



Institute of
Social and Economic Development

Unveiling the Real Potential of AI

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III INTERNATIONAL CONFERENCE

CHALLENGES AND REALITY OF THE IT- SPACE: SOFTWARE ENGINEERING AND CYBERSECURITY

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I earned my PhD in Economic Security of the State from KROK University of Kyiv, Ukraine on December 2015. The thesis was on **“The Economic Security of the State in the Conditions of Development of Information Society”**.

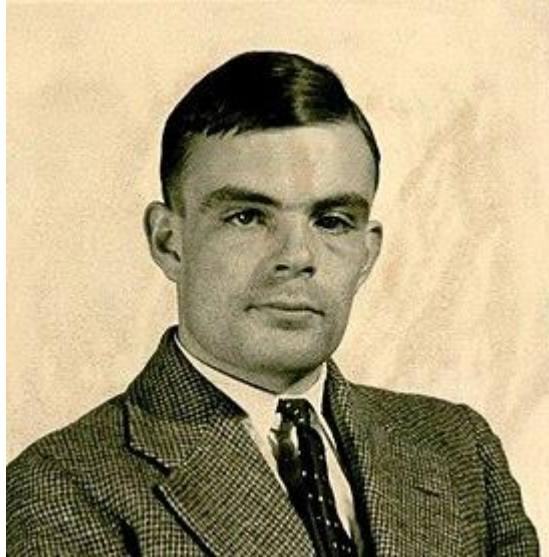
Three high educations (specializations):

- Medical Radiophysics,
- International Economics,
- Ensuring National Security.

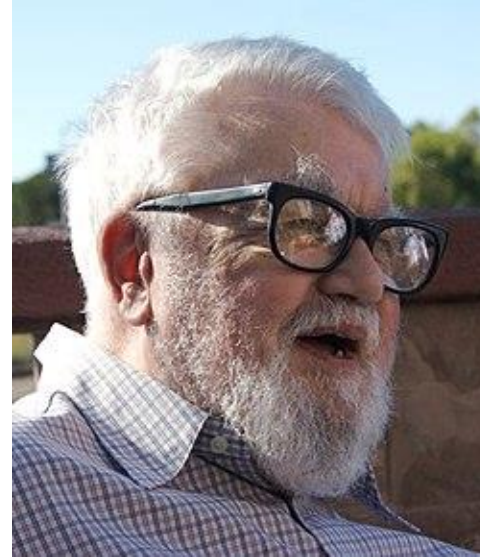
I'm the author of about 30 scientific works. My works include the monograph **"The End of Epoch: The Fatal Choice of Humanity"** (2019), as well as the fundamental work **"Palimpsest of the Gods: the Secret is Revealed"** (2020), and the historical book **"The Story of One Kin"** (2024).



Pioneers of Artificial Intelligence



Alan Turing (23 June 1912 – 7 June 1954) was an English mathematician, computer scientist, logician, cryptanalyst, philosopher and theoretical biologist.



John McCarthy (September 4, 1927 – October 24, 2011) was an American computer scientist and cognitive scientist.



Victor Glushkov (August 24, 1923 – January 30, 1982) was a Soviet computer scientist, the founding father of information technology in the Soviet Union and one of the founding fathers of Soviet cybernetics.

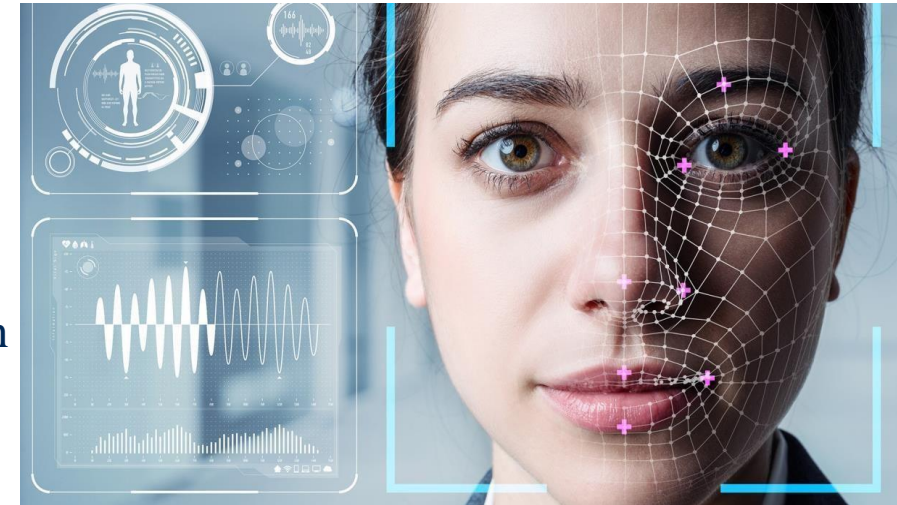
Differences between Human Intelligence and Artificial Intelligence

- At the physicochemical level, 3-5 information synapses are destroyed daily in humans, and 3-5 new synapses (neural connections) are formed out of every 100 billion neurons. AI is not capable of creating new neural connections (synapses), of which there are about a quadrillion in the human brain;
- The main feature of neurons is that all cells are simultaneously both a processor and a memory device.;
- The connections between them are formed through repeated experience or vivid emotions experienced in the past. It is thanks to the emergence of new neural connections that a person has the opportunity to receive new ideas and insights!;
- Decision making in economic behavior is genetic;
- The human brain functions on a morphogenetic level, not on an electrochemical principle;
- AI is capable of performing someone else's tasks at a certain level, not its own. AI essentially has only a computing function, while human intelligence is capable of contemplation, understanding, etc.;



Conclusions

Physiological and chemical features of the brain structure and its functioning at the morphogenetic level determine significant differences between human and artificial intelligence. It is these fundamental differences and features that indicate that it is impossible to create an adequate model of the human brain using digital methods. The so-called applications created by developers using Artificial Intelligence are merely a matrix of mathematical algorithms. The development of Artificial Intelligence will certainly bring a positive contribution to the lives of both the average consumer and the worker. However, it is important to understand that this is just a highly hyped technology, for which huge funds are allocated all over the world, and the real capabilities of AI are very limited. Similar scams have already taken place more than once in our history. For example, this is the topic of cloning, which led to nothing 20-30 years ago, or the modern production of electric cars, which causes much more harm to the ecology of the Earth compared to the production of cars with internal combustion engines.





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Thank you for attention!

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