### Економіка інноваційної діяльності підприємств

Іноземні мови
Підсекція «Іноземні мови»

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# CAN WE BUILD ARTIFICIAL INTELLEGENCE WITHOUT LOSING CONTROL OVER IT?

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## Purpose of the study:

- to justify the advantages of artificial intelligence (AI);
- to predict possible problems.

*The object of the research* is artificial intelligence, advantages and problems which its developing has.

The relevance of the study. The technological world is evolving at a rapid speed. But many people are currently caught up in the failure of intuition; the sense that detects a particular kind of danger. Some of us may celebrate AI, but we must understand that sometimes it may be a source of destruction. Therefore we must muse over problems, which developing of AI brings to our lives. In the process of cognition, a man should remember that the world is represented through sense organs, and his ideas about the world are an information model contained in his psyche, just as a computer program is contained in a computer. It means that we are not capable of realizing the real world to the full, and only its information models are capable of constructing. Can natural consciousness create an artificial intelligence? In other words, can a person create an artificial intelligence of his kind? Yes, he can! And he will certainly create it! Human consciousness was created in the process of information system development in creatures over millions of years. In other words, consciousness was created by the system which does not have consciousness. Now, within a few decades people using their minds will go over these stages of evolution, having created a deliberately artificial consciousness. In fact, originally nature has created the mind unconsciously. And now, the nature using the human mind is going to create it consciously. However, a man is part of nature.

The term "evolution" refers only to creatures. In every living organism there is a certain program (like programs in a computer) which provides the development and vital functions of the body. In fact, when we are talking about development, we mean development of software that is embedded in mind of any creature. That is, the phrase "the evolution of matter" can be considered incorrect. We can observe the developing of informational entity of some material objects. When we talk about soul, we mean the program that is contained in the mind of a creature.

Information may be stored only on material media and transferred only through matter. There is no information without matter. Information is a special property of some material objects. Information structures (programs) and information data exist in the psyche. This data is used by information structures. Information structures and data can be called information objects.

Comparing Information Structures and Psyche: Any computer program has certain size measured in bytes. Any information structure occupies a certain size (has certain information capacity) in the psyche as well.

Information structure and information data are nonmaterial objects that can exist only on a material medium. They occupy a certain information capacity in the psyche of a creature.

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The psyche consists of these two types of information objects. Information cannot move without the help of material media, as well as can be stored only on material media. This statement is also important for the information (nonmaterial) world as the energy conservation law for the physical world. Information structures in psyche compete with each other, providing information system development. This process manifests a human to have subpersonalities. When a person argues or talks to himself, it means that at least two of subpersonalities are performing the information struggle in his psyche. Perhaps the availability of two hemispheres of the brain is determined by two large information systems. Their information struggle provides the development of the psyche in creatures.

The psyche is composed of a logical system and neurosystem. Human neurosystem is tuned up with the help of works of art. Sensory information comes from works of art, and logic information – from science. There is no reason to block any of these sources of information. Feelings can and must be artificially simulated while creating human-like intelligence.

**Possible ways of creating artificial intelligence.** The more intellectually developed a person is the greater number of abstract images he uses. The human psyche is composed of subjective images. And the quality of images in the psyche influences the quality of human's thinking. If one asks to define some abstract image, people of different occupations give different definitions. So, different people can mean various things by the same word.

Image is a noun, and image property is an adjective. In any language there are nouns and adjectives, because the structure of language is based on the principle of consciousness. Language exists for a conscious exchange of information.

Intelligence is a matter of information processing in physical systems. We have already built narrow intelligence into our machines, and many of these machines already perform at a level of superhuman intelligence. So, mere matter can give rise to what is called "general intelligence", an ability to think flexibly across multiple domains, because our brains have managed it. But the moment we admit that information processing is the source of intelligence that some appropriate computational system is what the basis of intelligence is, and we admit that we will improve these systems continuously, and we admit the horizon of cognition very likely far exceeds what we currently know.

*To conclude*, developing of artificial intelligence brings many different problems that will be more ordinary than we can see at science fiction movies. It is unemployment, the uselessness of scientific research, unwillingness to invent what AI implies.

**Key Words:** technology, artificial intelligence, psyche, information, consciousness.

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