

Effective Surveillance of Air Quality and Air Pollutants using IoT

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Abstract: *The levels of pollution have increased with time by a lot of factors like population, vehicle use, industrialization, volcanoes, wildfires and urbanization. Hence, it has become the need of the hour to monitor the level of air pollution. Our project aims to develop a system that can detect and monitor the presence of various air pollutants in real-time. The developed air pollution monitoring system would constantly keep track of air pollution levels using an IoT network formed by an Arduino based system, mobile phone and a computer. Whenever the poisonous gases exceed their limits, an SMS alert and an email will be sent to the user. Also, the availability of a Chabot can be very useful provided the user is believed to be in a potentially hazardous situation. It is believed that technology will play a significant role in attaining the objectives of human beings; this monitoring device can deliver real-time measurements of air quality and hence saving many lives.*

Keywords: Arduino, Air Pollution, Chabot, Industrialization, IoT

