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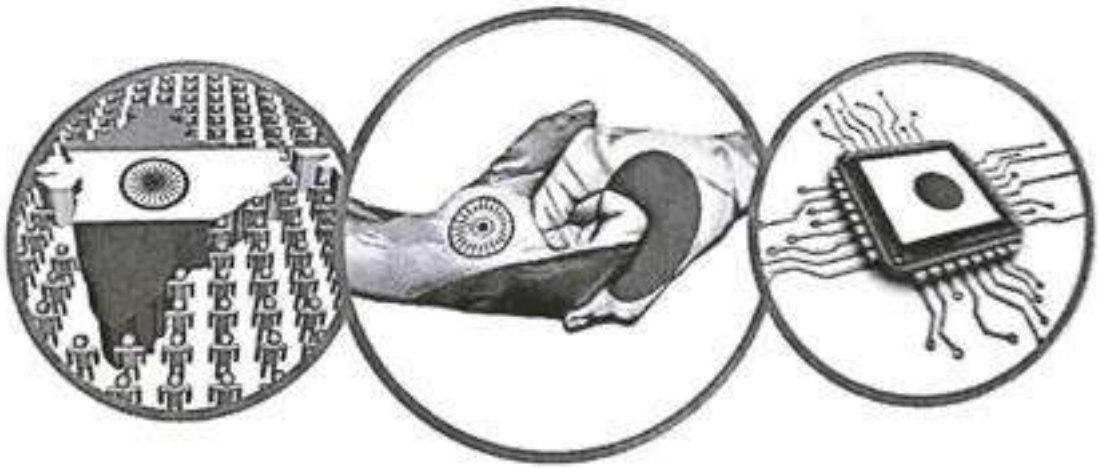
SUSTAINABLE DEVELOPMENT

Environmental Sensitivity and Sensitivity and Sustainable Development

Department of Science and Nursing



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dynamic or non-linear. ANNs provide an analytical alternative to conventional techniques which are often limited by strict assumptions of normality, linearity, variable independence etc. Because an ANN can capture many kinds of relationships it allows the user to quickly and relatively easily model phenomena which otherwise.

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Exhaust Gases: A Cause of Environmental Damage

Medha Babel

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Abstract

Exhaust gases are emitted by combustion of fuels by motor vehicles. The causes and impacts of exhaust gases on environment and human health are discussed in this article.It is necessary to solve the problem of the impact of exhaust emission from road transport on public health.

Keywords: Exhaust, Combustion, Emission

Introduction

The combustion of fuels such as gasoline, diesel etc. are responsible for emission of exhaust gases, Exhaust gases are ranked as the main cause of death and cardiac arrest [1,2]. The exhaust gases are composed of nitrogen, carbon dioxide, hydrocarbons. As the combustion process is accomplished, power is produced to move the vehicle while the heat of combustion is transferred to the cooling system. So the cooling system is an important factor in the reduction of particulate matter, the cooling system must be maintained in the same manner as the engine oiling system.

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Impact on Environment:

Exhaust gases directly affect the respiratory, nervous and cardiovascular systems in humans. Exhaust gases are also responsible for long-term diseases such as asthma, allergies, cancer. Exhaust from all combustion engines combine to produce local adverse effects on the health. Body organ and system

Conclusions:

To reduce the effects from exhaust emissions and control the Toxicity of exhaust gases. Green alternatives and modern gas analysers required it is necessary for public health.

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$PM_{2.5}$ and Lung Cancer

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Abstract

The need of fresh air is very much essential for a good and healthy life. Ongoing research is indicating that exposure to polluted air is imposing many adverse side effects on health all over world.In the air, a heterogeneous blend of liquid droplets and solid particles is particulate matter ($PM_{2.5}$ and PM_{10}) that is one of the most common factors in air pollution. $PM_{2.5}$(particle size lesser than 2.5 µm) constitutes different ions like SO_4^{2-}, O_3, Cl^-, and NH_4^+, metals, organic and elemental forms of carbons that are formed by various chemical reactions occurring in the environment.Exposure to $PM_{2.5}$ is associated not only with various respiratory diseases but it is also the reason behind the high mortality caused by cardiovascular problems.Additionally, $PM_{2.5}$ is categorized as group 1carcinogen by International Agency for Research on Cancer (IARC) because itslong-term exposure was found to be associated with the incidences of lung cancer. Lung cancer is the primary cause of death related to cancer, and also the most commonly occurring cancer in both males and females (GLOBOCON 2018). PM can affect lungs through different possible

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