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

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

"TO MAKE THE WORLD SMARTER AND SAFER"

(Суми, 23 березня 2017 року)

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
SUMY STATE UNIVERSITY
FOREIGN LANGUAGES DEPARTMENT
LANGUAGE CENTRE

**MATERIALS OF THE ELEVENTH
ALL UKRAINIAN SCIENTIFIC PRACTICAL
STUDENTS', POSTGRADUATES' AND INSTRUCTORS'
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(Sumy, March 23, 2017)

UNMANNED GROUND VEHICLE
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In the broadest sense, an Unmanned Ground Vehicle (UGV) is any piece of mechanized equipment that moves across the surface of the ground and serves as a means for carrying or transporting something, but explicitly does not carry a human being. The main parts of UGV are: sensors, platform, control, human machine interface, communication and system integration.

UGVs have many potential applications and the demand for them is ever increasing. It can be used in many situations, such as rescue operations, space applications, industrial and home usage, transportation of resources and humans and, of course, in combats. They have been used in military operations since 1960s. For example, UGVs were used for inspection at checkpoints in Iraq and Afghanistan. The number of robots used in Iraq increased from 150 in 2004 to 5000 in 2005. They disarmed over 1000 roadside bombs in Iraq at the end of 2005. By 2013, the U.S. Army had purchased 7,000 machines and 750 had been destroyed. The military is using UGV technology to develop robots outfitted with machine guns and grenade launchers that may replace soldiers.

The use of UAV in transport is becoming more popular. Google has recently presented self-driving cars technology. This technology may deliver the biggest impact on improving road safety and mobility for everyone. Their sensors and software can detect pedestrians, cyclists, vehicles, work on the roads from a distance of two football fields away in all directions.