

MACHINE LEARNING USAGE IN DIFFERENT FIELDS

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Summary

We use the term information technology for the whole industry. Actually, information technology is the use of computers and programs for sorting information. In some companies it is referred as "Information Services Management", or briefly as "Information Services". The Information Technology Department of the Big Company is responsible for keeping, processing, and receiving information.

Keywords: Machine learning. Information technology. Information Services Management.

1. Introduction

Information technologies have achieved through the development of neuroscience, before the creation of artificial intelligence [1]. It has contributed to the world's leading companies such as Google, Amazon, IBM, Microsoft, Apple, Facebook. We use technologies every day but we don't know exactly how they work. Through artificial intelligence now it's possible to change the number, read the text, voice search, talking to the robot, translate the text in real mode and so on. In the article I will discuss some of the most popular areas of its use.

2. Main part

➤ Translator

Years ago the text was translated into a foreign language. It was necessary to remove large dictionaries, search words, grammar knowledge and memorable words [2]. Now it is only necessary to put it into the application that can be translated as words, phrases, sentences, paragraphs and large texts [3].

➤ Chatbot

The next achievement of artificial intelligence is a chatbot. It knows and speaks to clients on various topics and finally gets and performs orders. It knows the subjects and objects to be distinguished. His compilation was as follows: the network was taught to send words and create two bots and talked to each other [4]. One gave orders, ie it was a human being, and the second one. They were studying each other. Bots have studied each other's strategies - based on virtual desires, performing deals. This was the first attempt to create such an interactive robot, and it was successful.

➤ **Voice**

A very necessary and interesting invention is the search for a text by voice. It is used in many fields. In search of tree structures and graphs theory is used. Music is transmitted to the word array and is looking for recursively. It is possible to find as much as you like talking and search music by typing the text in which the words are similar to the percentage accuracy. It can also distort the languages, sorting and arranging the sound waves and timbers. The search is also possible not only by talking, but with some voices.

➤ **Leap recognition**

The next achievement and victory of Deep Learning is to examine lips that is widely used in television. Its program database contains over 100 000 audio and video learning tests and suggestions/phrases that were recorded by CNN [5]. As a result, we received an artificial intelligence that can be realized in a real-time manner by observing lips with movements and guessing text [6]. The program normalizes the human face, concentrates on it and subsequently mimic its analysis (Fig. 1):



Fig.1

➤ **Optical text recognition**

Optical text recognition has reached a new level. Now it is possible to not only read the text from the pictures, but also translate them into real mode. Such devices are already built into modern cars that read traffic signs and warn the driver about them. The program takes a few shots in a short range of time and analyzes them and thus makes the possible text. Its algorithm database contains 80 billion texture options.

➤ **Age recognition**

Recently artificial intelligence engineers have developed age recognition algorithm that is already used by many smartphones (Fig. 2).

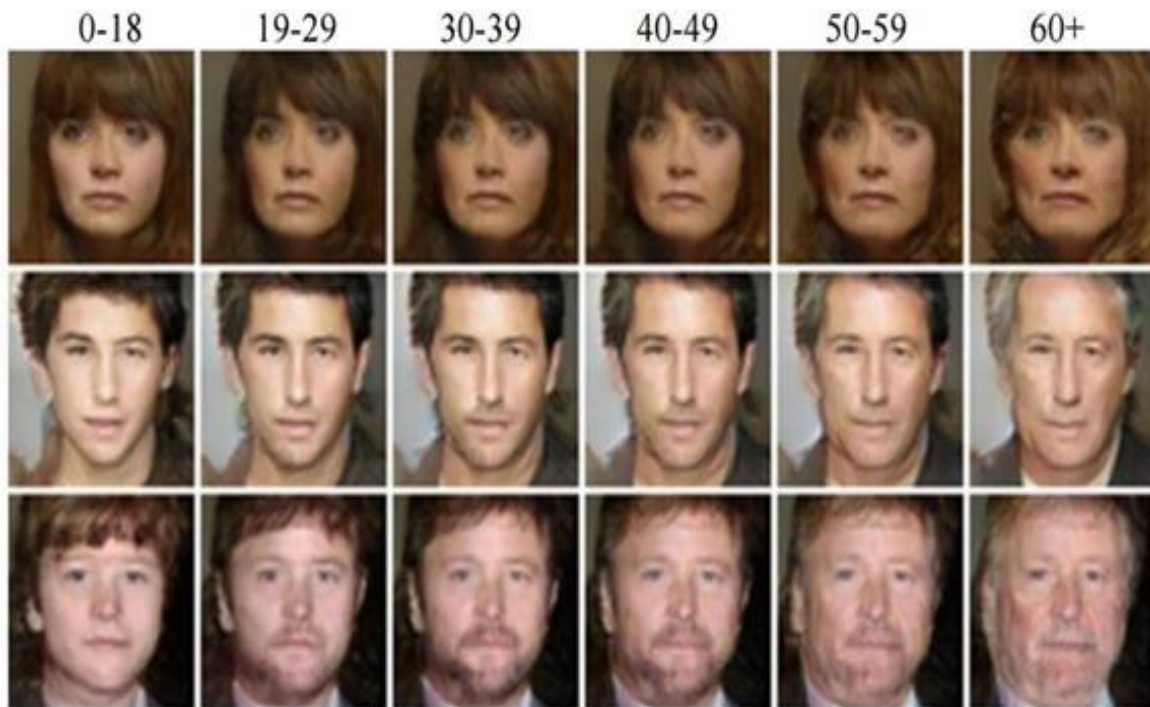


Fig. 2. Face Aging

3. Conclusion

Artificial intelligence and machine learning method is a modern technology that is used in all major organizations and areas. Its need is part of our everyday life. Even some examples discussed in the article shows that artificial intelligence is the technology of the future that is developing today and makes it easier for us to accomplish various practical tasks with the greatest profit of time.

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ხელოვნური ინტელექტის გამოყენება სხვადასხვა დარგებში

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რეზიუმე

ჩვენ ვიყენებთ ინფორმაციული ტექნოლოგიების ტერმინს მთელი ინდუსტრიის მიმართ. აქტუალურად, ინფორმაციული ტექნოლოგიები არის კომპიუტერებისა და პროგრამების გამოყენება ინფორმაციის დახარისხებისთვის. ზოგიერთ კომპანიაში იგი არის მოხსენიებული როგორც „ინფორმაციული სერვისების მენეჯმენტი“, ან მოკლედ, როგორც „ინფორმაციული სერვისები“. დიდი კომპანიის ინფორმაციული ტექნოლოგიების დეპარტამენტი პასუხისმგებელია ინფორმაციის შენახვაზე, მის უსაფრთხოებაზე, დამუშავებაზე, საჭიროების შემთხვევაში გადაცემაზე და მიღებაზე.

ИСПОЛЬЗОВАНИЕ ИСКУССТВЕННОГО ИНТЕЛЛЕКТА В РАЗНЫХ ОБЛАСТЯХ

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Резюме

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