

WHY ROBOTICS IS NEEDED

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ANNOTATION

Robots are slowly getting into people's professional and personal lives. Due to the problems faced by existing legislative framework and new legal and ethical questions, they require the attention of regulatory authorities. This article outlines ideas about innovations in robotics.

Keywords: Robotics, technology, smart regulation, responsible innovation, automatic tool.

Life is in a state of descent. Changes and discoveries due to computer and robotics are happening every day. Today, the successful entry and active participation of young people in the circuit is one of the most pressing requirements of our day. This path of progress begins with educational institutions.

Until recently, robots seemed to be an imaginary discovery for humans, and they could only be watched in films. But thanks to the advances of technology, one can understand that the future is approaching.

The word "robot" was coined by Czech writer KarelChapek and his younger brother Joseph, first created in 1920 by the LeftPlant's RUR ("Rossum Universal Robots"). Before the advent of industrial robots, the robots thought they looked like humans. Today, humanoid robots are called androids. The word robot (Czech robot - non-compulsory labor or heavy - slave) is a process that is usually produced and produced by manufacturing and other people the manufacturer refers to an automatic tool.

Modern robots can vary greatly in appearance and design. Today, industrial enterprises use a variety of robots that are far from "human" in appearance (for technical or economic reasons). It can also be controlled by a robot or operator or by a pre-installed application or shield.

Information about the meanings of modern robots - the first practical application of self-ruled mechanical humans - dates back to the elliptical era. At that time, statues of women covered with four gold waters were erected on the maiden on the island of Faros. During the day, they shine in the sun, and at night they are always shining in bright colors to look good from afar. After some time, these statues twist and signal; at night, they play the trumpeting moon, warning swimmers about the coastline.

Existing and invented imaginary robots became so popular that in 2003, the Robot Hall of Fame was established. Robots Hall of Fame was founded in 2003 by the School of Computer Science in Karnegi Mellon in Pittsburgh, USA. The purpose of the creation of the Hall of Fame of Robots is the robots in science fiction that inspired the advances in robotics and the production of real robots, which are the foundations of robotics development perpetuating images. Robots can recommend that anyone who wants to enter the Hall of Fame add the robots. The decision to include it is made by scientists, writers and researchers in the month of Judges h. Representatives of the first robot pantheon were announced at an event at the Carnegie Scientific Center, Pittsburgh, on November 10, 2003.

Robots are mainly divided into three types: a robot operated by a strict program, a robot operated by a human (operator), and an integrated robot. Depending on the type of work done, the robot is divided into manipulators, information transmitter Robot, switching robot, and so on. Both the appearance and behavior of robots remind us of humans, namely, they are anthropomorphic machines and differ from other machines in this characteristic. There are two main areas of robotics technology: used in industry and used in emergency (extreme) conditions

Robots texnica.

The robot used in the industry, e.g. the Robotmanipulator, has "mechanical hands" and an external control pulse or a self-installed software control device, an EHM (computer). The operator controls the movement of robotic hands directly or from the TV screen. Most robots are equipped with an automatic control system. Robotmanipulators are mainly used in (extreme) conditions that are dangerous to a person's health. Robots are the most effective means of process automation.

Smart robots have brought great help not only in our family life, but also in the industry, let's look back at the advantages of smart robots in a variety of fields.

The application of smart robots in different industries has different roles. With the development of robotics, industrial robots with fixed objects and inorganics are becoming agricultural robots with complex objects such as animals and plants and the scope of use of agricultural robots or robotic agricultural technologies is gradually expanding. The use of an agricultural robot not only reduces the replacement of the workforce in manufacturing, solves the problem of lack of workforce, but also improves the productivity of labor, improves the agricultural production environment, prevents pesticides, fertilizers and other damage. However, compared to industrial robots, the research and development of agricultural robots is complex muhit and structured, vague and predictable it's harder because of the working objects that can't be.

Currently, the research and development of an agricultural robot is mainly based on cultivation, insemination, spraying, vegetable grafting, transplantation, assembly, focuses on irrigation, breeding and various auxiliary operations. Robotics not only became widely used in industrial and agricultural production, scientific research, but also gradually entered the daily life of mankind. A serving robot is a common term for this type of robot. Although the service robot started late, the application's destination is very broad, currently mainly cleaning, breastfeeding, queuing, rescue, entertainment and replace people with equipment and other conditions.

A smart robot is a simple robot to use many similarities, but because of its smartness, it is even more complex to perform some dangerous or difficult tasks, tasks, etc. instead of a person can do things.

The future of intelligent robotic technology is more ymature, and they can serve people better. Industrial intelligent robot-t urn adapted to a variety of applications, the industrial intelligent i machine is usually processed into a welding robot, assembly robot, painting robot, palette robot can be divided into robots and other species. As intelligent industrial robots, they outperform traditional robots in many ways. To achieve automatic welding, welding robots are used, including spot welding (resistance welding) and bow welding robots. A robot for

assembling electrical appliances, which is more commonly used in electronic parts assembly. Instead of a human dyeing operation, a robot painted with spray . Palleting, unloading and unloading and control robots are designed to move items from one place to another with agility and precision. The application of robots in industrial production can easily and quickly change the composition or mode of work to meet changing production requirements. For example, changing the welding trajectory, changing the state of the paint, changing the assembly parts or status, etc. With the increased demand for the flexibility of industrial production lines, the demand for different types of robots is growing stronger.

Textbooks and manuals related to the study of computer technology are found in our country. However, the study of robotics has not yet been adequately conducted. However, without mastering robotics, it is impossible to achieve its achievements by joining the development of the world. (Matthew 24:14; 28:19, 20) Therefore, it has become a time-consuming requirement for robotics to be taught as a separate lesson in general secondary and secondary and higher education institutions.

In addition to being of particular interest, robotics is a master's lesson in physics, mathematics, information technology in schools, developing young people's ability to think deeply, society It is of great importance for them to feel their place in their lives. This strengthens students' love for these lessons, increases their interest, yields effective results in applying their theoretical knowledge to a mathematicia, and most importantly, the international education system It contributes to the introduction of STEM (Science, Technology, Engineering and Mathematics).

A number of successes have been achieved by the Scientific and Practical Center for the Implementation of Innovative Work at the Institute of Innovation. To assist individuals desiring to benefit the worldwide work of Jehovah's Witnesses through some form of charitable planning, a brochure has been prepared in English and French entities. In our capital, the International Robotics Challenge was held at the International Robotics Competition. Our country's youth won the Original Robot nomination at an international competition in Petrapvlovsk, Kazakhstan. In particular, the signing of a memorandum of understanding between the Scientific and Practical Center for the Development of Innovative Development and the International Robotics Olympiad Committee (International Robotics Olympiad Committee) is a great historical event It was.

The automated technology market in our country is still in development. Meanwhile, demand for industrial robots is increasing day by day. In that sense, our ministry has thoroughly studied the experience of a number of countries in this regard and has expanded our country's industrial robotics industry. At the same time, effective cooperation has been established with the TEGU Center for Industrial Robotics Automation in South Korea. Currently, our South Korean friends are interested in establishing a techno park in the country.

It should be noted that the consistent introduction of robotics into the education system will set the stage for young people to think in line with the demands of time in the future. On the other hand, it will contribute not only to the development of robotics but also to the development of various other systems of the economy.

In conclusion, one might think about the robot for a long time, even if we think briefly about it , which takes up a lot of space. It is safe to say that with the rapid development of

information and communication technologies, each of us may soon have our own intelligent robot. After all, the most popular operating system for mobile devices, Android.

ADABIYOTLAR

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