

MODERN TRENDS IN THE DEVELOPMENT OF ARTIFICIAL INTELLIGENCE.

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Nowadays technologies are developing with high speed and some things that were even difficult to imagine are more than ordinary ones now. Probably everybody has heard of Artificial Intelligence, but relatively few people have a clear idea of what the term really means. Roughly speaking, Artificial Intelligence is the simulation of human intelligence processes by machines, especially computer systems.

It originated in the early 1950s. Arguably, the first significant event in the history of AI was the publication of a paper entitled "Computing Machinery and Intelligence" by the British mathematician Alan Turing. In this paper, Turing argued that if a machine could pass a certain test then we would have grounds to say that the computer was intelligent. Turing test is passed, when a computer system is able to hold a five-minute conversation with humans and fool at least 30 per cent of them into believing they are dealing with another human being.

It's hard to believe, but there was no system or computer program, that had passed Turing test till last year. Eugene Goostman, a chatbot masquerading as a 13-year-old Ukrainian boy, finally passed exams. The program, whose development started in 2001—so it is really 13 years old—beat competitors by scoring 33 percent in Turing Test 2014. Eugene, thus became the first in that competition to meet the criteria of the “imitation game” for artificial intelligence.

Moreover, in the field of processing Artificial Intelligence is expanded to a new level of perception. Two groups of scientists, working independently, have created artificial intelligence software capable of recognizing and describing the content of photographs and videos with far greater accuracy than ever before, sometimes even mimicking human levels of understanding.

Until now, so-called computer vision has largely been limited to recognizing individual objects. The new software, described by researchers at Google and Stanford University, teaches itself to identify entire scenes of a group of young men playing Frisbee, for example, or a herd of elephants marching on a grassy plain.

Watson, a computer system built by IBM, has already learned to do some human tasks. Watson has been training to be a doctor for the last few years. And apparently it likes to cook in its spare time.

Today AI does various things depending on human needs and desires, starting from delivery items to people's rooms at the Silicon Valley hotel and finishing with writing a breaking news article about an earthquake that The Los Angeles Times published. So we can only observe this process and wonder every time when a machine makes a human decision.