THE ROLE AND INFLUENCE OF INTELLIGENT SYSTEMS ON TECHNOLOGICAL PROGRESS AND ON THE WORLD AS A WHOLE

Fesenko O.K., *dagotty2@gmail.com*
Dmytro Motornyi Tavria State Agrotechnological University

Since time immemorial, scientists have been trying to artificially create a creature similar to humans. Science, including trial and error, is victory through experiments. And in fact, in reality, the implementation of such a plan is not possible without experimental operations. The fact that until recently it was a figment of the imagination of people today has already come true.

Over the past 15 years, the development of intelligent systems has gained quite some momentum, but it is foolish not to admit the fact that all this is happening at a slow pace. Why is this happening?! The reason lies in the fact that despite the development of scientific and technological progress of the last decade, this area of science is still not fully understood. The name of "intellectual system" implies the creation of a machine similar to a rational being, which the human is. But under this system is meant not just a prototype, that will repeat certain human actions, but a system that can analyze what is happening and based on this independently, look for the most optimal options for behavior and decision making [1, p. 199]. Nevertheless, the implementation of such concept is not possible at this stage of the development of the sphere of cybernetics, because people do not know how the human brain works yet, since brain neurons receive analog signals with essentially an infinite number of states. This is the so-called "Paradox of the Neuron of Infinity".

Today, some people are misled by the stereotype that human consciousness is wholly and completely conditioned by nature, partly in this statement there is some truth, but it is necessary to be aware that it is impossible to develop an algorithm that could calculate the individual's freedom of will in issues between good and evil. This is the main problem of artificial intelligence. It is possible to create only an imitation of human behavior, but to recreate human consciousness, alas, is not possible [2, p. 15].

These facts and conclusions indicate a clear connection between the field of cybernetics and biology, neurophysiology, and philosophy, but still, despite the obvious problem of artificial intelligence, in the implementation of this kind of concept, this area continues to develop and attempts are made to recreate such algorithms, which have even found application in many areas of human activity. These algorithms and their applications are studied by pure cybernetics, or as it is also called "Second-order cybernetics".

The current era of the development of cybernetics (artificial intelligence technologies) can be characterized as the era of post-cyberpunk. Since today people have learned to recreate lost parts of the body into robotic ones, that can read muscle signals, thereby allowing full control of the device, that is people have already become a kind of semi-robots, and this trend will continue to grow and open up new and unprecedented hitherto opportunities and prospects. Up to such an opportunity as humanity gaining death, since the complete transformation of human consciousness into a robotic machine will deprive it of its natural needs, diseases and make it more resistant to physical damage and in turn will negate such an inevitable truth as aging and death. When this happens is just a matter of time.

References

1. Cordeschi R. The Discovery of the Artificial: Behaviour, Mind, and Machines Before and Beyond Cybernetics. New York: Columbia University Press, 2010. 223 p.

2. Russell S., Norvig P. Artificial Intelligence: A Modern Approach. New Jersey, 2006. 1044 p.

Language adviser: Simkina M.A., Teacher of the Department of Foreign languages