Abstract

Road traffic noise has remained one of the greatest concerns during the past few decades. It has found to be the major sources of pollution in the metropolitan city areas [7]. With the increase in urbanization and motorization the number of vehicles has increased which further increased this problem by manifolds. [4] Thus, in view of the above stated problem our aim is perform prediction of noise levels using certain available regression based and supervised learning algorithms. Modelling and prediction of traffic noise by using generally used prediction algorithms is a very complicated and non linear process, due to high involvement of several factors over which noise level depends. [3]. However, after analysis we have been able to found appropriate results with a certain levels of accuracy.

References

Comparative Analysis of Regression based and Supervised Learning Algorithms for Predicting Traffic Noise Levels in Indian Scenario

- Prof. Thomas B. Fomby Department of Economics Southern Methodist University, "K-Nearest Neighbours Algorithm: Prediction and Classification"
- S V Barai, A K Dikshit, Sameer Sharma, "Neural Network Models for Air Quality Prediction: A Comparative Study"

**Index Terms**

Computer Science  
Artificial Intelligence
Keywords

Road traffic model (RTM)  Artificial neural networks  K-nearest neighbour  Multi linear regression

Polynomial regression

Road traffic

Noise