

«Сейфуллин окулары – 16: Жаңа формациядағы жастар ғылыми – Қазақстанның болашағы» атты халықаралық ғылыми-теориялық конференциясының материалдары = Материалы Международной научно-теоретической конференции «Сейфуллинские чтения – 16: Молодежная наука новой формации – будущее Казахстана. - 2020. - Т.II. - С. 295-296

SMART TECHNOLOGY AND MODERN SMART SERVICES

Zhussupova A.K.

As we know, the term "Smart Technology" contributes to the development of advanced technologies and the formation of a rational society. The information society is gradually moving to a knowledge society or a smart society. The main goal of a smart society is to improve all areas of human activity using information technology.

One innovation that is here for the long haul is AI and with it, smart technology. These technology trends are changing the way we live, work and interact with one another [1].

Information communication technology usually use in the different kinds of the smart service. Smart service is the technology of integrating the Internet and digital services in various areas of our daily life. For example we know about Smart TV and Smart Shelves:

1) Smart TV is a service which combines cable channels or satellite television with the digital technology. Smart TV can be controlled by software and connected to other electronic devices. Users can download movies, games and other media and use this TV as a computer. Smart TV allows the users to control the TV using gestures or a voice.

We did some exploration features about advantages and disadvantages of Smart TV. It is our outcomes about advantages of Smart TV:

- Watch YouTube videos;
- Play games;
- You can check your e-mail;
- See what your friends are up to by logging on to your social media account;
- Netflix and Hulu are included an option regarding what to watch;
- Can get suggestion about you may want to watch.

It is our outcomes about disadvantages of Smart TV:

- Fears surrounding security
 - Fears about theft of data and loss of privacy
 - Risk that you will never be offline
 - Deterioration of health
- 2) Smart Shelves created for stores that is automated and uses IT control of goods and their condition (figure 1). We can control it by a phone.



Figure 1 - Smart Shelves

Automation of technological processes in one production process allows you to organize the basis for implementation of production management systems and enterprise management systems[2].

ICT usually used in the different kinds of the smart service.

Smart service is the technology of integrating the Internet and digital services in various areas of our daily life. For example, hotel service, health service etc.

Modern smart services use cloud robotics. The concept of cloud robotics appeared recently in 2010. Manipulation and mobile cloud robots adapted for smart service (Figure 2).

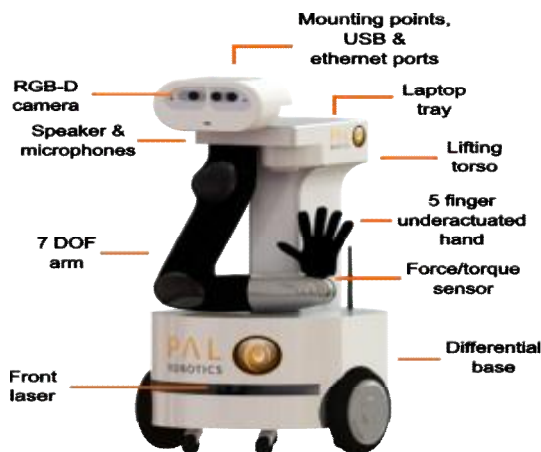


Figure 2 - Cloud service robot

Cloud robotics is used in cloud computing. Cloud computing is a type of the Internet computing that provides smart service through the cloud technology.

The main capabilities of the cloud computing service:

- You can have access to the personal information from any computer that is connected to the Internet.
- The people around the globe can share with the information easily with each other.
- You can have any operating system and a browser on your device (PC, tablet, phone) for working with the web services.

- If something will happen with your device (PC, tablet, phone), you won't lose any important information, that it will store in the cloud.
- You'll always have fresh and updated information and free software through the cloud service. Also the cloud robots perform service tasks such as: a voice and the image recognition, an environment mapping, the traffic planning and etc.

Many cloud robots serve public places, hospitals, airports and etc.

The cloud robot Kuanish serves the Kaposi office clients in our city

The French company Softbank Robotics created the robot, Josie Pepper to serve the passengers of the airport Lufthansa (Germany. Munich.). This robot is connected to the cloud service that the received voice message is processed and connected to the airport database.

References:

1. How smart technology trends are changing our lives.
/ <https://www.clickatell.com/articles/technology/smart-technology-trends-changing-lives>
2. Vorovsky, F. S. Informatika. Encyclopedic, systematic dictionary. (Introduction to modern information and telecommunication technologies in terms and facts). -- Moscow: Fizmatlit, 2007. p. 760
Scientific supervisor: senior teacher of the department ICT Koxegen A.E.