

O. Machushnyk, Student
A. Dynovych, Lecturer, research and language advisor
Zhytomyr Polytechnic State University

SIMPLIFYING LANGUAGE BARRIERS WITH THE USE OF THE SMART TRANSLATOR GADGET “LANGOGO GENESIS”

The aim of this study was to investigate the use of artificial intelligence technologies in everyday life on the digital translator Langogo Genesis example with streaming technology and data processing for instant translation. It is presented Langogo NMT technology, which uses an artificial neural network that provides high translation accuracy.

People's vocal apparatus is built in such a way that they have the ability to use a much wider range of sounds than other inhabitants of the Earth. A person uses about 100 facial muscles to reproduce sounds while communicating. Moreover, dozens of brain areas are involved in communication to turn sound vibration into an understandable interpretation. It goes without saying that the language has arisen from the need to communicate. [2]

There is a possibility of misunderstanding each other, because the variety of languages is used in international communication. But when one doesn't understand the language, you can use the subject's display and make the appropriate sound by pointing to it. This method does not always achieve the expected result, and it is quite primitive. You see the same word in one language has a completely different meaning than in the other one. For example, the English word "gift" in German and Norwegian means "poison", and in Swedish - "married".

Nowadays, artificial intelligence (AI) is used to support the conversational interaction of machines and people, as well as to improve international communication between people. The principle of active interaction between machines and people is focused on understanding voice, text and graphics levels. [1]

The conversational artificial intelligence trend expands the communication and understanding possibilities and limits of people from different countries. Machine translation provides access to information in any form and language provided: written or spoken. It also serves as an opportunity not only to communicate, but also as an access to scientific, marketing and advertising information.

There are many virtual assistants on the market, the most popular of which are Alexa, Siri, Google Assistant, Cortana, Samsung Bixby. They use speech recognition software. There are also many language learning programs, such as Duolingo or Rosetta Stone. This software works with speech recognition algorithms to determine spoken language. It then analyzes the sound to turn it into text.

Langogo Genesis is a multifunctional device that includes an interpreter, Wi-Fi access and AI voice assistant. The device was specially designed to provide comfortable travel for every tourist, regardless his language of communication. Langogo is a two-way translator that provides instant real-time voice translation. It has 24 translation mechanisms with one-button translation design to increase the accuracy and convenience of translation from language to language.

Langogo is not only a travel translator, but also a convenient tool in the business world and education. It has integrated advanced solutions for conferences, lectures, forums translation, and all these increase the efficiency of interlingual communication.

Streaming technology instantly processes the received data and translates in just one second. Langogo also features NMT technology, which uses an artificial neural network that provides high translation accuracy. With 104 languages translated, Langogo meets a variety of requirements in several scenarios. [3]

This translator is equipped with the possibility of voice transcription and can be used during commercial conferences, media interviews, classes, lectures and training recordings. Langogo provides voice transcription, which allows you to convert audio to text in real time, including online editing. Another advantage of this device is the synchronization with the cloud storage, as the user is not limited by the Langogo device, and can view the results of the Langogo translation via any other device connected to the World Wide Web.

Langogo Genesis has gained widespread popularity among travelers around the world, as it translates with high accuracy and supports more than 100 languages. It also has a built-in AI voice assistant, which answers any user's question: help find the way, tell you the exchange rate and more. Thanks to these tools Langogo sales abroad about 30,000 units, the best international evaluation agencies have given high scores and appreciation to the app.

Genesis has many other advantages too. As a program based on artificial intelligence, Genesis is constantly updating the functionality of the Langogo device, increasing and upgrading capabilities, through the cloud technologies with many practical features. Smart Record is one of the amazing features of Genesis.

With Intelligent Recording, Genesis records and transcribes 104 languages in real time. At present, Genesis can distinguish between two or four native Chinese speakers. After recording, users can assign the number of interlocutors, and then a speech script with multiple speakers will be automatically created. On the official Langogo website, users can manage or edit the text decrypted from the record, as well as download the edited text and record. In addition, edited text can be automatically updated on the Genesis device.

Thanks to the "Intelligent Recording" function, Genesis serves not only as an AI translator, but also as an intelligent recording pen. It helps users record voices during travel, business conferences, communication, study, etc., and makes it easy to fill out travel notes, meeting minutes or study records.

Langogo Genesis was first popular in the markets of North America and France, and then became the best-selling AI translator in Amazon Germany.

AI technologies and their solutions are a driver for business growth and economic development. These technologies are used in many areas: from tourism to education and business education.

Digital translators are getting better every year. AI has evolved significantly due to the creation of neural machine translation. The ability to manage large amounts of data gives a very wide range of applications. This may mean that many companies will be able to offer better services and its quality, which eliminates the unpleasant moments of incorrect translation while using Langogo.

REFERENCES

1. Сьогодні та майбутнє AI [Електронний ресурс]. – режим доступу: <https://www.epravda.com.ua/columns/2021/11/22/679970/>
2. How Does Language Work? Philosophy Now. A magazine of ideas. Available at: https://philosophynow.org/issues/90/How_Does_Language_Work
3. Langogo: Make every word more valuable for everyone. Available at: <http://en.langogoai.com>