bit-wise operator. 10 10

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