

**МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ
СУМСЬКИЙ ДЕРЖАВНИЙ УНІВЕРСИТЕТ
КАФЕДРА ІНОЗЕМНИХ МОВ
ЛІНГВІСТИЧНИЙ НАВЧАЛЬНО-МЕТОДИЧНИЙ
ЦЕНТР**

**МАТЕРІАЛИ
X ВСЕУКРАЇНСЬКОЇ НАУКОВО-ПРАКТИЧНОЇ
КОНФЕРЕНЦІЇ СТУДЕНТІВ, АСПІРАНТІВ ТА
ВИКЛАДАЧІВ
ЛІНГВІСТИЧНОГО НАВЧАЛЬНО-МЕТОДИЧНОГО
ЦЕНТРУ КАФЕДРИ ІНОЗЕМНИХ МОВ**

**“WITH FOREIGN LANGUAGES TO MUTUAL
UNDERSTANDING, BETTER TECHNOLOGIES AND
ECOLOGICALLY SAFER ENVIRONMENT”**

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THE CARS WITHOUT DRIVERS

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We live in the information age when skills of finding and using information are more important than before. Every day scientists invent new technologies to make our life easier and safer. One of them is the car which works automatically without a driver.

German and American scientists proposed an idea of using the specific software which would operate cars and planes. Besides programs it also required special tools and equipment. They are radar and laser systems, GPS navigation and others.

Google and General Motors companies combined software and hardware and in 2008 started to test the first device. It wasn't a car, but it was like a robot with new navigation systems and new programs. Engineers created the first car after several months testing. The car was able to go about 5000 kilometers without a stop what is very good for a special kind of drivers.

It was too difficult to create programs for the car. Google company improved a program code for scanning the road and the nearest objects. As a result new technology gives us possibility to observe the car vision. Programmers have also coded Traffic Laws.

A laser system scans the road and the nearest objects using lasers and detects everything not far. Radar system uses radio waves to detect different objects far from the car. Radar provides information about another car speed and direction, traffic light signals and other things too. GPS makes the correct way.

The advantages are: possibility to run a car to long distances, much safer than a human driver, decreasing amount of crashing and accidents, using electricity instead of fuel.

The disadvantages are: price, requirement to update software regularly, impossibility to gain drive experience.

This technology helps people save their time, energy, health, life and develops human understanding of new fields of knowledge. For example USA improved this technology and created a plane without a pilot. Now the cars without drivers are used in such countries like Japan as a taxi and they will be everywhere soon.