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## THE TECHNOLOGY FOR AUTHENTIC INTERLINGUAL TRANSFORMATIONS OF LEXICAL HOMOPHONES

Lesia Soldatova (a) \*  
\*Corresponding author

(a) Lesia Soldatova, Borys Grinchenko Kyiv University, Bulvarno-Kudriavska Street №18/2, Kyiv, Ukraine,  
l.soldatova@kubg.edu.ua, <https://orcid.org/0000-0002-0250-1007>

### Abstract

The research paper considers the problem of teaching and learning foreign languages at the time of the global pandemic. The aim is to find a variant of the technology that prevents errors arising by false analogy with existing acoustic-graphic codes in "Language of primary socialization" to "Language of secondary socialization" and improves students' knowledge, skills, and abilities for the authentic transformation of information in different national language code systems. The creating and using of the explanatory formula of the essence for the case of the interlingual lexical homophones were shown in practice. The proposed technology gives possibilities to prevent mistakes, remove the language barrier, and achieve results that meet the requirements for increasing the effectiveness of communication and for the formation of a secondary language personality. This technology can be successfully used with the project method. Research results could be useful in the theory and practice of translation, in the process of standard, distance and online teaching and learning.

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## 1. Introduction

One of the important tasks in the process of foreign language teaching and learning is the development of creating and using the informational meanings of the same acoustic-graphic codes (words) (AGCs) in the same way as native speakers do (human language competence).

In the current conditions of the global COVID-19 pandemic, teaching and learning foreign languages force us to look for new technologies for acquiring language knowledge, skills, and abilities by students of higher educational institutions.

Interactions of teachers with students through information computer technologies and the use of Internet resources are useful in the field of education for organizing as standard as distance and online teaching and learning processes for students.

## 2. Problem statement

The scientific problem of the study is to find the new technology for teaching and learning interlingual transformations of information technology for teaching and learning interlingual transformations of information from "Language of primary socialization" (LPS) to "Language of secondary socialization" (LSS) and vice versa in the context of distance and online learning during a pandemic.

The use of the *informational correlation criterion of differentiation (ICCD)* and finding *vectors of informational accordance (VIA)* ensure the adaptation of AGCs for authentic interlingual transformations in different national language code systems.

The scientific hypothesis of the study is based on the creation of *the explanatory formula of the essence (EFE)* for a lexical homophone for the case of the interlingual lexical homophone and the use of ICCD to find VIAs as a method that ensures the adaptation of AGCs in LPS and LSS to achieve the authenticity of interlingual transformations and prevent misunderstandings in the "pictures of the world" of communicants.

## 3. Research questions

Research questions: to create a technology that develops and improves the knowledge, skills, and abilities of authentic interlingual coding and decoding information from LPS and LSS and vice versa suitable for interlingual lexical homophones that can be used with the project method in the distance form of education; to show the use of EFE technology with the project method in the process of distance learning.

The object of this study is interlingual lexical homophones because they cause a lot of distortions and ambiguity in the process of learning, teaching, and transformations of information.

#### **4. Purpose of the study**

The aims of the study are to create and show the technology for foreign language teaching and learning together with the project method in the process of distance and online learning; to analyze and synthesize interlingual information encoded in the Images of interlingual lexical homophones and reversely transformation of the Image into encoded information to achieve the authenticity of interlingual transformations, to increase the vocabulary and avoid the conflict of "pictures of the world."

The scientific novelty is the analytical approach to the process of interlingual transformations of interlingual lexical homonyms; creating EFE for the case of the interlingual lexical homophone; determination of VIA in a source language and target language for an authentic transformation of information; usage with the project method.

#### **5. Research methods**

##### **5.1. Peculiarities of autential coding, decoding, and using ages in the process of discourse creation**

Interlingual transformation requires the authenticity of input and output information, i.e. achieving unambiguous semantization of AGCs in different national language code systems. It causes many difficulties for language skills formation. "Language skill – knowledge about language symbols such as syntax, voice, word formation rules, vocabulary, etc." (Luis Miguel Dos Santos, 2020, p.105). The general information ambiguity causes the problem of the existence of the intralingual lexical polysemantic ambiguity and the interlingual lexical polysemantic ambiguity, interlingual lexical homonymous ambiguity and the intralingual lexical homonymous ambiguity.

##### **5.2. Interlingual lexical homophones in the practice of interlanguage transformations**

Problems with reaching authenticity are identified in LPS and LSD with the manifestation of information ambiguity.

Often in the process of learning foreign languages, students are faced with cases when "words of different languages look deceptively equivalent...You should be very careful with using of a new word, the equivalent of the native word: the concept is behind the word, the object or the phenomenon of the world reality is behind the concept, but it is the world of another country, foreign, alien, strange" (Ter-Minasova, 2000, p. 35).

We have analyzed definitions, types, and problems with an authentic understanding of the information kept in intralingual lexical ambiguous AGCs (lexical homonyms and polysemantic AGCs) (Soldatova, 2007), for ambiguity words translation (Soldatova, 2012), and for discourse creation (Soldatova, 2016). We have studied problems with interlingual homonymy (Ternová, and others) and known types of interlingual homonyms.

Distance learning is "Taking classes in locations other than the classroom or places where teachers present the lessons. Distance learning uses various forms of technology, especially television and computers, to provide educational materials and experiences to students" (Branco, p. 16).

It is possible to define the basic principles of teaching foreign languages which ensure successful learning, and their importance increases with distance and online teaching:

- the communicative principle. It is provided when performing and discussing cooperative problematic assignments, individual and joint projects, working with information obtained from various sources of information;
- the principle of consciousness. It provides support on a certain system of rules for the formation of knowledge and skills. As a result, it gives a conception of the system of the language being studied;
- the principle of the basis on students' LSS. It involves the use of the language of social socialization as an indicative basis for foreign language speech activity;
- the principle of visualization. It provides for various types and forms of visibility: linguistic, visual, audio;
- the principle of a positive emotional background. It forms the motivation for learning LSS. It can be achieved by interest and the specific organization of the teaching and learning process, the system of relationships between the teacher and students in the group;
- the principle of accessibility. It is the creation and implementation of events: videoconferencing and online broadcasts in distance courses designed for the special development of educational materials at different levels of complexity;
- the principle of authenticity. It ensures the process of information formation, i.e. creation of structural symbols of the human brain: integrity, completeness, the accuracy of detection, and the transmission of information.

Thus, the information will not be revealed accidentally or subjected to intentional or unintentional distortions.

The usage of the project method in the process of foreign languages teaching and learning allows students to solve problems with minimal teacher involvement because project work focuses on applying, not imparting, specific knowledge or skills: students "able to acquire independence, power of judgment, and the ability to act," "students first learn, in a course of instruction, the skills and knowledge that they then apply independently and creatively in the practical project" (Knoll, 1997).

The teacher is seen more as a helper than as a source of knowledge and information. Students independently determine the semantic and structure-forming features, differentiate the analyzed AGCs into groups of essential features, create, and show the presentation in PowerPoint with the results of the study.

## 6. Findings

We offer the universal suitable for all languages technology of interlingual transformation of interlingual lexical homophones with reaching of authenticity, without conflicts of "pictures of the world."

The basic algorithm of the EFE technology for the case of the interlingual lexical homophone consists of **a set of actions:**

1. Analytical description of lexical homophones' meanings:
  1. 1. The essence of the object;

1. 2. Explanation of the essence of the object;
2. Analytical description of the object's functions:
  - 2.1. Task, action, or activity of the object;
  - 2.2. Explanation of the functional essence of the object.
3. The determination of crossing VIA by the essence of all correlations which together show the presence (∩) or lack (∩) of correlation in the analyzed interlingual lexical homonyms:
  - 3.1 After the positions of comparison 1.1;
  - 3.2 After the positions of comparison 1.2;
  - 3.3. After the position of comparison 2.1;
  - 3.4. After the position of comparison 2.2.
4. The general conclusion.

The following processes are used for the creation of EFE for lexical homophones for the case of the interlingual lexical homophone:

- formation of abstract, quasi-real, surreal, allegorical, categorical information;
- ensuring the authenticity of the received information.
- mental (the process of thinking, Internet sources, and other information resources using);
- communicative (the interaction of participants in the process of discourse creation, communication: transferring, discussing, consolidating the received information, assessing the acquired knowledge, skills, and abilities to express thoughts in various ways, developing the skill of paraphrasing).

We offer an example of using EFE for the lexical homophone for the case of the interlingual lexical homophone for AGC "box" [bɒks] (English) and AGC "бокс" [bɒks] (Ukrainian).

Examples are demonstrated in Table 1. "AGC "Бокс" (Ukrainian)", Table 2 "AGC "Box" (English)", Table 3, "Interlingual homonyms (IH) "Box" [bɒks] (Engl.) and "Бокс" [bɒks] (Ukrainian)", Table 4. "Authentic transformation of interlingual homonyms".

**Table 1. EFE for AGC "Бокс" [bɒks] (Ukrainian)**

Ukrainian language	English language
<b>1. Analytical description of homophonic AGC's meanings:</b>	
<b>1. 1. The essence of the object</b>	
Бокс – 1	sport
Бокс – 2	hairstyle
Бокс – 3	area
Бокс – 4	area
Бокс – 5	space
Бокс – 6	container
<b>1. 2. Explanation of the essence of the object</b>	
Бокс – 1	fighting with the fists, especially with padded gloves in a roped square ring according to prescribed rules (Bilodid, 1970)
Бокс – 2	the name of the masculine short haircut <a href="http://sum.in.ua/s/boks">http://sum.in.ua/s/boks</a> (Bilodid, 1970)
Бокс – 3	isolation compartment in hospital (Busel, 2005)
Бокс – 4	isolation compartment where scientific experiments, analyses, and researches (require isolation and sterility) are carried out (Busel, 2005)
Бокс – 5	a building for housing a motor vehicle or vehicles (Busel, 2005)
Бокс – 6	a square or rectangular container with stiff sides and sometimes a lid

	(Busel, 2005)
<b>2. Analytical description of the object's functions:</b>	
<b>2.1. Task, action, or activity of the object;</b>	
Бокс – 1	to compete
Бокс – 2	to cut
Бокс – 3	to separate
Бокс – 4	to isolate
Бокс – 5	to keep safe
Бокс – 6	to hold
<b>2.2. Explanation of the functional essence of the object.</b>	
Designed and used	
Бокс – 1	as a sport, in which athletes strike one by one with their fists in special gloves
Бокс – 2	to show restrained decisive style
Бокс – 3	to isolate a patient in a hospital
Бокс – 4	for microbiological and other biological experiments, analyses, and researches
Бокс – 5	for parking a vehicle in the collective garage
Бокс – 6	to hold or transport something

**Table 2. EFE for AGC “Box” [bɒks] (English)**

<b>Analytical description of lexical homophones' meanings:</b>	
<b>1.1.Essence of the object</b>	
Box – 1	container
Box – 2	container
Box – 3	equipment
Box – 4	equipment
Box – 5	container
Box – 6	production
Box – 7	measurement
Box – 8	space
Box – 9	place
Box – 10	area
Box – 11	space
Box – 12	address
Box – 13	plant
Box – 14	punch
Box – 15	area
Box – 16	equipment
Box – 17	area
<b>1.2. Explanation of the essence of the object</b>	
Box – 1	a square or rectangular container with stiff sides and sometimes a lid (Cambridge English Dictionary: Meanings & Definitions)
Box – 2	an open cargo container of a vehicle (Cambridge English Dictionary: Meanings & Definitions)
Box – 3	a self-contained piece of electronic equipment, an automobile transmission etc. (Cambridge English Dictionary: Meanings & Definitions)
Box – 4	television, a signaling apparatus, etc. (Cambridge English Dictionary: Meanings & Definitions)
Box – 5	a small enclosed container for a dead body (Cambridge English Dictionary: Meanings & Definitions)
Box – 6	the contents of the box (Cambridge English Dictionary: Meanings & Definitions)
Box – 7	a measure of quantity (Cambridge English Dictionary: Meanings & Definitions)
Box – 8	a form, sports field, road, etc. (Cambridge English Dictionary: Meanings & Definitions)

Box – 9	a small enclosed place, various small cubicles, kiosks, or shelters (Macmillan Dictionary)
Box – 10	a small separate area with seats in a theatre or at a sports ground or stadium (Macmillan Dictionary)
Box – 11	any square or rectangular space for writing on a form or computer screen (Macmillan Dictionary)
Box – 12	a cell for holding mail (Merriam-Webster dictionary)
Box – 13	a small evergreen tree with small, shiny leaves (Cambridge English Dictionary: Meanings & Definitions)
Box – 14	a slap with the fist especially on the ear (Merriam-Webster dictionary)
Box – 15	a small separate area with a driver's seat on a carriage or coach (Macmillan Dictionary)
Box – 16	irrigation equipment for dividing water (Collins Online Dictionary)
Box – 17	a small separate area (compartment) for a horse (Macmillan Dictionary)
<b>2. Analytical description of the object's functions:</b>	
<b>2.1. Task, action, or activity of the object</b>	
Box – 1	to hold
Box – 2	to transport
Box – 3	to move
Box – 4	to inform
Box – 5	to hold
Box – 6	to hold
Box – 7	to measure
Box – 8	to separate
Box – 9	to separate
Box – 10	to separate
Box – 11	to separate
Box – 12	to hold mail
Box – 13	to construct
Box – 14	to hit
Box – 15	to separate
Box – 16	to separate
Box – 17	to separate
<b>2.2. Explanation of the functional essence of the object. Designed and used</b>	
Box – 1	to contain and / or store something, to give something as a present
Box – 2	to hold or carry smth
Box – 3	for controlling, generating, supplying, transforming or transmitting electricity etc.
Box – 4	to convey information
Box – 5	as a container in which a dead body is buried or cremated
Box – 6	for designation what is contained in smth.
Box – 7	for measuring something
Box – 8	for separating from the main area by lines
Box – 9	as a small country house
Box – 10	to separate from the other seats in a theatre or at the side of a sports field
Box – 11	to separate from the main area by lines
Box – 12	as a place where letters can be sent and from which you can collect them
Box – 13	to form hedges, borders, and topiary figures
Box – 14	to strike with the fist
Box – 15	as a seat where the person who is driving sits
Box – 16	to dividing water into two or more ditches in an irrigation system
Box – 17	to held a horse immediately prior to the start of a race

**Table 3. EFE for interlingual lexical homonyms “Box” [bɒks] (English) and “Бокс” [bɒks] (Ukrainian)**

<b>3. The determination of crossing VIAs by the essence of all correlations which together show the presence (∩) or lack (⊕) of correlation in the analyzed interlingual lexical homonyms:</b>
<b>3.1 After the positions of comparison 1.1</b>
Бокс – 1 ∩ Бокс – 1
Бокс – 2 ∩ Бокс – 2
Бокс – 3 ∩ Бокс – 4 ∩ Box – 10 ∩ Box – 15 ∩ Box – 17

<p><math>\text{Box} - 5 \cap \text{Box} - 8 \cap \text{Box} - 11</math> <math>\text{Box} - 6 \cap \text{Box} - 1 \cap \text{Box} - 2 \cap \text{Box} - 5</math> <math>\text{Box} - 3 \cap \text{Box} - 4 \cap \text{Box} - 16</math> <math>\text{Box} - 6 \cap \text{Box} - 6</math> <math>\text{Box} - 7 \cap \text{Box} - 7</math> <math>\text{Box} - 9 \cap \text{Box} - 9</math> <math>\text{Box} - 12 \cap \text{Box} - 12</math> <math>\text{Box} - 13 \cap \text{Box} - 13</math> <math>\text{Box} - 14 \cap \text{Box} - 14</math></p>
<p><b>3.2 After the positions of comparison 1.2</b></p> <p><math>\text{Box} - 1 \cap \text{Box} - 1</math> <math>\text{Box} - 2 \cap \text{Box} - 2</math> <math>\text{Box} - 3 \cap \text{Box} - 4 \cap \text{Box} - 10 \cap \text{Box} - 15 \cap \text{Box} - 17</math> <math>\text{Box} - 5 \cap \text{Box} - 11</math> <math>\text{Box} - 6 \cap \text{Box} - 1 \cap \text{Box} - 5</math> <math>\text{Box} - 2 \cap \text{Box} - 2</math> <math>\text{Box} - 3 \cap \text{Box} - 3</math> <math>\text{Box} - 4 \cap \text{Box} - 4</math> <math>\text{Box} - 6 \cap \text{Box} - 6</math> <math>\text{Box} - 7 \cap \text{Box} - 7</math> <math>\text{Box} - 8 \cap \text{Box} - 8</math> <math>\text{Box} - 9 \cap \text{Box} - 9</math> <math>\text{Box} - 12 \cap \text{Box} - 12</math> <math>\text{Box} - 13 \cap \text{Box} - 13</math> <math>\text{Box} - 14 \cap \text{Box} - 14</math> <math>\text{Box} - 16 \cap \text{Box} - 16</math></p>
<p><b>3.3. After the position of comparison 2.1</b></p> <p><math>\text{Box} - 1 \cap \text{Box} - 1</math> <math>\text{Box} - 2 \cap \text{Box} - 2</math> <math>\text{Box} - 3 \cap \text{Box} - 3 \cap \text{Box} - 8 \cap \text{Box} - 9 \cap \text{Box} - 10 \cap \text{Box} - 11 \cap \text{Box} - 15 \cap \text{Box} - 16 \cap \text{Box} - 17</math> <math>\text{Box} - 4 \cap \text{Box} - 4</math> <math>\text{Box} - 5 \cap \text{Box} - 5</math> <math>\text{Box} - 6 \cap \text{Box} - 6 \cap \text{Box} - 1 \cap \text{Box} - 5 \cap \text{Box} - 6</math> <math>\text{Box} - 2 \cap \text{Box} - 2</math> <math>\text{Box} - 3 \cap \text{Box} - 3</math> <math>\text{Box} - 4 \cap \text{Box} - 4</math> <math>\text{Box} - 7 \cap \text{Box} - 7</math> <math>\text{Box} - 12 \cap \text{Box} - 12</math> <math>\text{Box} - 13 \cap \text{Box} - 13</math> <math>\text{Box} - 14 \cap \text{Box} - 14</math></p>
<p><b>3.4. After the position of comparison 2.2</b></p> <p><math>\text{Box} - 1 \cap \text{Box} - 1</math> <math>\text{Box} - 2 \cap \text{Box} - 2</math> <math>\text{Box} - 3 \cap \text{Box} - 3</math> <math>\text{Box} - 4 \cap \text{Box} - 4</math> <math>\text{Box} - 5 \cap \text{Box} - 5</math> <math>\text{Box} - 6 \cap \text{Box} - 1</math> <math>\text{Box} - 2 \cap \text{Box} - 2</math> <math>\text{Box} - 3 \cap \text{Box} - 3</math> <math>\text{Box} - 4 \cap \text{Box} - 4</math> <math>\text{Box} - 5 \cap \text{Box} - 5</math> <math>\text{Box} - 7 \cap \text{Box} - 7</math> <math>\text{Box} - 12 \cap \text{Box} - 12</math> <math>\text{Box} - 13 \cap \text{Box} - 13</math> <math>\text{Box} - 14 \cap \text{Box} - 14</math> <math>\text{Box} - 15 \cap \text{Box} - 15</math> <math>\text{Box} - 16 \cap \text{Box} - 16</math> <math>\text{Box} - 17 \cap \text{Box} - 17</math></p>
<p><b>4. The general conclusion</b></p> <p><math>\text{Box} - 6</math> (Ukrainian) <math>\cap</math> <math>\text{Box} - 1</math> (English) (a square or rectangular container with stiff sides and</p>



sometimes a lid).

Бокс – 1 ⇔ Бокс – 2 ⇔ Бокс – 3 ⇔ Бокс – 4 ⇔ Бокс – 5 ⇔ Вох – 2 ⇔ Вох – 3 ⇔ Вох – 4 ⇔ Вох – 5 ⇔ Вох – 6 ⇔ Вох – 7 ⇔ Вох – 8 ⇔ Вох – 9 ⇔ Вох – 10 ⇔ Вох – 11 ⇔ Вох – 12 ⇔ Вох – 13 ⇔ Вох – 14 ⇔ Вох – 15 ⇔ Вох – 16 ⇔ Вох – 17

**Table 4. Authentic transformation of interlingual lexical homophones.**

<b>Vectors of informational accordance (VIAs) (↔)</b>		
<b>From English to Ukrainian language</b>		
Вох – 1	↔	Бокс – 6
Вох – 2	↔	Вантажний контейнер (з відкритим верхом)
Вох – 3	↔	Електронне обладнання
Вох – 4	↔	Електронне обладнання
Вох – 5	↔	Труна, домовина
Вох – 6	↔	Вміст
Вох – 7	↔	Одиниця вимірювання
Вох – 8	↔	Майданчик
Вох – 9	↔	Хати́на, будиночок, котедж
Вох – 10	↔	Ложа, трибуна (в театре)
Вох – 11	↔	Ві́кно
Вох – 12	↔	Пошто́ва скринька
Вох – 13	↔	Пальма кавка́зька, самшит
Вох – 14	↔	Уда́р
Вох – 15	↔	Каби́на водія
Вох – 16	↔	Прист́рій для поділу води на канали
Вох – 17	↔	Ста́йня
<b>From Ukrainian to English language</b>		
Бокс – 1	↔	Boxing
Бокс – 2	↔	Boxer cut
Бокс – 3	↔	Ward
Бокс – 4	↔	Laboratory
Бокс – 5	↔	Parking place

The present study shows that despite the presence of correlation by the identical acoustic codes interlingual lexical homophones can have the information content distinctions. The analyzed AGCs "Box" (English) (17 meanings) and "Бокс" (Ukrainian) (6 meanings) have only one informational correlation in the meaning "a square or rectangular container with stiff sides and sometimes a lid." For all other meanings, it is necessary to look for other AGCs in languages to create authentic cross-language encoding and decoding information.

The use of EFE technology is useful together with the project method in teaching and learning the interlingual homophone vocabulary of foreign languages in the process of distance learning.

For EFE for lexical homophones for the case of the interlingual lexical homophone creating students use methods of cognition of the unknown essence of being:

- analytical;
- consciously-comparative;
- consciously practical;
- translation;
- problematic;
- design.

The described approach involves the main processes of cognition by consciousness:

- reflection, a universal property of matter, which consists in reproducing the features, properties, and relations of the displayed. The reflection is a more general category than the concept of formation. It is a necessity for the process of information formation;
- the formation of information, the formation of content structures of the necessary quality and quantity of information through reflections and thinking;
- the formation of a meaningful structure, due to the need for the existence of AGC.

The most effective is the participation of students during video conferences / online conferences (from my practical experience, Google Meet is very useful). It will increase students' strategic competence and the skills to improve communication and avoid mistakes.

Participations in video conferences / online conferences create for listeners the feeling of being in the same room with the speaker, improve and increase the efficiency of perception, increase the number of possible options for the development of dialogues to achieve a common communicative aim, develop and improve skills and abilities to explain and express the necessary information in various ways, learn to listen to their university classmates, conduct conversations and discussions in a group, expand the competence of participants' communication based on their own experience and through communication with other participants. Visual information helps to focus attention, improves perception, and keeps students' attention for a long time.

As a result, it eliminates the language barrier, and a secondary linguistic personality is formed.

## **7. Conclusions**

The present study shows the advantages of the proposed technology based on EFE for a lexical homophone for the case of the interlingual lexical homophone, namely:

- allows unambiguously to determine the essence of analyzed information and avoid mistakes;
- determines VIAs of interlingual lexical homophone meanings;
- allows authentic encoding and decoding of the semantic relationships between interlingual lexical homophones;
- increases the capacity and the quality of memorization of information;
- prevents interlingual interference and mental conflicts in the "pictures of the worlds" of communicants;
- does not depend on LPS and LSS as it is based on the psychophysiological features of the formation and storage of information in the human brain;
- could be used in the theory and practice of translation, teaching and learning foreign languages in the standard, distance, and online teaching and learning processes.

The use of the proposed technology contributes to the formation of a secondary linguistic personality that is the main aim of foreign language learning, avoiding the false translation dictated either by the similarity of acoustic form and preventing errors arising from false analogy with existing AGCs in LPS and LSS.

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