

LIST OF EXPERIMENTS

FUZZY LOGIC AND NEURAL NETWORKS LAB

1. Consider any two fuzzy sets A and B and find $A \cup B$, $A \cap B$, A^c and B^c by using a MATLAB program.
2. Calculate $A \cap B^c$ (difference), $B \cap A^c$ by writing an M-file.
3. Verify Demorgan's law using a MATLAB program.
4. Find the fuzzy relation using fuzzy max-min method for any given two vectors R and S using MATLAB program.
5. Using MATLAB program draw triangular and Gaussian membership function, given $x=0$ to 10 with increment of 0.1. Triangular membership function is defined between [5 6 7] and Gaussian membership is defined between 2 and 4.
6. Consider any fuzzy matrix R and find the crisp lambda cut set relation for $\lambda=0.6$ using MATLAB program.
7. Write a program to implement AND function using perception networks with bipolar inputs and outputs.
8. Write a program to implement OR function using ADALINE with bipolar inputs and outputs.
9. Write a MATLAB program/GATool for maximizing/minimizing a function.