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INTELLIGENT SYSTEM: PROBLEMS AND PERSPECTIVES OF DEVELOPMENT

Introduction:

Our work deals with the current topic of the development of intelligent systems. This direction is actively developing due to scientific and technical progress and the active introduction of modern technologies into our lives. Although this is only the beginning of the era of artificial intelligence, it is used everywhere, from simple games like PacMan to fully Autonomous cars. We all have artificial intelligence assistants on our phones, such as Google Assistant, Apple's Siri, Samsung Bixby, Amazon Alexa and many others. The use of artificial intelligence is beyond imagination.

The Purpose:

The purpose of our work is to get acquainted with the problems of intelligent system and find out how they are solved for its better development.
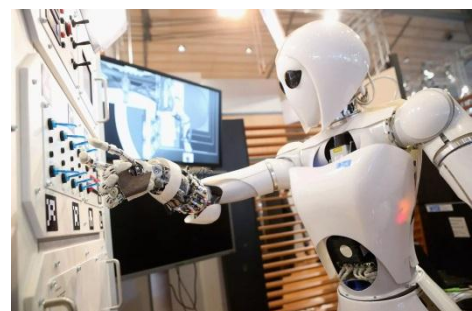
Tasks:

1. Define what an intelligent system is
2. Find problems IS and their causes
3. Find ways to solve these problems

Methods:

- search of information
- data analysis
- information synthesis

Description of the done:

At present, everything is connected in one way or another with computer technologies, which are now quite developed, but not perfect. Researchers are actively engaged in expanding the capabilities of computer science, and intelligent systems is an original and powerful tool that can change our world.
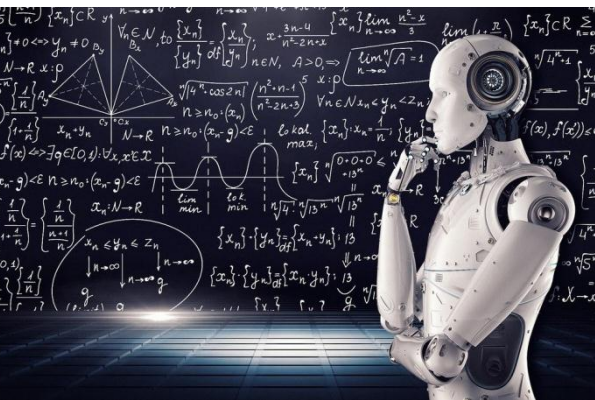
Intelligent systems are developing very rapidly. They are used in the fields of Finance, medicine, resource management, etc. But I would like to say about the problem that directly follows from this. If in the near future computers can conquer areas that previously belonged to people, then what is the role of man in this world?

What previously seemed impossible has become a reality, and now we can see how the intellectual system serves for the benefit of humanity, making it easier for them to live. However, is everything so good?

One of the most important problems of the intellectual system is the balanced distribution of labor between man and machine. Of course, robots come to help people in production, but in this situation it is possible to completely replace live labor. Another problem may be the lack of demand for unskilled personnel. The development of

intelligent systems requires a high level of knowledge among employees who interact with such technologies, so skills in this field determine successful employment. As a result, these contradictions lead to the development of unemployment.
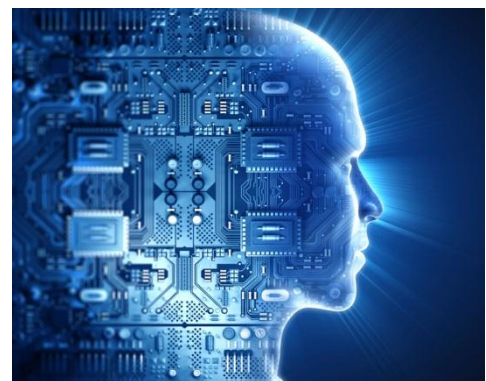

Another equally important issue is the issue of ethics related to intelligent systems. This is due to the fact that most of them are based on the principle of self-learning. In other words, the system often has an initial algorithm and trains itself, and all the details of such training are not available to a person. We can't know for sure how it develops or what methods it uses. If there is a lack of control and monitoring methods, this may lead to undesirable consequences.

The prospects for the development of the intellectual system are directly related to these problems, which in one way or another prevent it from developing fully.

Progress in the development of robotics is obvious, and the danger cannot but arise. People should create intelligent systems and observe their behavior in a simplified environment where people remain smarter than technology. You need to learn

how to manage risks, such as improving cybersecurity and quality approval standards.

Solving the ethical problem involves increasing the number of ethics specialists who will oversee the development and deployment of their intelligent systems. The heads of the world's leading companies (Google, Facebook, Amazon) say that when creating robotics, it is important to understand what is at stake, and the goal of any Creator is not just to replace people, but to help them.

Results and conclusions:

In conclusion, we would like to note that intelligent systems are an important scientific discovery of mankind, which has global development prospects. As we have seen, there are still a number of problems related to the use and future development of intelligent systems. Scientists are actively searching for ways to solve the existing contradictions and answers to a number of questions.