



# SOFT COMPUTING TECHNIQUES SIMULATION TRAINER

MODEL - SOFTCOMP100

This Software trainer provides Simulation of Soft Computing Techniques in MATLAB.



## FEATURES

1. Study of the detailed theory of Soft Computing Techniques as used in Mobile Communication.
2. Simulation of Soft Computing Techniques in MATLAB.

**Note: - Matlab Software Version 7 or greater is required to this simulations.**

## SPECIFICATIONS

1. Soft Computing Techniques Simulation Software
2. Matlab Simulation .m files : more than 50 Files
3. **Books for Soft Computing Techniques : 10 Nos in pdf Format**
4. **Mp4 Video Class for Soft Computing Techniques : 40 Classes in Mp4 on DVD / Pen Drive**

## EXPERIMENTS

1. Implement simple logic network using MP Neuronmodel
2. Implement a simple linear regressor with a single Neuron model
3. Implement and test MLP trained with backpropagation algorithm
4. Implement and test RBF network
5. Implement SOFM for character recognition
6. Implement fuzzy membership functions (triangular, trapezoidal, gbell, PI, Gamma, Gaussian)
7. Implement defuzzyfication (Max-membership principle, Centroid method, Weighted average method)
8. Implement FIS with Mamdaniinferencing mechanism
9. A small project: may include classification or regression problem , using any soft computing technique studied earlier

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