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61. *Школьнік С. Я., Бєсшапошнікова Т. В., Данильченко Л. Т., Костіна Л. М.* 388
ФОРМУВАННЯ ТВОРЧОГО МИСЛЕННЯ МАЙБУТНІХ
УЧИТЕЛІВ МУЗИЧНОГО МИСТЕЦТВА

PSYCHOLOGICAL SCIENCES

62. *Бєзматєрних А. С.* 394
ТЕОРЄТИЧНЕ ВИВЧЕННЯ ДОФАМІНОВОЇ ЗАЛЕЖНОСТІ: ВІД
МОЛЕКУЛЯРНИХ МЕХАНІЗМІВ ДО ПСИХОЛОГІЧНИХ
НАСЛІДКІВ
63. *Залєвська В. В.* 398
ПСИХОЛОГІЧНІ ОСОБЛИВОСТІ ФОРМУВАННЯ СКЛАДОВИХ
«Я КОНЦЄПЦІЇ» ТА ЇХ ВЗАЄМОЗВ'ЯЗОК У СТУДЕНТІВ
ВИЩИХ НАВЧАЛЬНИХ ЗАКЛАДІВ
64. *Лисєнкова І. П., Мороз Ю. В.* 407
ПСИХОСОМАТИЧНІ РОЗЛАДИ У ДІТЕЙ МОЛОДШОГО
ШКІЛЬНОГО ВІКУ
65. *Морозова С. А.* 412
ІНДИВІДУАЛЬНО-ПСИХОЛОГІЧНІ ФАКТОРИ ПРОФЕСІЙНОГО
САМОВИЗНАЧЕННЯ ПІДЛІТКІВ
66. *Прищак В. О.* 419
ПСИХОЛОГІЯ МАС ТА МОЖЛИВОСТІ ЇЇ ВИКОРИСТАННЯ У
ПОЛІТИЧНІЙ БОРОТБІ
67. *Рич К. В.* 423
ПАНІЧНІ АТАКИ В МОЛОДИХ ЖІНОК ЯК ПСИХОЛОГІЧНА
РЕАКЦІЯ НА ВІЙНУ
68. *Фіялко О. В.* 428
РОЗЛАДИ ПСИХІКИ У ВІЙСЬКОВОСЛУЖБОВЦІВ.
АЛКОГОЛІЗМ, НАРКОМАНІЯ У ВІЙСЬКОВИХ

HISTORICAL SCIENCES

69. *Яковець О. Є., Антощак М. М.* 441
УКРАЇНСЬКІ ЕТНІЧНІ ТЕРИТОРІЇ В СКЛАДІ РФ ТА УМОВИ ЇХ
ПОВЕРНЕННЯ ДО СКЛАДУ УКРАЇНИ ПІСЛЯ РОЗВАЛУ
РОСІЙСЬКОЇ ФЕДЕРАЦІЇ

POLITICAL SCIENCES

70. *Алєксєєнко А.* 450
ГЕНЕЗА ТА ПЕРСПЕКТИВА ЗАСТОСУВАННЯ
КОМПАРАТИВІСТИЧНОГО МЕТОДУ У ДОСЛІДЖЕННЯХ
ФОРМ ПРАВЛІННЯ

PHILOLOGICAL SCIENCES

71. *Ihnatenko V.* 456
THE IMPACT OF CHATGPT ON TRANSLATION ACTIVITY

PHILOLOGICAL SCIENCES

УДК 81`2

THE IMPACT OF CHATGPT ON TRANSLATION ACTIVITY

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Abstract. The research paper discusses the role of ChatGPT in the modern activity of a translator. It focuses on the advantages that the use of artificial intelligence can provide for translators and the potential risks that artificial intelligence is not yet able to cope with.

Keywords: ChatGPT, accuracy, appropriate translation, equivalent, equivalent, target language, source language.

Millions of people are using it today in online translation systems and mobile applications in order to communicate across language barriers. The question naturally arises whether such systems can approach or achieve parity with human translations.

First, it is necessary to understand what we are comparing machine translation to. It's important to note that we consider human translation to be the starting point and the benchmark. And we contrast and compare this traditional type of translation from scratch by humans with machine translation. The modern translation arsenal includes the following machine translation tools: AI artificial intelligence (ChatGPT 3, ChatGPT 3.5, ChatGPT 4) and neural networks (DeepL Translate, Google Translate, Tencent Translate), which have replaced the era of statistical translation.

This research paper will be focused on the role of ChatGPT in translation, whether its results can somehow outperform human translators, and consider its

disadvantages and advantages.

ChatGPT (Generative Pre-trained Transformer) is an artificial intelligence chatbot developed by OpenAI. It is a large statistical model of language optimised for dialogue and trained using supervised and reinforcement learning techniques [1]. This chatbot can handle various tasks, including translation.

ChatGPT can help translators in a variety of ways. Here are some examples:

- providing accurate and relevant translations of words and phrases; it can use its understanding of grammar, vocabulary, and syntax to ensure translation accuracy;
- helping you choose the most appropriate translation (sometimes a word or phrase can have several meanings or translations, and ChatGPT can give you a variety to choose depending on the context);
- recommendations on the appropriate use of terms and phrases (ChatGPT can help you to find the correct term or phrase used in a particular industry or context);
- finding a suitable equivalent for terms or expressions that do not have a direct analogue in the target language (sometimes, some terms or expressions do not have a direct equivalent in the target language, and ChatGPT can help you find the most appropriate equivalent for such cases).

An interesting feature of ChatGPT translation is the ability to construct prompts, which is the process of structuring text that can be interpreted and understood by the generating AI model. A prompt is a natural language text that describes a task that the AI should perform. The construction of prompts is made possible by in-context learning, defined as the ability of a model to learn temporarily from prompts. The ability to learn in context is an emergent ability of large language models. Context learning itself is an emergent property of model scale, which means that there are breaks in the laws of further scaling, so that its effectiveness grows at a different rate in larger models than in smaller ones [2]. This option allows you to put the original text into a certain context, i.e. to set some initial data, which is impossible to do with neural network translators such as Google, DeepL, etc.

In general, ChatGPT can help translators provide accurate, clear and contextually appropriate translation that meets their needs. For example, you can provide a prompt: "Translate the text as if it were for preschool children", or "Translate the text with a female audience in mind", etc. In fact, this is a unique opportunity for the system to take into account the peculiarities of extra-textual reality, to take into account the broader extra-linguistic context, which is in some ways revolutionary in machine translation, making machine translation even better and more sensitive to the context you give.

However, artificial intelligence can only translate simple texts and certain genres or language pairs fairly accurately, but in the case of more complex texts with high specialisation, technical language or professional slang, there may be problems with translation accuracy.

Professional translators have unique knowledge and experience in choosing the most appropriate translation for the context, as well as knowledge of grammar and style to help ensure that the translation is logical and understandable. In addition, professional translators can interact with clients and other professionals to ensure that the translation is of the appropriate quality and addresses the client's specific needs and requirements.

While ChatGPT can help with translating texts for personal use or small projects, a professional translator will provide better quality and take into account all the nuances of the text, which is essential for proper communication and understanding between cultures and languages.

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