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ARTIFICIAL INTELLIGENCE IN THE SPHERE OF SECURITY

AI is the property of intelligent system to perform creative functions that are the prerogative of human. All intelligent systems currently have a narrow scope of application. When we talk about neural networks we mean a mathematical model of a neuron. The model of a neuron consists of a number of functions that together process incoming information and output the result.

Over the past 20 years, artificial intelligence technology has been introduced into the field of security. One of the first countries to start using AI in this area was the USA. Coast Guard uses AI to guard ports in US. The system is designed to prevent terrorist attacks and is based on the analysis of passenger traffic. Based on these data, a new schedule is created that makes it difficult for terrorists to predict the number of police officers.

The software we use has bugs and vulnerabilities that can be exploited by hackers. Many companies founded or sponsored by military or research institutions are starting to develop AI-based software that will allow them to find errors in the program code. In 2016, DARPA (Defense Advanced Research Projects Agency) conducted the Cyber Grand Challenge. In this competition each system was able to automatically detect and exploit cyber vulnerabilities in its opponents, fixing its own vulnerabilities and protecting itself from external cyberattacks.

Today we live in an age of social networks and a large amount of data. The use of fake news and troll bots is spreading today. In 2017, Google and

the International Fact-Checking Network developed an algorithm of determining the authenticity of the news with an 80% success rate. This algorithm uses parsing and semantic analysis. The modern development of the analysis of human speech will help improve this algorithm.

Today troll bots can be found on any social network. For example, they are common on Twitter, Instagram, etc. More often they are used for disinformation and propaganda. For example, Twitter uses the Botometer API (Application Programming Interface). This API with an AI-based approach allows developers to detect bot accounts for potential removal.

Despite 68 years of development of AI technology, it can still be called evolving. In the field of security, there are still ways to trick the artificial intelligence security system. As a result, further improvements are needed in this technology.

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PALM OIL: GOOD OR BAD?

Palm oil is produced from the fruit of the oil palm (*Elaeis guineensis*). Humans have used it in their diet for more than a thousand years. The term "palm oil" actually encompasses several types of oil derived from the palm tree, including palm oil and palm kernel oil.

Both palm oil and palm kernel oil are versatile oils extracted from different parts of the oil palm fruit. Palm oil is extracted from the flesh or pulp of the fruit while palm kernel oil is extracted from the soft part of the seed. Although both oils originate from the same fruit, palm oil is chemically and nutritionally different from palm kernel oil. Palm oil is traditionally used on edible purposes such as cooking and frying. Palm kernel oil is generally used on non-edible purposes in the formulations of oleochemicals such as soaps, cosmetics and detergents. Refined palm oil is significantly different from unrefined. Unrefined palm oil is called red palm oil, it is rich in antioxidants: beta-carotene and vitamin E.

As it contains 50% of saturated and 50% of unsaturated fatty acids palm oil can be fractionated for different uses. Saturated fats tend to be associated with an increased risk of atherosclerosis and an imbalance in cholesterol. However, to date, there has been proven a lack of connection between saturated fat intake and cardiovascular diseases, in particular in healthy people with normal weight. People with impaired blood fat balanc-