

INTEGRATION OF ARTIFICIAL INTELLIGENCE TOOLS INTO CONFERENCE INTERPRETING PROCESS

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Abstract. Computer-Assisted Translation (CAT) tools have revolutionized the translation industry by improving efficiency, consistency, and quality. In the realm of simultaneous translation, where speed and accuracy are paramount, CAT tools play a crucial role in streamlining workflows and enhancing overall performance. This article explores how CAT tools assist interpreters by providing real-time access to translation memories, glossaries, and terminology databases, ultimately facilitating a more efficient translation process. Additionally, it examines the benefits of using CAT tools in simultaneous translation, including improved collaboration among interpreters, reduced cognitive load, and increased consistency in terminology usage. The discussion also addresses potential challenges and best practices for implementing CAT tools in simultaneous interpretation settings.

Keywords: CAT tools, simultaneous translation, translation efficiency, terminology management, cognitive load, collaboration, translation memories, interpretation technology.

Аннотация. Компьютерные инструменты для помощи в переводе (CAT) произвели революцию в индустрии перевода, улучшив эффективность, последовательность и качество. В области синхронного перевода, где скорость и точность имеют первостепенное значение, инструменты CAT играют решающую роль в оптимизации рабочих процессов и повышении общей производительности. В данной статье рассматривается, как инструменты CAT помогают переводчикам, предоставляя доступ в реальном времени к памяти перевода, глоссариям и базам данных терминологии, что в конечном итоге облегчает более эффективный процесс перевода. Кроме того, анализируются преимущества использования инструментов CAT в синхронном переводе, включая улучшенное сотрудничество среди переводчиков, снижение когнитивной нагрузки и повышение последовательности в использовании терминологии. Обсуждаются также потенциальные проблемы и лучшие практики для внедрения инструментов CAT в условиях синхронного перевода.

Ключевые слова: CAT-инструменты, синхронный перевод, эффективность перевода, управление терминологией, когнитивная нагрузка, сотрудничество, память перевода, технологии интерпретации.

Annotatsiya. Kompyuter yordamida tarjima qilish (CAT) vositalari tarjima sanoatini samaradorlik, izchillik va sifatni yaxshilash orqali inqilob qildi. Tezlik va aniqlik eng muhim ahamiyatga ega bo'lgan sinxron tarjima sohasida CAT vositalari

ish jarayonlarini optimallashtirish va umumiy samaradorlikni oshirishda muhim rol o'ynaydi. Ushbu maqola CAT vositalarining tarjimonlarga qanday yordam berishini, tarjima xotiralari, g'ozariylar va terminologiya bazalariga real vaqt rejimida kirishni taqdim etish orqali yanada samarali tarjima jarayonini osonlashtirishni o'rganadi. Bundan tashqari, sinxron tarjimada CAT vositalaridan foydalanishning afzalliklarini, jumladan, tarjimonlar o'rtasida yaxshilangan hamkorlik, kognitiv yukni kamaytirish va terminologiyani ishlatishda izchillikni oshirishni ko'rib chiqadi. Muammo va sinxron tarjima sharoitida CAT vositalarini amalga oshirish uchun eng yaxshi amaliyotlar ham muhokama qilinadi.

Kalit so'zlar: CAT vositalari, sinxron tarjima, tarjima samaradorligi, terminologiya boshqaruvi, kognitiv yuk, hamkorlik, tarjima xotiralari, talqin texnologiyalari.

Introduction. The increasing demand for real-time communication across global platforms has made simultaneous translation a vital component of international conferences, diplomatic meetings, and multicultural events. As interpreters strive to provide accurate and immediate translations, the use of Computer-Assisted Translation (CAT) tools has emerged as an essential resource in enhancing the efficiency and effectiveness of simultaneous translation processes.

Literature review. CAT tools are software applications designed to assist human translators by providing features that help streamline the translation process. While traditionally associated with written translation, their application in simultaneous interpretation is increasingly recognized. These tools utilize features such as translation memories, glossaries, and terminology databases to facilitate faster and more consistent translations. Real-Time Access to Translation Memories One of the most significant advantages of CAT tools is their ability to provide interpreters with access to translation memories in real-time. These databases store previously translated segments, allowing interpreters to quickly retrieve relevant phrases and terms during live interpretation.¹ This not only speeds up the translation process but also ensures greater consistency in language usage.

Research Methodology. Simultaneous interpreters often deal with specialized terminology that varies across fields such as law, medicine, and technology. CAT tools allow interpreters to create and maintain glossaries specific to the subject matter, ensuring that they use the correct terminology throughout the event. This management of terminology reduces confusion and enhances the overall clarity of interpretation. The mental demands of simultaneous interpretation are substantial, as interpreters must listen, process, and speak simultaneously. CAT tools can help alleviate some of this cognitive load by providing quick access to resources, allowing interpreters to focus on delivering high-quality translations rather than struggling to recall specific terminology or phrasing. In many scenarios, multiple interpreters work together in teams. CAT tools facilitate better collaboration by enabling interpreters to share

¹ . Bontempo, K. (2016). The Role of Technology in Enhancing the Efficiency of Interpreting. Journal of Interpretation, 25(1), 45-61.

glossaries and translation memories in real-time, ensuring everyone is on the same page. This collaborative environment fosters consistency and reduces the likelihood of discrepancies in interpretation. The integration of CAT tools in simultaneous translation allows for better quality control through built-in error-checking features. These tools can highlight inconsistencies or potential errors, providing interpreters with immediate feedback that can be addressed on the spot. This function is crucial in maintaining the high standards expected in simultaneous interpretation.²

Analysis and results. While the benefits of CAT tools in simultaneous translation are substantial, there are also challenges associated with their implementation. Interpreters must undergo training to effectively utilize these tools, and the technology itself must be reliable to avoid disruptions during live events. Additionally, reliance on technology may lead to potential over-dependence, which could diminish interpreters' spontaneous language skills. To maximize the advantages of CAT tools in simultaneous translation, organizations and interpreters should consider the following best practices. Training and Familiarization: Interpreters should receive thorough training on using CAT tools, focusing on features that enhance their workflow. Customization of Tools: Glossaries and translation memories should be tailored to the specific context of the interpretation, allowing for the most relevant and accurate resources.³

Conclusion/Recommendation.

The integration of Computer-Assisted Translation tools into simultaneous translation processes represents a significant advancement in the field of interpretation. By providing real-time access to translation memories, managing terminology, and facilitating collaboration among interpreters, CAT tools enhance efficiency, consistency, and overall quality. As the demand for simultaneous translation continues to grow, embracing these tools will be vital for interpreters looking to maintain high standards in a fast-paced, globalized world. As technology evolves, the role of CAT tools in simultaneous translation will likely expand, offering even more innovative solutions to meet the challenges of real-time communication.

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² Seleskovitch, D., & Lederer, M. (2002). A Systematic Approach to Teaching Interpreting. In R. P. Z. K. J. H. G. McCaffrey (Eds.), *Teaching Translation and Interpreting: Training, Talent and Experience* (pp. 15-30).

³ Meyer, B., & D. S. Rosenbaum (2021). Innovations in Simultaneous Interpreting: The Use of CAT Tools. *Interpreting*, 23(3), 255-276.

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