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Abstract:
Proposed system does analysis and prediction of electricity consumption on home usage electric supply with Regression Analysis. Intelligence system is helpful to find out power need requirement of a particular area. Simple linear multivariate regression technique is used for prediction. Dataset is taken from UCI repository. The data set consists of more than two lakh Instances, 10 years electrical usage of a city in which Home, Architectural, Industry and also with minute, hourly, daily, monthly, yearly usage of electricity is collected. We have achieved maximum accuracy using regression for prediction. Aggregation is used to convert uncertain probabilistic data into a certain data. Data mining is used for future power requirement analysis.

Published in: 2018 IEEE Global Conference on Wireless Computing and Networking (GCWCN)

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I. Introduction

Efficient use of electricity is the crucial challenge today. It will save wastage of electricity and further utilization in the needy area like agricultural can be done. If electricity distribution system comes to know the future requirement of electricity at the earlier stage, then it can decide from there electrical storage that, what amount of electricity they need to fulfill the requirement of their area coming under their zone. If Electricity storage contains more than enough data, then they can provide some electricity to the other region where is a shortage of electricity? If they have less electricity than their need then they can request for the same from another region so that load shedding will be minimum.

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