HOW TO USE DIGITAL TECHNOLOGIES Mirzakhmedova Nargiza Dilmurodovna TSPU named after Nizami Senior Teacher of the Department of Mathematics and TAT

Annotation:

The period before digital technology in the article; development of digital technology; automation through digital technologies; virtual reality; artificial intelligence; interesting facts about artificial intelligence; History of the development of artificial intelligence; Concepts such as the first study in the field of SI are presented.

Keywords: Digital technology, industrial revolution, 5G network, Motion sensors, cameras and special wristbands, artificial intelligence, artificial intelligence facts.

Digital technologies have become so embedded in our lives that today not only our daily activities, but also the educational process cannot be imagined without them. Naturally, as in other fields, the introduction of advanced technologies in education is fundamentally changing its activity. This brings innovations not only to education, but also to socio-economic development. If we look at history, there have been four industrial revolutions in the last 200 years. The first industrial revolution began with the advent of steam engines made of iron and coal-fueled, and railroads. By the end of the 19th century, sources of electrical energy and its utility were discovered. One of the most famous inventions of this era was the telephone, which made communication between people easier. The second half of the 20th century was the third industrial revolution - the computer age. During this period, the computer and the Internet appeared. We are currently living in the era of the 4th industrial revolution, digital technologies are changing the world we live in. 5G network and Internet products have started active development. As a result, all information has its own address, for example, it is now possible to turn on an alarm device or air conditioner remotely. In a few more years, it will be possible to remotely control all technical devices in the country. Currently, it is possible to technically connect all technical devices to the Internet. Thanks to the development of digital technologies, houses take care of the user not only for their safety and

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comfort, but also for their health. Motion sensors, cameras and special wristbands can monitor a person's temperature, heart rate, blood pressure, and even behavior. The system analyzes the collected data and, in the event of an emergency, shows the owner first-hand or calls a doctor for help. With such systems, not only houses, but also public places, cafes, restaurants, educational institutions, schools and kindergartens, and even the whole city can be equipped. Thanks to this, every person will have the opportunity to control their health. In order to implement all of the above mentioned innovations from a technical point of view, it is necessary to learn how to transmit a large number of short information packets, store, receive, and transmit large amounts of information, as well as to learn to identify useful information between them and extract them using the efficient use of electricity. . Digital technologies are likely to change approaches to caring for psychological well-being. Currently, drawn virtual reality environments are being created to help people overcome their fear of public speaking, as well as facilitate post-injury therapy. Currently, it is very expensive to create such scenes on individual orders. The development of technologies makes it possible to reduce the costs of content and equipment. So, over time, virtual reality is becoming cheaper and easier to move from one place to another. Human face recognition technology is actively developed, how is this process done: a computer vision system detects a person's face, then converts this information into digital data based on the facial structure and compares it with a general database, using facial recognition technology to identify customer behavior can be used for analysis or secure electronic voting. Nowadays, robots can replace people in factories, stores, cash registers, and even perform surgical procedures. They act according to the programs installed on them. Through digital technologies, it is possible to ensure the safety of the car movement, all car manufacturers have now introduced various autopilot functions, such as stopping the automatic car in the right place. Fully automated driverless cars will soon be on the roads. As a result, the number of incidents related to road traffic accidents is expected to decrease significantly. The development of digital technologies affects all areas of human life. After 50 years, the world we live in will have a completely different structure. In the future, they will be based on artificial intelligence systems, so that robots can move independently and quickly respond to changes in the situation. Therefore, robots are assigned to work in professions that are most dangerous for humans.

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We know that artificial intelligence (intelligence) is a computer or machine that imitates the capabilities of the human mind. Artificial intelligence is a special field of computer science, which deals with the creation of computer systems with the capabilities usually associated with the human mind: language understanding, teaching, discussion, problem solving, translation, and similar capabilities. Currently, in many developed countries, special emphasis is placed on improving this area. The reason is that in the process of globalization, a lot of information is received electronically. We have a lot of information, but human perception is incapable of analyzing it. That is why they are turning to artificial intelligence. The concept of "artificial intelligence" first appeared in the United States and gradually began to be widely used in other countries. The history of the development of artificial intelligence. The term "Artificial Intelligence" appeared in 1956, but today SI technology has gained real popularity against the background of increasing data volume, improving algorithms, and optimizing computing power and data storage facilities. The first research in the field of SI, which began in the 1950s, was aimed at solving problems and developing symbolic computing systems. In the 60s, the US Department of Defense became interested in this field: the US military began training computers to simulate human mental activity. For example, the Defense Advanced Research Projects Agency (DARPA) completed a series of virtual street map projects in the 1970s. And DARPA specialists managed to create smart personal assistants in 2003, long before Siri, Alexa and Cortana appeared. These works formed the basis for the principles of automation and formal logic used in modern computers, particularly in decision support systems and intelligent search engines designed to augment human capabilities. Although SIs are often depicted in science fiction films and novels as scientifically powerful robots that have gained power on a global scale, at the current stage of SI technology development, SIs are less intimidating and less intelligent. On the contrary, the development of artificial intelligence will bring real benefits to these technologies in all sectors of the economy. In which field is artificial intelligence most needed? Of course, in medicine. The reason is that now you know that infectious diseases, including the "coronavirus" infection, have spread all over the Earth. There are still people who get sick from this virus in our country. How many of our doctors are getting sick themselves in order to treat our patients infected with this virus. But there is a solution. Now is the age of technology. We need to use modern technology against this virus. That is, from "Artificial Intelligence". While scientists are

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eager to experiment with artificial intelligence (AI), many people are wary of the phenomenon. Even Tesla CEO Elon Musk called it a "major threat" to humanity and a significant source of war and unemployment. Here are some interesting facts about artificial intelligence: • Satisfaction of SI service and unlimited time criteria. • SI can adapt to disturbances • Inherits the beliefs and stereotypes of SI creators • Artificial intelligence can answer questions • SI is capable of learning everything a human can do • Robots with artificial intelligence already work as announcers, fly into space, control ships and play football • SI helps fight infectious diseases • Artificial intelligence is aimed at creating methods, tools and technologies for designing computer systems (training, expert, consulting, robot, etc.) to solve traditional intellectual problems. Unlike ordinary programmers involved in the development of specific software products, artificial intelligence specialists are able to formulate these features, which is one of the most important tasks in the design of any software product.

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