Linguocognitive Conflict of Digital and Pre-Digital Thinking in Online Educational Discourse During the Pandemic: Social Danger or a New Challenge?

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Abstract. The authors analyze the problems of online educational discourse in the context of the linguocognitive conflict of the «pre-digital» and «digital generations» in connection with mediated communication during the COVID-19 pandemic. Today, society has actualized hidden socio-cultural conflicts that have increased the disharmonious influence on the implementation of online educational discourse in a situation of prolonged self-isolation and lock downs. The authors distinguish a separate subtype of educational discourse-online educational discourse, it is the result of an interactive process of interaction of subjects in an indirect educational space of an online format, within which intercultural, interpersonal communication, a diverse verbal-paraverbal exchange of information using digital means of communication is carried out. At the same time, the possibilities of the language of the participants of educational communication are evaluated in the context of expressing their communicative intentions. The situation of the pandemic has updated the features in the decoding of information in the «digital generation». The specifics of the speech-thinking activity of the «digital generation» are a pseudo-psychopatholinguistic phenomenon, which requires new approaches to online educational discourse in the formation of competencies. The new situation requires the allocation of other parameters for the psychodiagnostics of norm and pathology in the work of the language and brain. Humanity is looking for compromises for the full-fledged formation of various competencies based on language, using online educational dialogue as optimal in terms of survival during a pandemic. The specifics of the language behavior of the «digital generation» reflect a different type
of thinking than that of the representatives of the «pre-digital generation». The article reflects the results of an international study on the formation of students’ communicative competence using online educational discourse during the COVID-19 pandemic.

**Keywords:** language behavior, a pseudopathopsycholinguistic phenomenon, communicative competence, «digital generation», Russians, Australians, Greeks, Kazakhs, online-educational discourse.

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Research area: psycholinguistics.


Лингвокогнитивный конфликт цифрового и доцифрового мышления в онлайн-учебном дискурсе в период пандемии: социальная опасность или новый вызов?

И.С. Карабулатова, А.К. Аипова, C. М. Бутт, С. Амириду

Аннотация. Авторы анализируют проблемы онлайн-учебного дискурса в условиях лингвокогнитивного конфликта «доцифрового» и «цифрового поколений» в связи с опосредованной коммуникацией в период пандемии COVID-19. Сегодня общество актуализировало скрытые социокультурные конфликты, которые усилили дисгармоничное влияние на реализацию онлайн-учебного дискурса в ситуации длительной самоизоляции и локдаунов. Авторы выделяют отдельный подтип учебного дискурса – онлайн-учебный дискурс, он есть результат интерактивного процесса взаимодействия субъектов в опосредованном учебном пространстве онлайн-формата, в рамках которого осуществляется межкультурная, межличностная коммуникация,
Introduction

Modern globalization, pandemic restrictions and intensification of migration processes have forced the world society to plunge into the problems of digital humanities, intercultural communication, ethnopsycholinguistics, ethnopedagogy, linguo-regional studies, linguodidactics, linguoculturology (Zamaletdinov et al., 2014). However, the situation of the COVID-19 pandemic (Druzhinin, Molchanova, 2021) has redistributed the emphasis in the educational and academic discourse (Karasik, 2016; Dronov, 2020), making the online learning format as the only possible, although controversial in methodological terms (Ukrainets, 2020). At the same time, we cannot but note the fact that the educational discourse itself in its online form is also undergoing a transformation in the selection of material, in its presentation and in communication, which is due to a greater extent to the transformation in the speech-thinking processes and cognitive operations of the language personality of the «digital generation».

The new situation in the global educational space has revealed the unpreparedness of the education system for the new realities and conditions of operating with information by «digital natives», revealing gaps in the linguistic and didactic aspects of psycholinguistics in the context of understanding the processes of interaction between language and thinking, both in the context of encoding and decoding information in natural language and in the language of neural networks.

Traditionally, the educational discourse focuses the audience’s attention on the formation of ethnic and socio-cultural identity among representatives of the state-forming ethnic group. This idea began to be promoted through an ethno-oriented educational discourse in the post-Soviet world (Aipova et al., 2021; Belbotayev, Bulanbayeva, 2007; Petukh, 2004; Shabambaeva et al., 2021), as a guarantee of the geopolitical stability of the state. At the same time, political scientists and sociologists emphasize that these countries are experiencing a power-
ful migration trauma burden and the consequences of ethnic trauma due to a sense of infringement of national dignity and ignoring the efforts of the Soviet Union in terms of the formation of national elites in the Soviet republics (Ryazantsev et al., 2015; Osipov et al., 2016), without taking into account the transformations that occurred under the influence of the strategies of forming a person of communism. This inevitably led to cognitive distortions of various forms of identity (Lin, et al., 2021).

This attitude could not but affect the approaches to the educational discourse of intercultural communication in the post-Soviet and post-socialist space. However, in our opinion, it reflects an outdated paradigm of linguodidactics, focused primarily on the expert teaching staff of the generation of the pre-digital era with a characteristic linear type of thinking.

At the same time, we draw attention to the existing positive experience of forming the content of the educational discourse of intercultural communication in countries with a stable migration load and a higher level of proficiency in English as the language of modern science (Greece, Australia), despite the changes that occur with the speech-thinking processes of students when studying in an online format.

The choice of countries for this study (Australia, Greece, Kazakhstan, Russia) is due to historical ties and changes that occur in the process of language acquisition in the context of globalization and migration during the formation of intercultural communicative competence in universities based on the material of Russian, English, Greek and Kazakh languages.

Modern science pays priority attention to the study of English as the language of modern intercultural communication and scientific interaction, so the popularity of teaching English in different countries is significant, but the level of English proficiency shows a big difference across countries. Thus, in 2019, according to the English Proficiency Index, Kazakhstan ranked 93rd out of 100 in terms of the level of English language proficiency of the population (Informburo.kz, 5.11.2019, electronic resource), having advanced to the 92nd place by the end of 2020. Greece occupies the 21st position in the same study, Russia-41st place (Ranking of countries by the level of English language proficiency, 2020, Electronic resource).

A special situation relates to Australia. On the one hand, the country was founded as a British colony with the involvement of aborigines. On the other hand, the mass filling of the country at the expense of assorted criminals and their family members transformed the originally British version of the English language, forming the Australian English language with an abundance of embedded jargon and the specifics of pronunciation (Agapova, Gorbunova, 2014; Baker Sidney, 1945).

The colonial aspirations of Great Britain (Sagimbayev, 2017) could not but affect the promotion of British English, which served and continues to serve as a socio-political marker, since native speakers of British English are positioned as carriers of an elite linguistic culture as opposed to uneducated social strata of the population both in the British Empire itself and abroad. Thus, the very possession of the British version of the English language becomes one of the conditions for information and psychological strategies of Great Britain in hybrid geopolitical wars (Tagiltseva, 2018). We see the same demonstration of the superiority of the British English language in global geopolitics in relation to the American English language (it is built on the principle of accessibility and comprehensibility to everyone) and to the Australian English language (it was built based on the principles of the argot of the thieves’ world). In this regard, we must consider these initial data when diving into the educational discourse based on the English language, since they also demonstrate the imbalance of attitude to the norms of intercultural communication in different English-speaking countries and countries where the English language is being comprehensively promoted.

Russian language online educational discourse also reveals difficulties, since the selection of material for studying Russian as a foreign language has not yet been regulated at the state level for migrants from the post-Soviet world and non-CIS countries (Khudorenko, 2020). As a result, we see a narrowing of the area of use of the Russian language. Thus, in
Kazakhstan, the priorities in the language policy have changed in the direction of strengthening the position of the Kazakh language, strengthening the English language, promoting the Chinese language with the weakening of the role of the Russian language due to the 4-language promoted and implemented in the country (Sultan, Sabirova, 2018).

Therefore, we can talk about social stigmatization in education (Pashkovsky, 2017) during the period of pandemic restrictions due to:
1) subjective perception of social isolation;
2) the priority of online educational discourse due to the pandemic;
3) students’ experiences of their own ethno-linguistic and confessional affiliation;
4) transformations of speech-thinking cognitive abilities in the conditions of changed learning formats;
5) experiencing the consequences of COVID-19 for health, etc.

Additional pressure is exerted by the information policy of countries on mandatory vaccination of the population, which also acquires a mythologized aura of conspiracy, transforming the attitude to the educational process in the conditions of a pandemic (Galle et al., 2021). Sociologists emphasize that social stigmatization, regardless of the quality of the assessment of the perception of an event, phenomenon, or fact, actualizes the state of discomfort in individuals, forming appropriate behavioral and communicative-verbal stereotypes, which only increases the distance between a person and society (Pashkovsky, 2017).

The natural increased interest in the topic of the pandemic also stigmatizes all the processes of society’s life activity that are somehow related to COVID-19, including in the educational discourse.

In addition, particular issues of local geopolitics are superimposed on the global problems of contrasting generations of the pre-digital and digital eras, which changes not only the standard of education, but also the very understanding of the speech-thinking processes of modern man. At the same time, the speed of information acquisition and the level of perception of digital reality can also become a social stigma.

It should be noted that the dominance of the presentation of information through digital communication increases interest in foreign languages, linguoculturology, intercultural communication and linguistic and country studies.

In this regard, the analyzed countries are of interest from the point of view of mastering the communicative norms and standards of intercultural communication, taking into account the ethnic and socio-cultural specifics of the country. For example, Australia and Greece are known for their democratic foundations. Australia is a country of migrants with a very mobile mentality and a desire for equality, which is manifested in linguistic and pedagogical trends and speech research (Edwards, 2018). Russia, Kazakhstan, and Greece are quite conservative in terms of the stability of traditions and the degree of proficiency in English as the language of international communication (Galskova, Gez, 2009; Solontsova, 2015).

However, all the analyzed countries demonstrate a steady interest and an increase in demand for specialists who speak English, which is also provoked by the dominant position of the English language in the field of scientific knowledge, and above all, technical scientific knowledge.

Australian experts are concerned about the decline in the growth of educational migrants in the country due to the pandemic, emphasizing the importance of immersion in the realities of linguistic culture beyond online learning (Hurley, 2020). When analyzing the situation in Greek universities, we consider the specifics of the communicative competence of Greek students aimed at learning Russian, since Russia was and remains in the sphere of Greek interests due to its historical and confessional community, close socio-economic and cultural ties (Amiridou, 2017; Davtyan-lokamidi, 2015). The educational discourse of the Russian language in the Greek audience has its own long history and traditions, which are based on the oral linear model of teaching in direct contact «teacher + student», which has developed since antiquity (Polychronidou, 2013), which transformed the format of communication in online educational discourse. At
At the Thracian Democritus University (Komotini, Greece), the sample consisted of...
80 Greek students studying Russian. At the Toraighyrov Kazakhstan University (Pavlodar, Kazakhstan), the sample consisted of 156 people studying the Kazakh language. The sample of students studying English as a non-native language in Australia was 144 people. The control group of students studying at the RUDN was 20 people. The team of authors conducted an empirical study in 2019–2021. We conducted a secondary comparative analysis of the data obtained by other researchers on the specifics of educational communication activities and ways of assimilating the materials of online educational discourse during the pandemic and beyond. Online educational discourse allows you to quickly fix the mistakes made by students, revealing hidden gaps in students’ knowledge when learning another language.

The modern paradigm of the educational language discourse is aimed at forming a transcultural identity of a global type among students (Ebzeeva et al., 2018), thanks to which the norms and socio-cultural stereotypes of a foreign language are assimilated along with the ethno-socio-cultural complex of the rules of the native linguoculture. In this regard, we took as a hypothesis the statement about the specificity of the formation of linguistic and cultural consciousness among students-future teachers in the field of linguistics. At the same time, we took two important points: 1) the active use of integrative methods contributes to the harmonious development of multiculturalism and transcultural language personality among recipient students; 2) the methods of the linguoculturological approach are a priority in the online educational discourse for the formation of a harmonious transcultural language personality.

In this regard, we conducted ascertaining and forming experiments to measure changes in the ethno-linguistic behavior of students during the formation of linguistic and cultural communicative competencies. However, these experiments also revealed new results in changing cognitive functions in thinking among representatives of the pre-digital and digital eras.

In addition, we focused on the use of such methods as traditional theoretical analysis of scientific and methodological literature with a generalization of modern innovative methodological approaches to the development of linguistic and cultural communicative competence of students in the aspect of discursive practices, linguistic modeling of secondary language personality, discourse analysis, the principle of integrated subject-language learning and the principle of continuous learning in the context of the COVID-19 coronavirus pandemic.

Work on communication studies, ethnological pedagogy, linguistics, language teaching, psycholinguistics laid the theoretical foundation of the research work (Aipova, etc., 2021; Gervilla, Garcia, 2020; Grekova, 2019; Mattheoudakis, Alexiou, 2009; Petuch, 2004).

The focus was on the analysis of studies related to the development of a multicultural educational environment in the modern world linguodidactics (Peng and Wu, 2016; Rutskaya et al., 2021, etc.), especially considered works aimed at analyzing the development of language and communication abilities in conditions of isolation, stress, migration, etc. (Semke, Bohan, 2008).

Results

The results of the online educational discourse of the pandemic period (Agranovich et al., 2021; Ukrainets, 2020) will still require their scientific understanding in many aspects, revealing new facets of the implementation of educational discourse, which made it possible to designate this type of discourse as an «inverted» educational resource (Barkhatova et al., 2021).

An international team of authors conducted observations of student groups who are on distance learning to understand and refine the algorithm of learning another language in the conditions of the transition of a linear strategy of educational discourse to a nonlinear strategy of online educational discourse. Our observations have allowed us to understand new universals in the thinking of the modern digital generation, which will illustrate the difference between the generations of the pre-digital and digital era.
As a result, the online educational discourse makes it necessary to compress the educational material to microportions due to the use of additional digital educational formats of mobile applications, social networks and other new training services that use fast switching and multitasking of mental operations of a modern native speaker (Karabulatova, Ldoko- va, Bankozhitenko, Lazareva, 2021).

Today, psychologists talk about «digital aborigines», «digital generation» (Greкова, 2019; Alyokhin, Grekova, 2018), for whom it is necessary to develop new standards of psychdiagnostics, linguodidactics to differentiate them from the so-called pathopsycholinguistic (Pashkovsky, Piotrovskaya, Piotrovsky, 2015) and pseudo-pathopsycholinguistical phenomena of thinking in a digital environment (Gre- kova, 2019).

The complexity of the online educational discourse is since the teacher, as the author and creator of the course, is uncomfortable because of the difference in the assessments of the surrounding world with his students, who are representatives of digital reality and process incoming information differently.

As a rule, teachers using the traditional linear model of educational discourse find that the overwhelming number of students belong either to the ignoring part of the audience or to the passive part of the group, which is interpreted as an excessively negative influence of the Internet (Zaretskaya, 2017). The results of the observation are shown in Fig. 1.

The modern generation of teachers belongs to the generation of the pre-digital era, whose thinking is based on the generally accepted hierarchy of generic characteristics on the foundation of anthropocentrism (Kholodnaya, 2002). Indeed, the reference criterion for decoding information in the perception of the pre-digital generation in the humanities is an anthropocentric approach, in which the existing traditional «hierarchy of generic / specific features with a certain measure of the concrete/ abstract, like a filter, was superimposed on all concepts/phenomena of the surrounding world» (Grekova, 2019: 35).

However, modern students who are representatives of the «digital generation» perceive this approach as boring, not interesting, and not effective, because they otherwise build a system of selecting the significant and insignificant when evaluating incoming information. Based on this, they demonstrate passive and ignoring participation in the online educational discourse.

The observation method allowed us to establish that during classroom classes only 30 % of students actively participate in the educational process, while 50 % of students demonstrate passivity in communication. These students listen to the teacher, but are silent, slowly perform the tasks that are offered to them, and 20 % ignore and behave distantly. Groups of passives and ignoring students do not just go about their business during the lesson, but treat classes as a hypertext space under the influence of the organizational structure of the Network (this includes: listening to the lecturer, correspondence with other gadgets, simultaneous reading and viewing materials on the topic of...)

![Students in the process of communication](image-url)

Fig. 1. Cumulative results of the method of monitoring the process of communication of students
the lesson and/or on the topic of another academic discipline, parallel preparation of a presentation for an educational/ scientific report, etc.).

At the same time, teachers evaluate the cognitive abilities of «digital students», focusing on the departure from the usual standard of response in the direction of strengthening pseudopsychopathology (Carr, 2012).

For example, the slip technique characterizes a change in a purposeful, logically conditioned train of thought, in which there is a deviation from the semantic connecting line within sentences, both with a change in the topic of the utterance and without a change in the topic of the utterance. The slip in the speech of the «digital generation» is due to the redundancy of the presence of hyperlinks in the text space. The so-called jumps of thoughts, the discontinuity of the message and the incompleteness of the utterance are also associated with this phenomenon.

Modern scientists pay attention to the growth of changes in the linguocognitive communicative matrix of the youth of the digital world, drawing parallels with pathopsycholinguistic processes (Sultanova, Ivanova, 2017) and the transformative nature of clip thinking of the modern young generation for human civilization (Karr, 2012; Barkhatova et al., 2021). We believe that it is more correct to talk about multitasking and switchability in connection with entropic processes in human civilization in terms of the priority of the digital data flow. Under the linguocognitive communicative matrix, we understand a set of verbal and paraverbal stable signs used in communication.

The modern «digital generation» clearly regulates the priority principles of selecting information for use in communication, shortening words, phrases, sentences, etc., since the thinking of students of the «digital generation» is strikingly different from the thinking of teachers, experts who were formed in the pre-

<table>
<thead>
<tr>
<th>№</th>
<th>The ratio of signs and values</th>
<th>Respondents’ responses by country (%)</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Greece</td>
</tr>
<tr>
<td>1</td>
<td>Narrowing the lexical meaning</td>
<td>25 %</td>
</tr>
<tr>
<td>2</td>
<td>Excessive detail</td>
<td>28 %</td>
</tr>
<tr>
<td>3</td>
<td>Excessive abstraction and generalization</td>
<td>27,95 %</td>
</tr>
<tr>
<td>4</td>
<td>Priority of abstract vocabulary</td>
<td>30,24 %</td>
</tr>
<tr>
<td>5</td>
<td>Neologisms and new meanings</td>
<td>37,7 %</td>
</tr>
<tr>
<td>6</td>
<td>Superstructure of signs over other signs, the use of graphemes</td>
<td>42 %</td>
</tr>
<tr>
<td>7</td>
<td>Combining different characters</td>
<td>16,7 %</td>
</tr>
<tr>
<td>8</td>
<td>Excessive concretization of judgments</td>
<td>29,3 %</td>
</tr>
<tr>
<td>9</td>
<td>Pretentiousness of judgments</td>
<td>31,3 %</td>
</tr>
<tr>
<td>10</td>
<td>Paradoxical</td>
<td>41,1 %</td>
</tr>
<tr>
<td>11</td>
<td>Slipping off</td>
<td>27,3 %</td>
</tr>
<tr>
<td>12</td>
<td>Alogisms</td>
<td>14,3 %</td>
</tr>
<tr>
<td>13</td>
<td>Formalisms</td>
<td>9,87 %</td>
</tr>
<tr>
<td>14</td>
<td>Superinclusions</td>
<td>7,35 %</td>
</tr>
<tr>
<td>15</td>
<td>Updating hidden values</td>
<td>14,51 %</td>
</tr>
<tr>
<td>16</td>
<td>Inadequacy</td>
<td>27,81 %</td>
</tr>
<tr>
<td>17</td>
<td>Reasonableness</td>
<td>29,31 %</td>
</tr>
<tr>
<td>18</td>
<td>Expressive syntax</td>
<td>31,81 %</td>
</tr>
</tbody>
</table>
In the digital era and perceive such a model as flawed, pathological, and non-normative (Carr, 2012). As a result, we are dealing with the pseudo-pathology of speech-thinking processes in the «digital generation» (Grekova, 2019).

At the same time, we observe a rather frivolous attitude to language rules and standards, spelling, orthoepy, grammar, since one of the most important dominants in the behavioral matrix of the «digital generation» is the attitude to time.

As we can see, speed and the desire to succeed become the leading motivators in the linguocognitive communicative matrix of «digital students», which inevitably entails a «train» of various mistakes. Thus, lexical, and grammatical errors occur in 83% of cases when studying Russian in a Greek audience in an online educational discourse. Russian «digital students» studying the Kazakh language in Kazakhstan make 54% of such mistakes when using online educational discourse. Students who have arrived in Australia to study English make fewer mistakes (34%), which is due to the preliminary in-depth study of the English language and the selection of potential students by passing international-level English language proficiency exams. Russian language learners, a control group of educational migrants in Russia, also show a high percentage of such errors, which is associated with the complexity of the initial study of the Russian language outside the language environment.

At the same time, a group of Russian-speaking students of Russia and Kazakhstan, specializing in English, shows 49% of errors of this kind. At the same time, the conditions of the pandemic have made the training format more stereotypical and schematic, without the possibility of full immersion in the language environment of the studied country, which also exacerbates the difference in the perception and analysis of information from the point of view of «digital» and «pre-digital» generations.

In addition, the digital generation is characterized by an increased level of intactness in real communication with a predominance of involvement in communication in digital reality, and therefore written speech, rather than oral speech, becomes the leading method of communication. At the same time, written speech increasingly acquires the features of oral speech among representatives of the «digital generation» (the so-called «expressive syntax» – I. K.). Does this mean that the student’s communicative competencies are not formed? Or are we dealing with the evolution of the communicative competence of the digital generation of students?

The number of errors when reading in different groups

Fig. 2. The number of errors when reading the experimental and control groups (CG -control group)
The situation of the behavioral matrix of modern students is illustrated in Figure 3. Types of communication: The percentage ratio of the level of formation of the development of communicative competence by types of communication among the digital generation of students.

Students of the «digital generation» demonstrate the priority of the organization of thinking in the aspect of visualizing its form, which makes it possible to correlate the organization of thinking with the Network rather than with a linear hierarchy, reflecting the processes of «merging» natural speech-thinking activity with the artificial environment of the Internet.

The involvement of students of the «digital generation» in communication gives an understanding of the effectiveness of the main five types of communicative situations (Table 2).

At the same time, the speed of information processing in the «digital generation» increases significantly. Although 80 % of students in the online educational discourse are intact, but 60 % of them demonstrate a high level of formation of communicative competence, 30 % have an average level and 10 % have a low level. In addition, we believe that it is necessary to pay close attention to the following types of situations 2 and 3, and not to lose sight of types 4 and 5.

We consider the increase in the number of changes in the linguocognitive and behavioral-communicative matrix of the «digital generation» as an illustration of the invariant of the norm of speech-thinking processes.

The new type of thinking is characterized by plasticity, versatility, volume, polyvariteness. At the same time, the boundary between the sign and the meaning along the line «abstractness-concreteness» is very ambiguous and mobile, since the «digital generation» of native speakers perceives signs as

![Types of communication](image)

Fig. 3. Types of communication: The percentage ratio of the level of formation of the development of communicative competence by types of communication among the digital generation of students

<table>
<thead>
<tr>
<th>№</th>
<th>Situation’s</th>
<th>Competent</th>
<th>Dependent’s</th>
<th>Aggressive</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>— situations in which a reaction to the partner’s positive statements is required</td>
<td>32</td>
<td>16</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>— situations in which there should be reactions to negative statements</td>
<td>46</td>
<td>21</td>
<td>26</td>
</tr>
<tr>
<td>3</td>
<td>— situations in which a request is made</td>
<td>52</td>
<td>27</td>
<td>14</td>
</tr>
<tr>
<td>4</td>
<td>— conversation situations</td>
<td>50</td>
<td>37</td>
<td>6</td>
</tr>
<tr>
<td>5</td>
<td>— situations in which empathy is required</td>
<td>52</td>
<td>32</td>
<td>9</td>
</tr>
</tbody>
</table>
the designation of a hyperlink, therefore, the architecture of the speech-thinking space itself is a hypertextual reality, where new signs are built on top of previous signs, but at the same time they (these new signs) string meanings on themselves.

At the same time, there is a need to distinguish with real pathopsycholinguistic phenomena, which were presented in sufficient detail in the fundamental work of the German researcher T. Spoerri (1964), which has not yet lost its theoretical and practical significance in the aspect of understanding speech features in various psychopathological and borderline states with them. For example, he points out that epileptics have a slow, unclear, «viscous» speech, in which perseverations (repetitions), stereotypical construction of constructions, macaronisms, priority use of words in a diminutive form are widely represented. At the same time, schizophrenia is characterized by reasonableness and thoroughness of speech. At the same time, the speech of a schizophrenic is distinguished by semantic discontinuity while preserving the grammatical integrity of the sentence, an abundance of complex syntactic constructions, substitutions of concrete words with abstract and vice versa, author’s neologisms (Spoerri, 1964). If we compare these pathopsycholinguistic characteristics of the speech of people of the pre-digital era with the features of the speech of the youth of the «digital generation» (see Table 1), we will clearly see some parallels.

In this regard, the online educational discourse is forced to reflect a new logic of thinking, therefore it has a different structural composition, and selects the content of the educational material and information content differently. For example, the training material is maximally compressed and visual, but at the same time it is built as a hyperspace with the possibility of including an extended version, in which the role of hyperlinks is performed by various detailed text explanations, as well as additional various multimedia subspaces (audio, video comments, screencasts, additional graphic and photo illustrations, short training videos created by the type of «viral» Tick-Tok clips).

The construction of an online educational discourse corresponds to the expressive syntax that is common in speech manipulation (Kopnina, 2012). As a rule, the syntactic strategies of online educational discourse are inversive: they go from the answer to a specific question, reaching up to general theories in an ascending line. The specifics of the thinking of the «digital generation» determines the strategy of emphasized visibility in the online educational discourse, which actualizes:

a) the preference of tasks for problematization; b) the use of specific examples; c) the priority of exercises- «challenges» that demonstrate to students the need to acquire skills, skills, and experience to solve problems.

Thus, the online educational discourse not only reflects the peculiarities of speech and thinking of students of the «digital generation», but also seeks to include in the linguocognitive metaparadigm of modern communicative-oriented linguodidactics a new emerging balance between language and man as an evolving social object of «digital reality», acting as an interactive linguistic, speech-thinking, and behavioral picture of the world.

Discussion

Modern linguodidactics is faced with the need to search for new scientific and methodological approaches to the development of online educational discourse under restrictions due to the COVID-19 pandemic (Agranovich et al., 2020; Hurley, 2020; Fedunova, 2021; Gallè et al., 2021) and the crisis of the educational system due to the breaking of the worldview paradigms of the pre-digital and digital societ (Ebzeeva et al., 2018; Brodovskaya, 2019; Barkhatova et al., 2021; Milošević, Maksimović, 2020), which affected the functioning of the speech-thinking mechanism of perception itself (Alefirenko et al., 2021; Arsaliev, Andrienko, 2021; Grishina, Abakumova, 2020; Karabulatova, Polivara, 2012).

Most modern training courses in a particular language are focused on the formation of ethno-linguistic and cultural and communicative competencies among students (Arakin, 2016; Petuch, 2004; Polychronidou, 2013; Belbotayev, Bulanbayeva, 2007). The very situa-
tion of online educational discourse requires a high level of emotional intelligence and professional competencies in the context of a pandemic (Aipova et al., 2021; Grishina, Abakumova, 2020; Lugovsky et al., 2018; Nijiati et al., 2020; Fedunova, 2021; Tleuzhanova et al., 2021).

However, the analysis of the proposed ethnopedagogical models of the formation of communicative competence (Krotik, Morhun, 2021; Martazanov et al., 2021) does not include, paradoxically, a linguistic component, implying that the language is included in the default structure. However, such an omission of the linguistic component in the structure of the educational language discourse devalues the language component itself in the linguidoactic process, sending the formation of the understanding of language as a system to the periphery.

At the same time, the model itself usually includes historical and regional components, cultural components (Krotik, Morkhun; 2021; Martazanov et al., 2021), etc. In this regard, we believe that such an implementation of educational discourse, especially online educational discourse, leads to the inevitable destruction of ethnopsycholinguistic norms (Karabulatova, Polivara, 2012), which are the foundation for the formation of all forms of human identity, starting from gender and ending with civil identity. I. S. Karabulatova, Z. V. Polivara introduced the term «ethnopsycholinguistic norm» as an indicator of the conformity of knowledge, understanding and application of the norms of language, culture, psychology, and history of the native and/or foreign language in the speaker’s own speech (Karabulatova, Polivara, 2012).

However, the modern accelerated rhythm of human life «smears» the details of being, including in its verbal representation, focusing only on distinguishing the parameters «important/ unimportant», without observing the norms and rules of language. As a result, the polyphony of the online educational discourse is formed, which reflects the structural shifts in human consciousness under the influence of digital reality (Grishina, Abakumova, 2020; Zvezdina, 2015). We agree with the opinion of researchers that virtual reality triggers the hypertextuality of modern human thinking (Zvezdina, 2015; Grekova, 2019). At the same time, such a complex organization inevitably affects the nature of speech-thinking processes among representatives of the «digital generation», becoming an occasion for scientific discussions about language, thinking and speech, about the possibilities of modern human evolution, about the prognostics of human civilization (Karasik, 2016; Kholodnaya, 2002; Karr, 2012).

In some cases, researchers write about apocalyptic signs of human civilization, which is moving towards dehumanization and death in an entropic dance of agony, fixing its every step in this direction in a communicative virtual space (Kolin, 2011; Vorontsova, 2016).

Modern scientists conclude that the speech of representatives of the «digital generation» reveals quite a lot of parallels with the pathopsychological characteristics of speech in people of the «pre-digital generation» (Alyokhin, Grekova, 2018; Grekova, 2019; Zaretskaya, 2017), which reflects the restructuring of the work of speech-thinking processes in the aspect of hypertextuality and associativity (Katrechko, 2004; Luchinkina, 2016).

Apparently, all this reflects the fact that the pace of modern life has surpassed the rate of generational change, and the pace of progress has surpassed the speed of evolution of the human brain, transforming the human worldview (Kurzweil, 2005; Emelianenko, 2017; Korotaev et al., 2010). A modern person of digital time operates in his consciousness not with concepts, not logos, but with eidos, emotions, pictures-images (Lysak, Belov, 2013), which allows him to perceive and evaluate information faster, but with a loss of the quality of evaluation.

In other words, we can say that the biological singularity has already occurred, because of which we observe the transition of the thinking algorithm from a linear type to a nonlinear type. The very essence of the singularity of Big History has been discussed by scientists very actively recently in the interpretation of the characteristics and signs of canonical milestones (Kurzweil, 2005; Korotaev, 2018, Nazar-
retyan, 2013; Huebner, 2005), causing an ambiguous reaction in society.

At the same time, researchers point to the growth of autism spectrum disorders in the «digital era» (Khaustov, Shumsky, 2021), demonstrating that the main, dominant disorder leading to the appearance of other speech disorders is the lack of adequate feedback to the internal program from later stages of speech generation. This leads to the disintegration of the program itself, «hanging in the air», to the «blurring» of meanings that are not controlled by the context, the situation, objective, social meanings, which in turn leads to the disintegration of the laws of word choice, etc. (Leontiev et al., 1973; Golenkov, 2008).

This organization of speech-thinking activity increases the gap between the sign and the meaning, which characterizes the modern process of transition to a higher level of abstraction of signs as an illustrative component of the ongoing evolution of human civilization in terms of culture and thinking (Solomonik, 2012).

The effect of online educational discourse is correlated with the polycode impact of modern mass communication (Shehi et al., 2020), which manifests itself «in the totality of the consequences of influence: cognitive (attitudes, ideas, value orientations, «agenda»); affective (feelings of concern and fear, morale, social alienation); behavioral (activation of activity; direction of action)» (Brodovskaya et al., 2019: 233).

The clipping or fragmented thinking of modern youth is positioned in the scientific literature from the point of view of the generation of researchers of the pre-digital era, which is not quite correct (Carr, 2012; Mityagina, Dolgopolova, 2009; Popov, 2016). Apparently, we are dealing with an evolutionary step in the development of human neuropsycholinguistic abilities, which indicates the continued development of humans as a species (Ioileva, 2014; Zagidullina, 2012).

The linguocognitive conflict in the online educational discourse occurs due to the collision of basic concepts in the world pictures of the «pre-digital» and «digital» generations. At the same time, the conflict itself is aggravated due to multiculturalist tendencies that seek to create a unified transnational identity, which is a provocative moment in the context of the crisis of local ethno-cultural and national identities, manifested in long-term interethnic conflicts not only on the world periphery, but also in highly developed countries (Mkrtumova et al., 2016).

An analytical approach to the comparison of extralinguistic and intralinguistic factors requires a special approach in the educational discourse in the era of social changes to form a value picture of the world for the younger generation (Kattsina, Karabulatova, 2020). At the same time, ignoring or suppressing these problems increases the degree of «social schizophrenia» in society, stigmatizing them in the public consciousness (Pashkovsky, 2017).

Unfortunately, most teachers of philology rely on the worldview paradigm of the «pre-digital generation», promoting the principles of ethnooriented teaching, which historically developed in the era of Tsarist Russia and was actively used on the outskirts of the Russian Empire (Degtyarev et al., 2021). However, the lack of ethno-pedagogical communicative competence and the transfer of the template to modern realities among students often play a «cruel joke» with teachers working with foreign students. For example, students who speak Arabic may belong to different peoples and even to different religions (Al-Nofaye, 2020; Dubinina, Kovyrshina, 2008). Chinese students may also belong to different peoples of China with different cultures. Students from Russia may ethnically belong to other ethnic groups, religions and cultures that are strikingly different from Russian culture. As a result, the teacher may get into a situation of «methodological confusion». All this only emphasizes the importance of considering the chronotope in the research of the linguistic cycle, which makes it possible to calculate the probability of transformation of language tiers and language consciousness during periods of tension.

At the same time, the restructuring of thinking in connection with the strengthening of digitalization processes has also exacerbated
the problem of socialization of students in the online educational discourse of the pandemic period (Ukrainian, 2020; Stoijković, 2020). The researchers emphasize the cyclical nature of the occurrence of such situations and their coincidence in the chronotope with periods of social crisis (Kurzweil, 2005; Marinenko et al., 2019; Avdee, 2021; Korotaev et al., 2010), demonstrating the breakdown of the previous value worldview paradigm.

Conclusion

The linguistic and communicative register of online educational discourse acts as a model of speech educational activity, in which the trinity of «student-teacher-Internet space» interacts with their communicative intentions, a certain repertoire of ethno-cultural, linguistic-pedagogical, and pragmatic-communicative markers in combination with other verbal and non-verbal means.

Considering the communicative aspect of the analysis of the online educational discourse of the speech behavior of representatives of the «digital generation», it is necessary to consider the register to which the verbal marker or its accompanying word belongs, in order to distinguish it from psychopathological states and pseudopathopsycholinguistic phenomena of the speech of the «digital generation» (Greková, 2019). Ignoring this important aspect of the transformation of the language organization of the «digital generation» when mastering a language (native / non-native), which tends to keep up with technological processes in speed, while losing the qualitative assessment and decoding of information. This is one of the evolutionary steps of human speech-thinking activity, so experts are extremely cautious about categorical assessments, suggesting that these phenomena of language reduction be designated as pseudo-psychopathological phenomena.

We assume that the next step will be associated not just with increasing the speed of assimilation and transmission of information but will be aimed at a qualitative selection of verbal and non-verbal means of communication that can convey a thought as accurately as possible. In the future, a clearly formulated algorithm of a particular case can help to identify hidden deviations, potential social dangers, preventing various kinds of provocations of ethnic and socio-cultural conflicts, contributing to the formation of multi-aspect communicative competence using machine learning technologies.

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