



3RD ARTIFICIAL INTELLIGENCE AND ROBOTICS SUMMIT

(WORKSHOP)

INTRODUCTION TO ROBOTICS, TYPES AND APPLICATIONS

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INTRODUCTION TO ROBOTICS

- A real or imaginary machine that is controlled by a computer and is often made to look like a human or animal.
- A machine that can do the work of a person and that works automatically or is controlled by a computer.

USES OF ROBOTICS

- ❖ Agriculture
- ❖ Automobile
- ❖ Construction
- ❖ Entertainment
- ❖ Healthcare, hospital, patient care, surgery, research etc.
- ❖ Household purposes
- ❖ Laboratories, science , engineering , etc
- ❖ Manufacturing
- ❖ Military, surveillance, attack, etc
- ❖ Mining
- ❖ Transportations , air, ground, rail, space
- ❖ Utilities , gas, water, and electricity
- ❖ Warehouses

USES OF ROBOTICS

INDUSTRIAL APPLICATION :

- ❖ Material handling
- ❖ Material transfer
- ❖ Machine loading and unloading spot welding
- ❖ Continuous arc welding
- ❖ Spray coating
- ❖ Assembly
- ❖ inspection



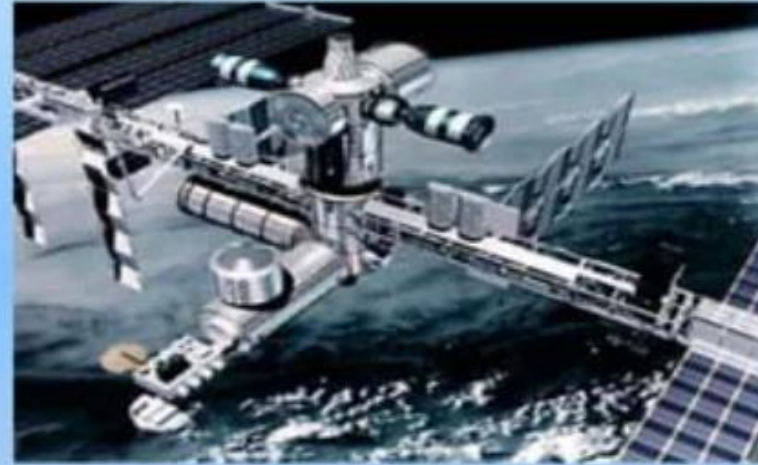
ROBOTS IN HAZARDOUS ENVIRONMENT

The hazardous environment can be define as the place where human can not survive and harmful.

Some examples of hazardous environments would be nuclear reactors, outside earth's atmosphere and even behind enemy lines in war.



SPACE EXPLORATION & RESEARCH



MILITARY APPLICATION

Military robots autonomous robots or remote controlled mobile robots designed for military applications from transport to search & attack.



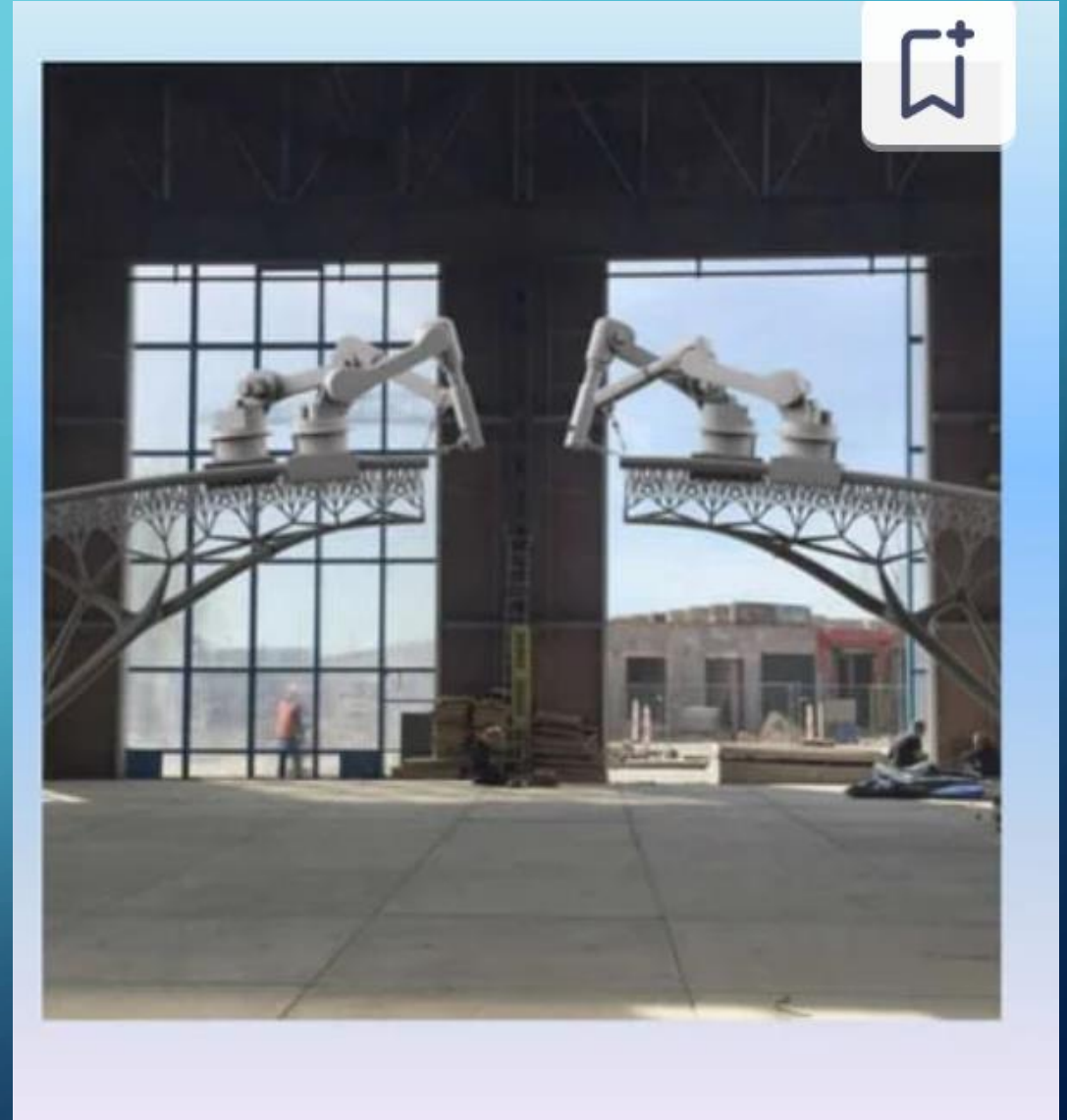


HOUSE-HOLD PURPOSE APPLICATION

A domestic robot is a type of service robot, an autonomous robot that is used for household chores.

CONSTRUCTION APPLICATION

Robot can reduce the breakneck phenomenon such as metal dissolve, pilling etc.



AUTOMOBILE APPLICATION

Robot gives automotive companies a competitive advantages.

It mainly use to improve quality and reduce warranty cost.



MEDICAL ROBOT

A medical robot is a robot used in the medical science , they include but are not limited to surgical robot





AGRICULTURAL ROBOT

Agricultural robots is a robot deployed for agricultural purposes. The main area of application of robots in agriculture today is at the harvesting stage.

CONCLUSION

Robot can be use in many other fields, and the value of a robot depend upon its application

Thank you !!!