Noise pollution monitoring

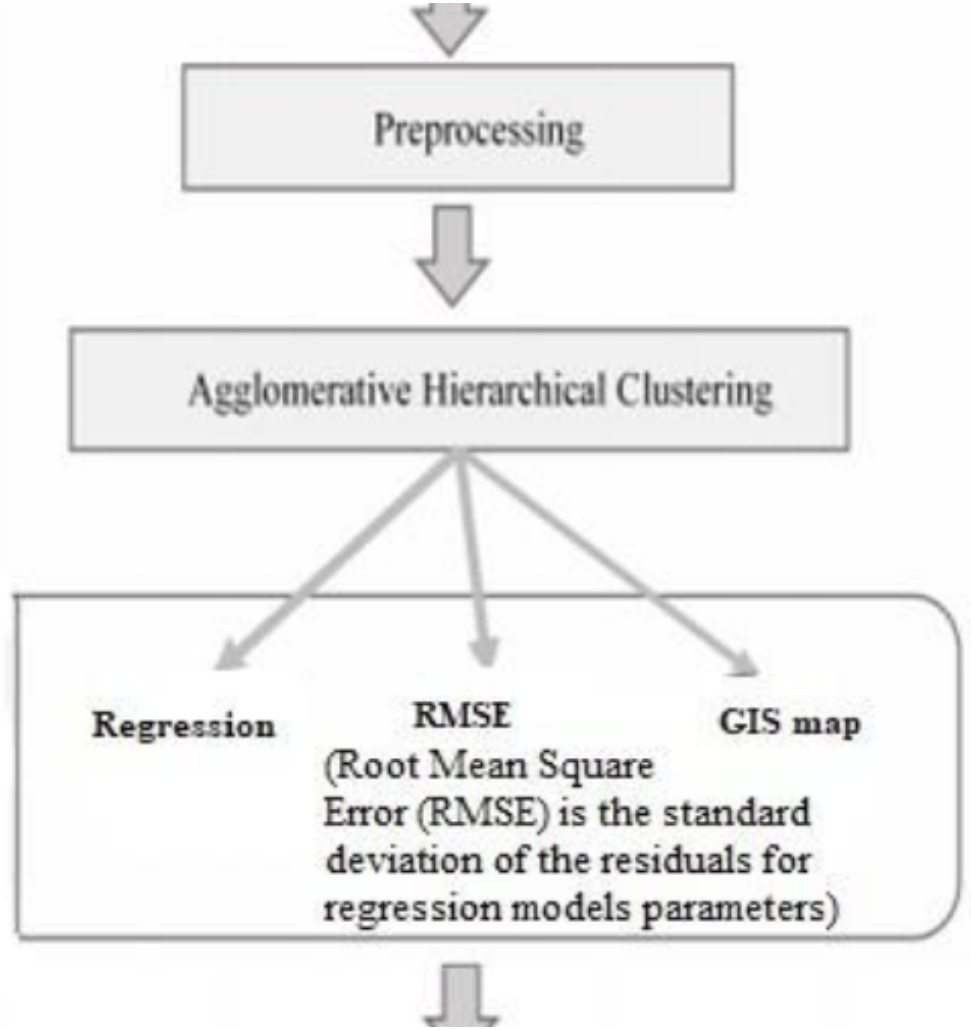
A.Meera benasir -952621106009
S. Veerasamy chettiar collage of engineering and technology-9526 Puliyangudi

Introduction

- Noise monitoring refers to the systematic process of measuring, recording, and assessing sound levels in various environments to understand the extent of noise pollution and its potential impact on human health and the surrounding ecosystem.
- Noise pollution is considered to be any unwanted or disturbing sound that affects the health and well-being of humans and other organisms.

Measuring and perceiving loudness

- Sound waves are vibrations of air molecules carried from a noise source to the ear. Sound is typically described in terms of the loudness (amplitude) and the pitch (frequency) of the wave.
- Children living in areas with high levels of noise pollution may suffer from stress and other problems such as memory and attention deficits. So control of noise pollution in workplace and society is important.

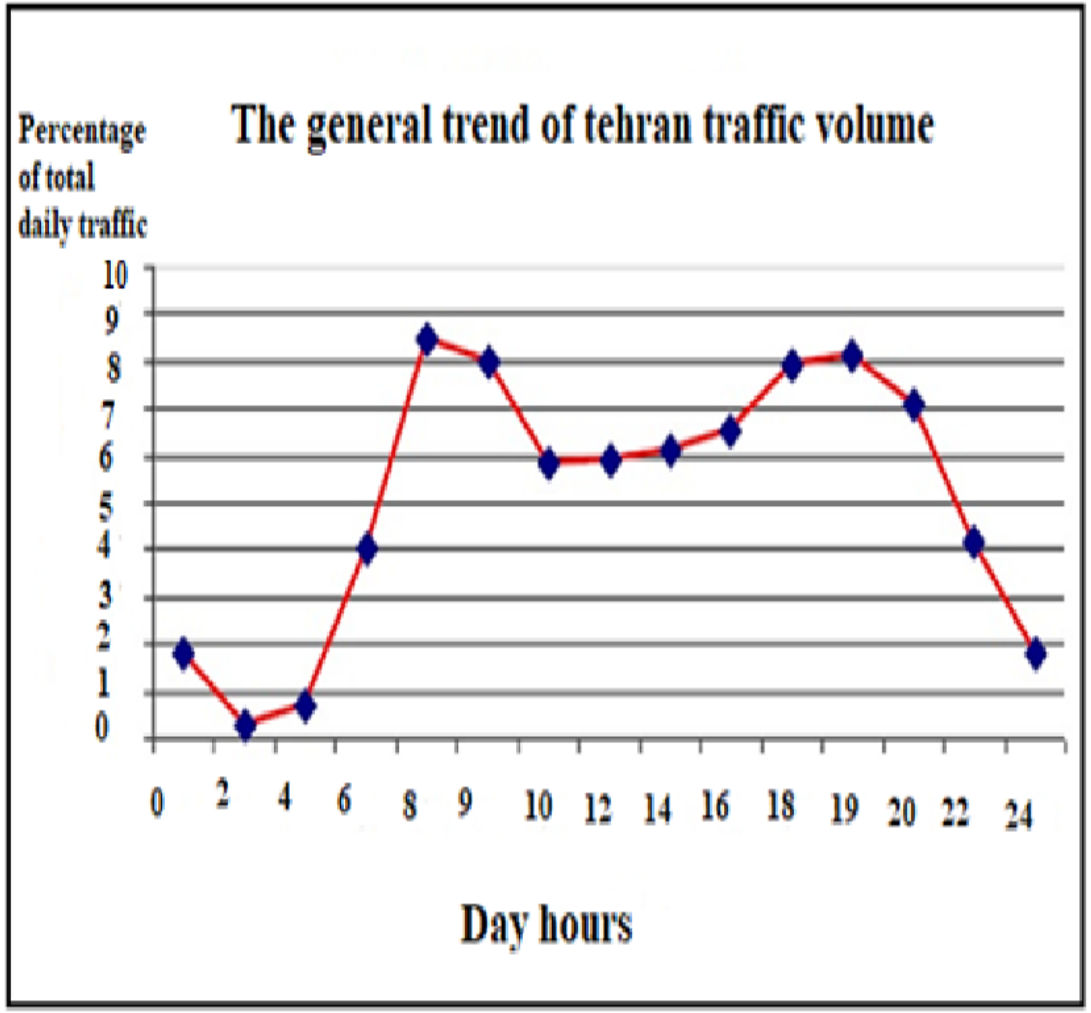


Monitoring noise pollution in IOT

- System uses air sensors to sense presence of harmful gases/compounds in the air and constantly transmit this data to microcontroller.
- Also system keeps measuring sound level and reports it to the online server over IOT.
- The sensors interact with microcontroller which processes this data and transmits it over internet.

Traffic

- Traffic jams are not constant and change at different times. Therefore, measuring the volume of traffic at different time intervals is important.
- Changes in traffic volume at different times generally have a definite trend.
- Daily changes in traffic volume in all cities are generally similar .
- As can be seen in, the daily traffic volume reaches its maximum in two times.



Thank you