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AN EVOLUTIONARY PATH FOR CONTROL OF AIR POLLUTION FROM ROAD TRANSPORT

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Abstract

The important factor for health hazards in major cities in India is air pollution. Due to the sudden increase in vehicular population in the city of Chennai, South India, there is a high increase in vehicular emission caused by the vehicular effluents like Carbon monoxide, oxides of Nitrogen, oxides of Sulfur and other Particulate Matter. This study proposes an advanced state of the art technology (On Board Diagnostics) to acquire and process data from the vehicular emissions through online data collection. This technology utilizes the Radio Frequency Identification Tag (RFID) and Zigbee or Zigbee-Pro (communication protocol) to identify and acquire vehicle related data. The significance of implementing this technology is because it is cost-effective and robust in controlling air pollution.

Key words: air pollution, carbon monoxide, vehicular emission, oxides of nitrogen, oxides of sulfur

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