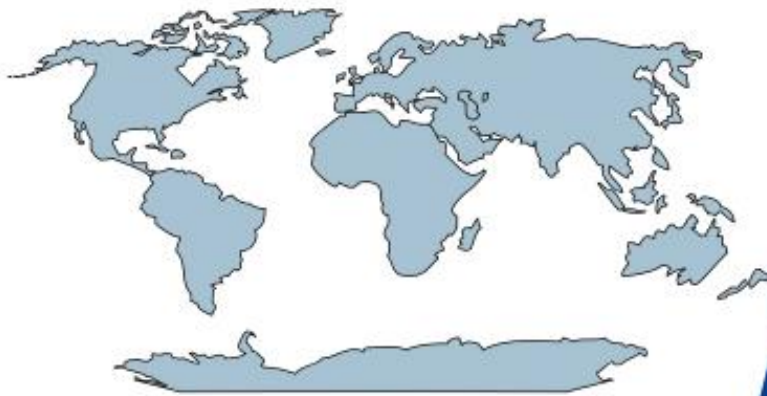


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ARTIFICIAL INTELLIGENCE BASED AUTONOMOUS (DRIVERLESS) VEHICLE

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ABSTRACT

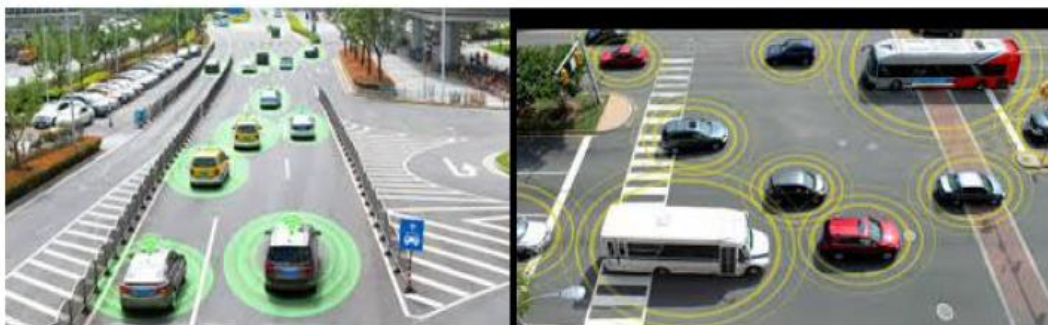
In this paper we will cover the transformation of normal conventional(Manual) cars into the driverless car. We will see the problems which faced while working on this technology, objectives, requirements for the same and required outcome. Here we have also cover the standards & significant comparison between conventional and driverless cars. Driverless driving is trying to avoid road traffic, avoid pollution, specially accidents and overcrowding. Carmakers and researchers have been working on driverless driving for years and large amount of evolution has been made. This AI base car will cause a huge diversity in human's life. we will research and analyze the various impacts on society, legal and ethical challenges, and most importantly environmental constraints. We will also research on the previous similar technologies and take a look the way researchers are working to make this technology even better in the future.

Keywords: Driverless car, Driverless car, smart car, AI car, cooperative driving, traffic efficiency, vehicle automation impacts

INTRODUCTION

As we know we are learning and progressing day by day in this world. As same the researchers and the scientist are searching and build something to decrease the human hard work. Scientist and researchers are always struggling to take humans life more condensed and comfortable. Peoples are quite excited when launching the driverless cars. Because they have so many `question in their mind. How it will work? Is it safe? Is it work like normal driver car? etc. This driverless car is save the environment and surroundings by using the advance AI technology which is build in this driverless car. In other word, these driverless cars are outfitted and installed with `special sensors`, `processors` and `a different database`. which is liable for the maneuver and performance of this car and it doesn't necessitate any driver to maneuver. It navigates itself with following destination point requested by users. it makes the huge uprising in the field of robotics, which is help to causative a lot to make this planet a safer place.

This car propose is based on the various areas of engineering which includes electrical, mechanical, computer sciences etc [1]. Major progressed is on track when the Mercedes Benz has launched the vision-guided car in 1980. After this innovation they are more focused on RADAR and GPS technologies. After that they developed the power-steering and auto gear features which reduced the human efforts while driving a car. Now they are research is going on the produce the driverless car which will be more safer, comfortable, proficient and trustworthy for the users.



The Road accidents are one of the major cause of human deaths. According to the statement 4000 peoples are died daily because of road accident. If we not taking any major action on this then it will be increased upto 2.5 millions in year. Re-searcher think how to reduced this numbers and how to save the humans life. The driverless cars can reduced this numbers because the driverless car is equipped with sensors, GPS sensors which is analyze the data surrounding of the car and take decision according to it. These types of driverless cars are more reliable as compare to the conventional cars. These driverless cars sense and controlled the vehicle speed, follow the traffic rules, sense the road, keeping safer distance between two vehicles.