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Analysis and Study of Robotics in Different Types of Application

T. Karuppiah[1], K. Subramanian[1], N. Nandakumar[2], K. Shanmugasundaram[3]

Research Scholar, Dept. of E & I, Bharathiar University, Coimbatore, TamilNadu, India[1]
Assistant Professors, Dept. of ECS, Karpagam University, Coimbatore, TamilNadu, India[1]
Research Scholar, Dept. of ECS, SRMVCAS, Coimbatore, TamilNadu, India[2]
Assistant Professors, Dept. of ECS, SRMVCAS, Coimbatore, TamilNadu, India[3]

Abstract: The robotic many places in the world in many different ways to identify important role in many industries for many purposes. So this kind of robotics, many of them are doing a full review, Are mapped to the field of robotics, robotic kind used in the application, find out What kind of a new kind of robotic in their efforts to come into this world, it is taken in this study. Moreover, such studies can make the world a new kind of robots Hardware robots and software used to create the account and this is what, how to use them, how to use the software in a new hardware and, most of all, what are the ways of this study can also come.

Keywords: Robot, Industry, Processor, Controlling, Monitoring.

I. INTRODUCTION

What is emerging is a new kind of robotic mechanical world. It is not only useful in many fields are to the robotic. For example, the following fields are used in the bio-robotic health cents too much, public life, residential use, for industrial use, the use of the Army, and the Defense Department to use more,.. It is still an important role in various fields allow the robotic application. So robotic systems is now emerging as a major port. Robotic role in the coming period will be important in human life is not changed. In the growing field known fact that the robotic industry. Generally robotic forms are often compared with the image of man. All of these robotic or automated systems are. The second man is called as robotic. The robot is powered by the energy stored in the battery. Hardware circuit design and fitted with a control to run programs operated by robots. The robots are designed to be controlled through wired and wireless. We want to do can be run by robots. So these robots from children to adults will benefit from the ease of use of the Toys.

Since robots are generally more expensive abroad and are used only for the large. Robots could be useful not only for the sport, and the military is used to preserve and safeguard the country's border, to monitor the activities of enemies, explosive materials, such as the atomic bomb, and it examines the terrible test, perform searches across borders are effective. The medical sector is used as military robots, i.e. effective than what is used in the medical field, there is a right for it to be the largest share. The greatest use of robots are used in the medical field, the medical field is considered to be the biggest Heart Operation, these robots more effectively with the help of doctors and helps to complete, A second man as the robot is already acute, as in all things in man, the man has not done very well done. This means that the robots can perform many important and dangerous to humans, with the help of doctors all operation succeed as effective. Using a large amount of robots is used in similar industries. As already acute in some cases impossible, i.e. men, the man with the help of small-to large number of important stuff robots to complete the serves this purpose. Are now operating in industries with heavy and light objects from one place to another place in the transportation of the stuff that is smaller and more delicate items or things, is enable robots handled.

Now operating with the existing industries in the heavy and light objects at one place to another place, the transportation, the smallest and most delicate items, such matters or things, to manipulate, to job man several times very fast and very accurate work of the robots developed sense is used. Above all in the utilization of robotic applications and style, wherever rollout, how to build, program produced, how to control, let's see how good software handled.

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II. ANALYSIS OF THE EXISTING ROBOTICS

All robots have done so far were made and used for various applications are sufficient set-up and use. Its expression then sees the benefit recital sectors.

Home Applications, Commercial Applications, Security Applications, Bio-Medical Applications, Industrial Applications

Some images of the robots and the tracks during the contest

Figure 1. Tracking robot

Diagram of interface between BMM and WAM robot arm. The external PC running the BMM sends the desired joint angles to the WAM internal PC, which converts them into joint torques that are sent to the WAM arm. The process also occurs in the opposite direction, where joint angles are fed from the WAM arm to the WAM internal PC and then via UDP to the external PC back into the BMM. Bio Mimetic Model (BMM), User Datagram Protocol (UDP), whole arm manipulator (WAM)

Figure 2. WAM arm robot

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Bio mimetic robot hand design. Parallel mechanisms approach, (Left): Muscles of human hand and features of parallel actuated robot hand. (Right): Kinematics of coupled linear actuated finger.

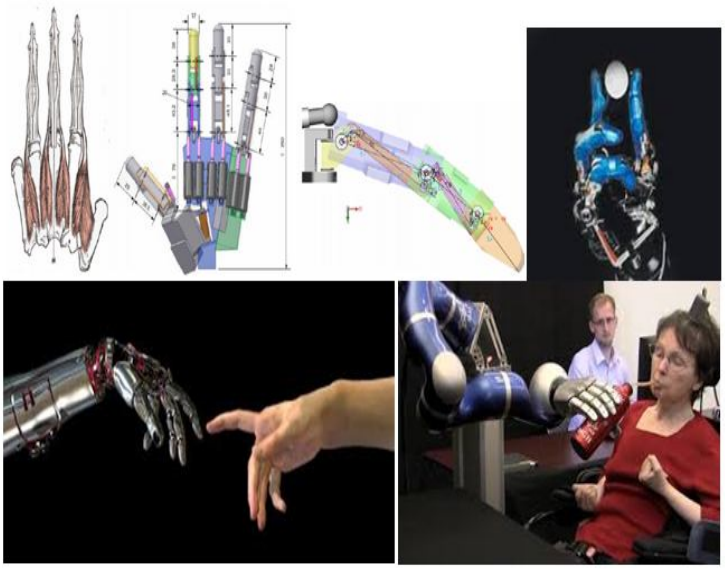

Figure 3. Bio mimetic robot hand design

The instrument manipulation module is used to control the motions of advanced endoscopic instruments with multiple degrees of freedom. These instruments should allow complex actions like suturing to be performed. It is noted that such instruments are not commercially available yet and as such this module is the most experimental. Given the high number of degrees of freedom the physician has to manage an optimized working console is designed providing a comfortable working posture, structured data presentation, and dexterous input devices. The complete setup is shown in Figure 4.

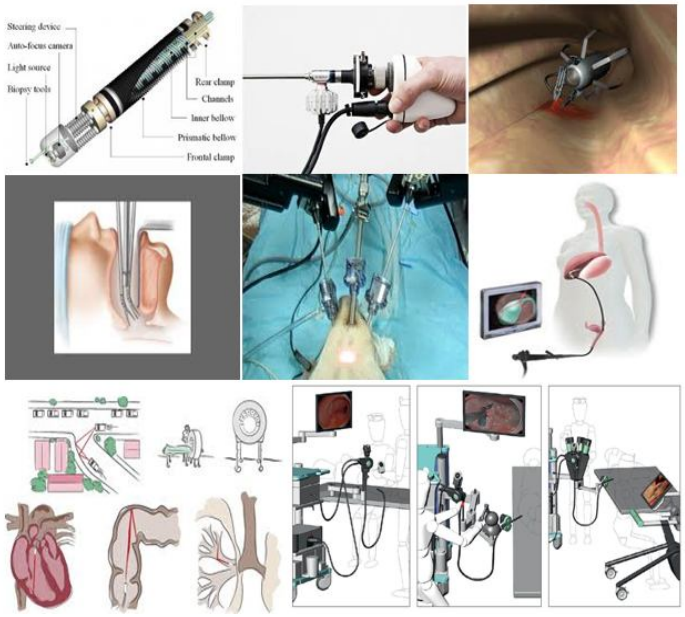

Figure 4. Endoscope robot

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The vision system and the robot used in this study

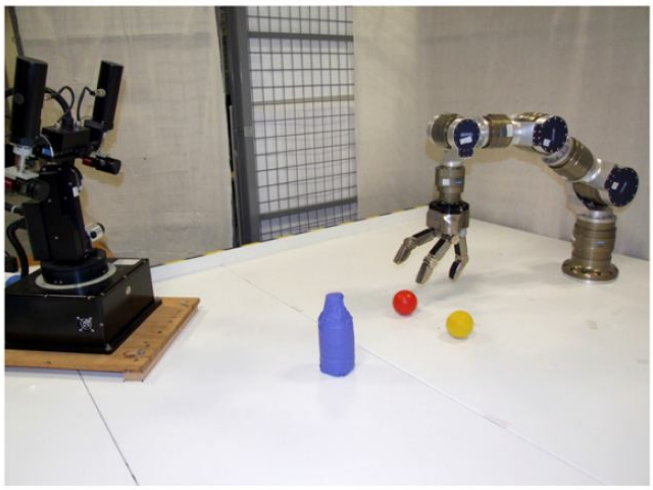

Figure 5. Vision robot

Mobile robot ARTOS in an AAL scenario

Figure 6. Mobile robot

III. ANALYSIS OF THE EXPERIMENTAL ROBOTICS

Method for the robots, the human figure, for example, take the form was formed is, the man's face, hands and fingers to model robots shapes are offering these types of robot stuff in one place to another place, and the place, and very large items cut, puncture period is used. The right choice of color and recognize objects and choose the color of the ball, i.e., pencil and multiple robots are used for such purposes. The estimated parameter values of the parameters, the amount of spin on the monitoring and control system design of the robot through the process to be performed online survey.

Further testing of the atomic bomb and explosive detection tests Bari robot is used as a benefit. The most dangerous explosives buried in soil mining, robots use the following line is used to go across the border to spy.

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IV. DECISION OF THE FEATURE ROBOTICS

The various robots are being used for the benefit of the project so far and, if practical, Now, in the coming period will be smaller than the size of the robots, the robots should be used in creating and multi-use. Now create smaller robots cannot use such technology to enhance the new technology should be used. Appropriate technology for forming Nano-science and technology. Such robots are created by using Nano-technology functions much easier to use, more subtle in the case of small-scale robots that can bring practical.

In the medical field, such as bio-medical, in-line operation, more subtle, more used to the Nano-robots. So that would make use of all kinds of tunes used to create robots and Nano-robots.

V. RESULT AND DISCUSSION

As seen above, this is how all of the robots have been developed, deployed, wherever they are, whether they saw the process being employed and how many types of software. As stated above, the machine is now in the world that we know is in need of the help of robots.

VI. CONCLUSION

All hardware and mechanical parts are made with the robots, the robots created that even the robots are operated using a variety of software products. For example, embedded systems, image processing, programmable logic controller, SCADA Use Planning are many programs like this. Many software programs, such as the use of new software from the bottle now, MEMS technology is used to control the robots.

As far as the end of the study was developed and made about hardware, software, robots have gradually come to nanotechnology, In the future, robots may not like it, then all that needs to be composed of Nano-technology to follow the end of the study.

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