

124. PREDICTION OF LOAD DEMAND USING NEURO-FUZZY TECHNIQUE

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Prior prediction of load consumption is mandatory to define the future energy consumption. The proposed system focused on load demand prediction. Fuzzy neural algorithm used in this system for efficiency and accuracy. We define genetic weighted fuzzy C means clustering algorithm. We also proposed five factors from the past history which are to be inputted for load prediction. The data set includes Total Population (TP), Total Consumption (TC), Gross Product (GP), Peak Demand (PD) and Daylight Time (DT). It observed accuracy of this system increased compared with the existing.

Index Terms— Fuzzy neural Network (FNN), demand prediction, load consumption, fuzzy C means clustering, back propagation network.

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