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**ABSTRACT**

In Urban India, Traffic congestion is a big problem for everyone within the city. The main reasons why traffic congestion occurs are more cars, poor road management, and poor practices. Everyone wants to reach their destination in time either it may be an emergency or not. What about the critical situation of patients in an ambulance? According to Times of India about 146,133 people were killed in road accidents in India in the year 2016. Unfortunately, about 30% of deaths are caused due to delayed ambulance.

An immediate and quick treatment to a patient can save his/her life. So, why not try our best to save lives? Hence, to leverage the above fact, the proposed model will solve one of the major issues faced in ambulance vehicle patient transportation system in different areas. It has a hardware-software module that can be connected to the traffic control system at any traffic junction. The proposed expert system is based on the Internet of Things (IoT) and image processing, which will help to take proactive and preventive actions to minimize the loss of patients’ lives due to traffic congestion. Whenever the camera detects an ambulance waiting at a traffic signal, the respective signal changes from stop to go, clearing way for the ambulance to reach its destination on time. Once the ambulance crosses the signal, the signals will act accordingly.

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**LIST OF ACRONYMS**

BDD : Behavior Driven Development

CSS : Cascade Style Sheet

GB : Giga Bytes

TB : Tera Bytes

GPS : Global Position System

HTML : Hyper Text Markup Language

HTTP : Hyper Text Transfer Protocol

IDE : Integrated Development Environment

RAM : Random Access Memory

SOS : Save Our Souls

TCS : Traffic Control System

TST : Traffic Signal Timer

UML : Unified Modelling Language