Abstract

With the advent of urbanization and industrialization, the emission levels of pollutants have since burgeoned. The poor controlling of the emissions of toxic and particulate gasses as well as non-availability of suitable catalytic converters to save the environment from further degrading worsens the quality of air and thus pose severe health risks to the populations. This paper proposes a novel approach in which real-time analytics of pollutant levels in air is performed by using the concept of Internet of Things (IoT) along with Analytics of Things and thereby urging an institution of aware traveling amongst people. The purpose is to provide a solution for healthier living by creating awareness among people about the quality of the air they are breathing and hence enabling them to make better choices regarding their ambiance by practicing activities such as taking a less polluted route to work or buying a house in a healthier area.


Index Terms

Computer Science

Information Sciences

Keywords

Internet of Things, Analytics, Cloud Computing, Air Quality Sensors, Gas Sensors, Arduino Uno, Aware Traveling