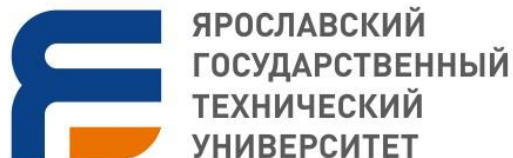


МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ
РОССИЙСКОЙ ФЕДЕРАЦИИ
ФЕДЕРАЛЬНОЕ ГОСУДАРСТВЕННОЕ БЮДЖЕТНОЕ ОБРАЗОВАТЕЛЬНОЕ
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КАФЕДРА ИНОСТРАННЫХ ЯЗЫКОВ



«ЛИНГВИСТИКА И ПРОФЕССИОНАЛЬНАЯ КОММУНИКАЦИЯ»

**Сборник научных трудов по
материалам**

**I-й Всероссийской научно-
практической студенческой
конференции с международным
участием**

Ярославль,

12 мая 2021 года

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Л59 Лингвистика и профессиональная коммуникация: Сборник научных трудов по материалам I-й Всероссийской научно-практической студенческой конференции с международным участием. Ярославль, 12 мая 2021 года, [Электронный ресурс]. - Ярославль: Изд-во ЯГТУ, 2021. – 221 с. – 1 CD-ROM

В настоящий сборник включены научные статьи, содержание которых было представлено авторами в докладах на I-й Всероссийской научно-практической студенческой конференции с международным участием 12 мая 2021 г. в ФГБОУ ВО Ярославский государственный технический университет. Рассматриваются такие актуальные проблемы, как использование возможностей цифровой среды при изучении иностранных языков, лингвистические исследования в сфере профессиональной коммуникации, передовые научно-технические знания и достижения в профессиональной деятельности.

Сборник адресован ученым, преподавателям высших и средних специальных учебных заведений, студентам, аспирантам, магистрантам, бакалаврам, а также широкой научной общественности.

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Минимальные системные требования:
PC Pentium IV, 512 Мб ОЗУ, Microsoft Windows XP/7,
Adobe Acrobat Reader, дисковод CD-ROM, мышь

ADVANTAGES AND DISADVANTAGES OF USING NEURAL MACHINE TRANSLATION (NMT) (BASED ON POPULAR ONLINE TRANSLATORS)

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***Abstract.** This article is devoted to neural machine translation. The part of the text analysis is carried out with the help of different machine translation programs. The main advantages and disadvantages of these online services are also identified that provide transfer services. Assumptions are made about the possible ways of their development.*

***Keywords:** translation activity, neural machine translation, online service, machine translation systems, advantages and disadvantages of machine translation.*

The object of this research is neural machine translation in linguistics. The subject of the research is advantages and disadvantages of using Google Translate.

Translation activities carried out by translators take place under different conditions: the texts to be translated differ in subject matter, language and mode of translation. And that makes it possible to create different kinds of translation, each of which has its own peculiarities. Nowadays, the attention of scientists is attracted by machine translation [1, c. 23].

Machine-assisted translation is known to mean the process of translating both oral and written texts from one natural language into another through specific computer programs.

In today's world, new technologies are designed not only to make human life easier, but also to propel human beings to new stages of technological development. Moreover, «information technologies ... lead to new ways of using language forms». A significant leap in development can be seen in the field of machine translation, which improves day by day.

Machine translation has undergone a long and complex development and has become an indispensable assistant, which greatly reduces both time and cost of translation. A notable development in this area has been the introduction of neural connections into machine translation technology.

Over the last few years, large companies like Google, Microsoft, and then Yandex have started to apply neural network technology to machine translation.

Neuronetwork machine translation does not simply search for and compare words and expressions of bilingual corpora, it makes it possible to penetrate more deeply the connections between words, and by a complex analysis of each sample being translated to examine their relationships in order to understand the context. For example, sentence "Can I have some tea?" will be statistically translated as « Я могу пить чай? », and neural network - «Можно чаю? ».

In machine translation, the following forms of computer-human interaction are possible:

- with post-editing. The source text is translated by the machine and the person edits the result.
- with pre-editing. First, the person recycles the text for subsequent machine processing. In doing so, it simplifies the text as much as possible, replacing complex words with synonyms and eliminating possible ambiguities.

- with inter-editing. The source text is translated by the machine, but the person interferes in its work and resolves difficult cases.
- mixed systems [2, с. 125].

Common examples include translation of sentence "Мама мыла раму" in English, which sounds like "Mum washed the frame". If the received sentence is then translated again into Russian, the different translators give their results: "мама вымыла струю" (translation Translate.ru – company PROMT) or "мама помыла раму" (version Babelfish.yahoo.com). Everybody also knows the example of translation of a sentence "My cat has given birth to four kittens, two yellow, one white and one black" by an online translator of the company PROMT, which, in Russian, sounds like «Моя кошка родила четырех котят, два желтых цвета, одно белое и одного афроамериканца». It should be noted that the developers have been working on improving their product, as previously this proposal started with the absurd «Мой кот родил...», however, it is gratifying that this translator is competent in the matter of political correctness.

So the advantages of machine translation include:

1. Quick access and high speed.

The translator program is always at hand, and contacting a translation agency is often associated with additional time and effort. Just a few seconds – and we get a ready translation of the whole text. This allows you to quickly understand the general meaning, and if the program is configured to translate texts of this particular topic, only minimal editing is required.

2. Comparatively cheap

The next benefit of machine translation is that it is comparatively cheap. Initially, it might look like a unnecessary investment but in the long run it is a very small cost considering the return it provides. This is because if you use the expertise of a professional translator, he will charge you on a per page basis which is going to be extremely costly while this will be cheap.

3. Protection and security of information.

Confidentiality is another matter which makes machine translation favorable. Giving sensitive data to a translator might be risky while with machine translation your information is protected.

4. Flexibility and versatility.

The concept of flexibility implies the ability to adjust either to a specific subject area (specialized dictionaries), or to adjust to a specific book or text (dictionaries created by users). Any translator always specializes in any one subject area, i.e. if a translator of fiction takes on the translation of scientific or technical texts, mistakes cannot be avoided. In turn, the machine translation system is universal. The user only needs to correctly connect a dictionary specialized on the relevant topic [3, с. 261].

Disadvantages include the following:

1. The main disadvantage of machine translation is low quality. Accuracy is not offered by the machine translation on a consistent basis. You can get the gist of the draft or documents but machine translation only does word to word translation without comprehending the information which might have to be corrected manually later on.

2. Systematic and formal rules are followed by machine translation so it cannot concentrate on a context and solve ambiguity and neither makes use of experience or mental outlook like a human translator can.

These are the primary advantages and disadvantages of using machine translation for a document regardless of language. They can be weighed and the right decision can be made depending on the information and the quality that is required.

Let's check the quality of translation of different sources in practice. To do this, evaluate the quality and compare the results of the translation of the four most popular online translators: "Google translate", "Yandex translate", "PROMT", "Systran translate". We will use the above-mentioned services to translate sentences of varying complexity from English to Russian. The results are shown in the Table 1.

Table 1 - Comparison of translation options

The original version of the text	Обычно вращение рулевого колеса через вал рулевого управления передается на шестерню, которая находится в зацеплении с зубчатой рейкой.
Translation provided by «Google Translate»	Традиционно, вращение рулевого колеса через рулевой вал передается на шестерню, которая находится в зацеплении с зубчатой рейкой.
Translation provided by « Yandex Translate »	Как правило, вращение рулевого колеса передается через рулевой вал на Шестерне, которая находится с одной шестерни в зацепление.
Translation provided by « PROMT »	Как правило, перенесет вращение рулевого колеса о рулевой волне на шестерню, которая стоит с жердью зуба во вмешательстве.
Translation provided by « Systran Translate »	Как правило, вращение рулевого колеса передается через рулевой вал на шестерню, которая зацепляется с шестерней.

Note - Source: Own development

The «Google Translate» was the best at this offer. It did not distort the meaning of the sentence. It is only necessary to replace the word "традиционно" with "обычно" or "как правило", and the translation will be quite correct. "Yandex Translate" conveyed the meaning of the sentence, but made several mistakes. "PROMT Translator" and "Systran Translate" performed worse than others. They distorted the meaning of the sentence and mistranslated some words. This is due to the fact that the translation was carried out without taking into account the context. However, the service "PROMT" can specify the subject of the translation. By choosing the topic "Technology: Cars", the quality of the translation has improved slightly, but still leaves much to be desired: "As a rule, it will transfer the rotation of the steering wheel about the steering shaft to the gear wheel, which stands with the gear rack in the engagement". Thus, only one translator out of four coped well with a complex sentence.

These examples show that it is much more difficult to teach the most modern computer language logic than mathematical algorithms and the logic of statistical analysis. To create a more or less coherent machine text, a program can only use a limited set of certain linguistic algorithms embedded in its base. First, the system analyzes the structural elements of the original sentence, then changes it in accordance with the rules of the language and gives the final version.

However, no matter how hard the manufacturers of machine translation programs try to improve their developments, no technology has yet stood up to comparison with the translation algorithms and numerous transformations that are taught to live translators in schools and universities. Of course, to get a coherent text, the program can be equipped with a rich vocabulary base, including stable expressions, as well as connect specialized dictionaries so that the translator can translate thematic texts [4].

But, as the real experience of working with online translators shows, this is only a small part of what is necessary to ensure acceptable quality. The main problem of such translators, as well as other machine translation systems, is the lack of background knowledge. The computer knows only the language correspondences, but the translator often has to go beyond the formal text and turn not to language knowledge, but to extralinguistic factors, including knowledge about the real world, culture, history, and technology.

Professional translators, especially technical ones, are very educated people, and all their knowledge is directly involved in the translation process. Only in this case can a truly first-class translation quality be guaranteed. Therefore, if the developers of online translation services strive to provide adequate, high-quality translations, they should provide their machine translators with the same background knowledge and, most importantly, teach them how to properly handle the stored

knowledge. Simply put, the program must understand that there is a problem that requires additional knowledge to solve, and correctly formulate a request to the existing database.

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