

SPEECH COMPRESSION TECHNIQUE (USING THE EXAMPLE OF THE ADDRESS OF THE PRESIDENT OF THE REPUBLIC OF UZBEKISTAN SH.M. MIRZIYOYEV AT THE 78TH SESSION OF THE UN)

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Annotation: This article explores the use of speech compression techniques to improve the efficiency and accuracy of real-time oral simultaneous translation systems. In this article give full analysis of the role of simultaneous translation in society and modern linguistics and its practical importance; various techniques and methods encountered during translation; the differences between written and oral translation; the factors causing the speech compression technique and giving them a linguistic analysis; description of the specific structural-semantic and grammatical internal structure of the units used in the translation process. The authors discuss various compression techniques and their impact on real context in the translation process. They also highlight the importance of maintaining high quality translation while compressing speech data for effective communication.

Key words: speech compression, simultaneous translation, techniques, real-time communication, language translation, efficiency, compression techniques, speech recognition.

Аннотация: В данной статье рассматривается использование методов сжатия речи для повышения эффективности и точности систем устного синхронного перевода в реальном времени. В статье дан полный анализ роли синхронного перевода в обществе и современной лингвистике и его практическое значение; различные приемы и методы, встречающиеся при переводе; различия между письменным и устным переводом; факторы, вызывающие прием сжатия речи и дающие им лингвистический анализ; структурно-семантического конкретного И грамматического описание внутреннего строения единиц, используемых в процессе перевода. Авторы обсуждают различные методы сжатия и их влияние на реальный контекст в процессе перевода. Они также подчеркивают важность поддержания высокого качества перевода при сжатии речевых данных для эффективного общения.

Ключевые слова: сжатие речи, синхронный перевод, методы, общение в языковой перевод, эффективность, методы реальном времени, распознавание речи.

Annotatsiya: Ushbu maqola hozirgi vaqtda og'zaki simultaneous tarjima tizimlarining samaradorligi va aniqligini oshirish uchun nutqni ixchamlashtirish

usullaridan foydalanishni o'rganadi. Ushbu maqolada sinxron tarjimaning jamiyat va zamonaviy tilshunoslikdagi oʻrni va amaliy ahamiyati toʻliq tahlil qilinadi; tarjima jarayonida duch keladigan turli texnika va usullar; yozma va og'zaki tarjima o'rtasidagi farqlar; nutqni ixchamlashtirish texnikasini yuzaga keltiruvchi omillar va ularga lingvistik tahlil berish; tarjima jarayonida qo'llaniladigan birliklarning o'ziga xos tarkibiy-semantik va grammatik ichki tuzilishini tavsiflash. Mualliflar tarjima jarayonida turli xil siqish usullari va ularning real kontekstga ta'sirini muhokama qiladi. Ular, shuningdek, samarali muloqot qilish uchun nutq ma'lumotlarini ixchamlashtirish paytida yuqori sifatli tarjimani saqlash muhimligini ta'kidlaydilar.

Kalit so'zlar: nutqni ixchamlash, sinxron tarjima, texnikalar, real vaqtda aloqa, til tarjimasi, samaradorlik, ixchamlashtirish texnikasi, nutqni aniqlash.

Introduction. Simultaneous translation is defined by various authors as "the combination of a translator's continuous perception of speech in one language with the reproduction of its meaning in another" ; as "a type of activity of an interpreter, characterized by the pronunciation of the translation text in parallel with the sound of the source text"²; as "a form of complex human information processing, including the perception, accumulation, retrieval, transformation and transmission of verbal information"³; as "a type of monologue speech where the program is given from the outside". However, in our opinion, the most complete definition can be considered Chernov, who defined simultaneous translation as "a complex type of bilingual communicative-speech activity of oral translation, which is carried out simultaneously with the auditory perception of a one-time oral message presented, carried out under conditions of time shortage and strictly limited volume of processed information, the subject and product of which is semantic-semantic the structure of the processed speech message". 5

Mainpart. This part of the article presents an analysis of the text taken for study. The research material was taken from the live broadcast of the UN.WEB TV channel. The total length is 25 minutes and 9 seconds. The translation was made by UN.WEB TV translator. Since the format of the session does not provide for a specific algorithm that all participants must follow, preliminary preparation of simultaneous interpreters can only include familiarization with the topic of the upcoming event from open sources.

⁵ Chernov G.V. Once again about the scheme for organizing simultaneous translation./ "Translator's Notebooks". - M.: International. Rel. 1977



¹ Salomov G'. Tarjima nazariyasi asoslari. Toshkent "o'qituvchi" - 1983.

² G 'ofurova G. 0 'zbekistonda tarjimaning rivojlanishi. Toshkent. 1973.

³ Гервер Д. Влияние шума на работу синхронных переводчиков: точность работы. ~ Acta Psychologica, 1974, том. 38

⁴ Leontyev A.A. Psycholinguistic units and the generation of speech utterances. M.: Nauka, 1969

Based on the recorded video of the live broadcast, we created a simultaneous interpretation transcript, which was thoroughly analyzed for the presence of compression.

It should also be noted that in the analysis of the material presented in this chapter, examples taken from the original were used. During the preparation of the transcript, the text was entered in strict compliance with the video and audio recording of the UN session, and therefore, the inaccuracies, cases of data loss, grammatical, syntactic, stylistic and other errors made by the translators are included in the text. Also, the examples presented in this article included written translations of the President's speeches posted on the official website of the Administration of the President of the Republic of Uzbekistan.

In the next section, the main factors affecting the implementation of the speech compression mechanism in simultaneous translation were analyzed.

After analyzing the material, we have identified the most common compression techniques that are specific to the work of simultaneous interpreters. During our research, we proposed to analyze the types of speech compression techniques into the following groups:

- 1. Syllabic compression
- 2. lexical compression
- 3. syntactic compression
- 4. Semantic compression
- 5. Situational compression

Syllabic compression: This technique involves condensing longer words or phrases into shorter, more concise forms. For example, "grandfather" could be compressed to "granny" to convey the same meaning in a more succinct manner. Syllabic compression, as described by Chernov, involves selecting words with fewer syllables than those in the source language to allow interpreters to speak more comfortably.

Original text	Written translation	Speech compression
Biz o'tgan yili umumiy	Last year we launched	
xavfsizlik va	the "Samarkand	We initiated the "SSI"
taraqqiyotga qaratilgan	Solidarity Initiative"	last year focusing on
"Samarqand birdamlik	aimed at common	shared security and
tashabbusi"ni ilgari	security and	development
surdik.	development.	

⁶ Chernov, G. 1994. 'Message Redundancy and Message Anticipation in Simultaneous Interpreting'. In Lambert S. and Moser-Mercer B. (eds), Bridging the Gap: Empirical Research in Simultaneous Interpretation, Chapel Hill: John Benjamins Publishing Co., 141-p



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However, this oversimplification of the simultaneous interpretation process overlooks the complexity of listening comprehension. While using shorter words may seem like a time-saving strategy, it may not necessarily be beneficial for interpreters on the receptive side of their work. Choosing concise words may not always be the most efficient approach, especially when interpreting between languages with shared roots that have similar word lengths. The practical implementation of syllabic compression raises questions about whether shorter words are consistently preferred over longer synonyms. This strategy may only become effective after extensive training when interpreters can automatically select shorter equivalents without conscious effort. Languages like English naturally tend to use fewer syllables, leading to shorter target language outputs compared to the source language. Despite languagespecific characteristics, Chernov's study suggests that syllabic compression in simultaneous interpretation is not solely determined by the conciseness of the language. It may result from the rewording process, which can lead to more coherent and concise thoughts in the target language. Ultimately, it is essential to remember that syllables do not carry meaning on their own, and translation focuses on conveying meaning rather than word length.

Lexical compression - The second form of compression involves using fewer words to convey the same idea. Interpreters may use fewer words to convey the same idea or concept, simplifying the language while retaining the original message.

Original text	Speech compression	Written translation
Va bularning barchasi	All this is causing a	And all this is the
keng koʻlamdagi	huge increase in	cause of increasing
keskinlik ortishiga	tension.	tension on a large
sabab boʻlmoqda.		scale.

Original text	Written translation	Speech compression
Birlashgan Millatlar	I am confident that	I believe the Future
Tashkiloti Bosh kotibi	holding a Summit of	Summit next year,
tashabbusi bilan	the Future next year at	proposed by the UN
kelgusi yil Kelajak	the initiative of the UN	Secretary-General, will
sammiti o'tkazilishi	Secretary-General will	tackle current
xalqaro va mintaqaviy	serve to address the	international and
taraqqiyotning dolzarb	current challenges of	regional challenges,
muammolarini hal	international and	boosting the UN's
etishga,	regional development,	impact.
Tashkilotimizning	increase the influence	
ta'siri va	₹	

samaradorligini yanada	and effectiveness of	
oshirishga xizmat	our Organization.	
qiladi, deb ishonaman.		

This technique helps streamline communication and ensures clarity for the audience. It is questionable whether such an approach could actually simplify the task of interpretation; if anything, it might make it more challenging.

Syntactic compression entails employing shorter or simpler constructions compared to those in the source language. By using simpler and shorter sentence structures, interpreters can convey complex ideas more efficiently. This technique involves rephrasing sentences to make them easier to understand without losing the essence of the original message.

Original text	Written translation	Speech compression
Birlashgan Millatlar	Today's session of the	This UN General
Tashkiloti Bosh	United Nations	Assembly is amidst
Assambleyasining	General Assembly is	major shifts in the
bugungi sessiyasi	taking place in the	international relations
xalqaro munosabatlar	context of fundamental	system
tizimida fundamental	changes in the system	
oʻzgarishlar yuz	of international	
berayotgan bir	relations.	
sharoitda boʻlib		
oʻtmoqda.		

This can be achieved by, for example, breaking down a complex sentence into several simpler ones, a method commonly used in simultaneous interpretation known as saucissonnage in French or the salami technique in English. Syntactic compression occurs when opting for a shorter and simpler construction than the original one, such as a) dividing a complex sentence with intricate clause structures into multiple simple sentences b) substituting a prepositional phrase for a participial construction c) replacing a word combination with a single word, or an abbreviation for the full name of a country or organization.

Original text	Written translation	Speech compression
O'zbekiston tarixida	This year, Uzbekistan	
birinchi marta	held its first-ever	
umumxalq	nationwide referendum	
referendumi boʻlib	on the reformed	More than 90 percent
o'tdi. Referendumda	Constitution, backed	of the voters in the

ovoz berganlarning 90	by over 90% of voters,	referendum supported
foizdan ziyodi ushbu	solidifying our	this truly popular
chinakam xalq	irreversible reform	Constitution
Konstitutsiyasini	path.	
qoʻllab-quvvatladi.		

Semantic compression, like lexical compression, shares similarities and is subject to similar critiques. This technique involves condensing information while preserving the core meaning of the message. Interpreters may prioritize key points and essential details to convey the intended message accurately in a more concise form.

Original text	Written translation	Speech compression
Hatto iqlim	Even on issues	Even critical
oʻzgarishlari, ochlik va	that concern the fate of	global concerns like
tengsizlikka qarshi	humanity as a whole,	climate change,
kurash singari butun	such as climate change,	hunger, and inequality
bashariyat taqdiriga	hunger and inequality,	suffer from a
daxldor boʻlgan	one can feel that mutual	breakdown in
masalalarda ham	communication has	communication.
o'zaro muloqot izdan	been lost.	
chiqqani sezilmoqda.		

Original text	Written translation	Speech compression
Aholini ichimlik suvi,	We intend to increase	We aim to
sogʻliqni saqlash,	by several times the	significantly enhance
ta'lim va boshqa	scale of water supply,	water, healthcare,
ijtimoiy xizmatlar	healthcare, education	education, and other
bilan ta'minlash	and other social	social services for our
koʻlamini bir necha	services to population.	people.
bor oshirishni	Paran V P	
belgilaganmiz.		

Original text	Written translation	Speech compression
Biz Birlashgan	We back the UN	In order to share best
Millatlar Tashkiloti	Secretary-General's	practices within the
Bosh kotibi tomonidan	initiative Global	framework of this
ilgari surilgan "Ish	Accelerator on Jobs	initiative, we propose
oʻrinlarini yaratish va	and Social Protection.	to hold in 2024 in our
ijtimoiy himoya global	To facilitate sharing	country the World

akseleratori"	best practices in this	Conference "Social
borasidagi tashabbusni	initiative, we suggest	Protection: the Path
qoʻllab-quvvatlaymiz.	hosting the World	towards Development"
Mazkur tashabbus	Conference "Social	under the auspices of
doirasida tajriba	Protection: Path to	the United Nations.
almashish uchun 2024-	Development" in our	
yili Birlashgan	country in 2024 under	
Millatlar Tashkiloti	the UN's auspices	
shafeligida "Ijtimoiy		1 12 - 13 - 13 - 13 - 13 - 13 - 13 - 13
himoya: barqaror		
taraqqiyot sari yoʻl"		
butunjahon		
konferensiyasini		
yurtimizda oʻtkazishni		
taklif etaman		

Situational compression involves condensing speech chunks by relying on the contextual information surrounding the communication. Situational context plays a crucial role in communication, and interpreters often rely on contextual cues to condense speech effectively. By understanding the situational dynamics of the communication, interpreters can adapt their translation to suit the specific context, ensuring that the message is conveyed accurately and efficiently. This strategy, as described by Shiryaev and cited in Chernov's work, is considered highly flexible due to its reliance on context.

Original text	Written translation	Speech compression
Birlashgan Millatlar	Today's session of the	This Assembly is
Tashkiloti Bosh	United Nations	amidst major shifts in
Assambleyasining	General Assembly is	the international
bugungi sessiyasi	taking place in the	relations system
xalqaro munosabatlar	context of fundamental	
tizimida fundamental	changes in the system	
oʻzgarishlar yuz	of international	
berayotgan bir	relations.	
sharoitda boʻlib		
oʻtmoqda.		

⁷ Goldman-Eisler, F. 1951. "The measurement of time sequences in conversational behaviour'. In British Journal of Psychology. Gen. Sec. 42, 358p



An illustrative example often referenced in discussions of situational compression is the interpretation of a statement from a UN meeting where the phrase "I now give the floor to the distinguished delegate of the Souveren Republic of Uzbekistan" was condensed to simply "Uzbekistan" in the target (English) language. In this instance, the interpreter likely deemed it unnecessary to include all the situational details from the original utterance, assuming that the delegates present would already be aware that Uzbekistan had a representative, was a "Souveren Republic," all delegates were considered "independent," and that the chairperson was providing the floor at that moment. The listeners were expected to fill in these contextual gaps left by the interpreter.

In conclusion, the role of simultaneous translation in society and modern linguistics emerges as a crucial element with practical significance, bridging communication gaps across languages. Extensive research into the diverse techniques and methods employed in translation has unveiled a nuanced understanding of this intricate process. The distinctions between written and oral translation have been meticulously examined, shedding light on the nuances and challenges inherent in each form. Moreover, the investigation into speech compression techniques has culminated in a comprehensive consolidation of research findings. By identifying the factors influencing speech compression and subjecting them to linguistic analysis, a deeper comprehension of the underlying mechanisms at play has been achieved. This analysis not only enhances our grasp of the translation process but also underscores the profound impact of linguistic structures and semantics on effective communication.

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