An Analysis of IELTS Listening Conversations from the Perspective of Violations of Grice’s Cooperative Principle

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Abstract: As a globally recognized English proficiency assessment tool, the IELTS Listening section is crucial for evaluating test-takers’ language comprehension and practical application skills. This study aims to conduct an in-depth analysis of the IELTS Listening conversations from the perspective of Grice’s Cooperative Principle. The study selects 130 questions from the Listening section of IELTS academic authentic practice tests (14-18) from Cambridge Exams Publishing. The results indicate that instances where the Cooperative Principle is violated often imply deeper intentions or information, which can lead to the correct answers to the questions. By analyzing the instances of Cooperative Principle violations in IELTS Listening conversations, this study provides new perspectives and methods for English listening instruction and assessment. Additionally, it offers practical strategies for test-takers to enhance their listening comprehension skills.

Keywords: IELTS Listening, Cooperative Principle, Conversational Implicature.

1. Introduction

In the realm of language learning and assessment, the International English Language Testing System (IELTS) has established itself as a globally recognized benchmark for measuring proficiency in English across four key domains: Listening, Reading, Writing, and Speaking. Among these, the Listening component plays a pivotal role in evaluating a test-taker’s ability to comprehend spoken English in a range of authentic contexts, such as academic lectures, discussions, and everyday conversations. So it requires test-takers to not only understand spoken English but also interpret implied meanings and contextual nuances within conversations.

The analysis of IELTS Listening conversations, therefore, offers valuable insights into the linguistic strategies employed in these exchanges and how they can pose challenges for test-takers. Such an analysis not only enhances our understanding of the complexities involved in language comprehension but also highlights the implicit skills that candidates need to develop to perform well on the test. One theoretical framework that sheds light on the intricacies of communication is Grice’s Cooperative Principle (CP). Proposed by the philosopher H. Paul Grice in the 1960s, the CP posits that for communication to be efficient and successful, speakers and listeners must adhere to a set of conversational maxims that facilitate cooperation and mutual understanding. These maxims encompass four key principles: Quantity, which dictates the provision of the right amount of information; Quality, which requires truthfulness and reliability; Relevance, which ensures the information is pertinent to the discussion; and Manner, which emphasizes clarity and orderliness in expression. Adherence to these maxims is crucial for effective communication and understanding in any dialogue, including those in IELTS Listening tests.

Previous research has predominantly focused on the IELTS test as a whole and has not delved deeply into the pragmatic aspects of language use. However, the dialogues in the IELTS listening section often include violations of the Cooperative Principle, making it essential to analyze them from this perspective. Understanding these violations can provide valuable insights for both IELTS candidates and educators. For candidates, recognizing these violations can improve their ability to deduce correct answers from complex listening passages, ultimately enhancing their listening comprehension skills. For educators, this knowledge can inform teaching strategies, helping to better prepare students for the listening component of the IELTS exam. Furthermore, this research contributes to the theoretical understanding of pragmatic principles in language testing, offering a fresh perspective on dialogue interpretation and comprehension.

Therefore, this study aims to explore the prevalence and functions of CP violations in IELTS Listening materials. It seeks to identify the types of violations that occur frequently and to analyze how these violations affect comprehension and interpretation by test-takers. Furthermore, this study endeavors to provide insights into pedagogical implications for English language teachers and learners, suggesting strategies to enhance students’ ability to recognize and cope with such linguistic phenomena in IELTS Listening exams and beyond.

2. Literature Review

For decades, IELTS, or the International English Language Testing System, has been an internationally recognized standardized test designed to assess the English language proficiency of non-native English speakers. Therefore, it is commonly used for study abroad, immigration, and employment in English-speaking countries. IELTS consists of four main components: listening, reading, writing, and speaking. With the growing number of participants, it is hardly surprising that the analysis of IELTS has attracted considerable attention in recent years.
Much of the work emphasized the influence of IELTS, especially the washback (Alderson & Wall, 1993). Zhang’s (2008) pioneering work suggested that the success achieved by IELTS has made it a reference for English teachers, examination experts, and relevant administrative authorities. Its interactive examination format, innovative question types, and systematic scoring methods have influenced a series of English exams, including College English Test Band 4 (CET-4) and College English Test Band 6 (CET-6), producing positive effects. After that, scholars mentioned the washback of IELTS (e.g., Zhang 2010; Xia 2016; Cai 2017; Yu 2018). Zhang (2010) claimed that in international joint programs, teachers should strengthen the positive washback of the IELTS test on English teaching and weaken the negative washback. Xia’s (2016) argument is the same as Zhang’s (2010), i.e., IELTS generally has a positive effect on the international joint undergraduate program. Both Cai (2017) and Yu (2018) proposed the washback of IELTS on English teaching in China, in hopes of helping students to understand the differences between Chinese and Western languages and cultures and cultivate cross-language and cross-cultural awareness. These studies have demonstrated the positive impact IELTS has had on English language tests in China test and college teachers’ teaching, which threw light on our understanding of the IELTS effect. However, their weakness lies in the apparent lack of analysis of each component in IELTS. In addition, learners don’t realize how to learn IELTS by themselves and totally rely on teachers.

In addition to exploring the washback of IELTS, some scholars have postulated some strategies for learners and teachers. Jiang (2018) argued the three core difficulties in IELTS listening: vocabulary, phonological phenomena, and synonym substitution. Therefore, learners should focus on language, pronunciation, and grammar. Similarly, Shen and Yu (2022) claimed strategies for enhancing students’ English listening and speaking proficiency in three spheres, i.e., consolidating phonetic skills, accumulating background knowledge of language and culture, and diversifying teaching design of classroom activities. By contrast, Afshar et al. (2023) conducted experiments to identify the effects of online self-assessing metacognitive strategies (OSMLS) on IELTS candidates’ listening comprehension. These studies have investigated the strategies for learning IELTS from different perspectives, and they focused on each part of IELTS, which shed light on learners’ understanding of the test. However, they mainly focus on vocabulary, pronunciation, and grammar in listening comprehension, which is semantic, their weakness lies in the apparent lack of analysis of pragmatics in English conversation in the listening part of IELTS.

To sum up, while an increasing number of studies have explored how to teach and learn IELTS, few studies have been conducted on the pragmatic knowledge of IELTS. It is untenable to draw conclusions about strategy only by paying attention to the literal meaning of words and morphemes and without considering the social context of communication in listening comprehension. Moreover, Pragmatics can be usefully defined as the study of how utterances have meanings in situations (Leech, 1983). To fill the above research gap, this present study explores IELTS listening conversations from the perspective of violations of the Cooperative Principle. The cooperative Principle is an important theory in linguistics, proposed by Grice in 1967, which posits that in communicative interactions, people tend to behave in ways that make conversation cooperative and mutually beneficial. There are a few studies that discuss the Violations of the Cooperative Principle in conversations in TV dramas and articles. However, little research has been performed to investigate the Cooperative Principle in test listening materials. Therefore, this study analyzes IELTS listening conversations from the perspective of violations of Grice’s Cooperative Principle, with the aim of providing listening strategies in IELTS from the perspective of pragmatics.

3. Research Methodology

3.1 Research Question

Using the Cooperative Principle as the theoretical framework, this study investigates the conversational implicature of listening conversation materials in IELTS, analyzing strategies for improving understanding of listening conversations. Based on quantitative statistics and qualitative analysis, the conversational implicature of IELTS Listening Conversations is deeply analyzed. To achieve this, the following research questions are formulated:

1) How are violations of Grice’s Cooperative Principle used in listening conversations in IELTS?
2) What strategies can be employed to improve understanding of IELTS listening conversations?

3.2 Theoretical Framework

1) Conversational Implicature

Implicature refers to the meaning that is inferred or implied in a conversation, beyond the literal or explicit meaning of the words used. It involves the speaker conveying additional information or intentions indirectly. What’s more, the philosopher Grice first suggested that in conversation we often convey information beyond that which we say and that this added meaning is inferred and predictable. He referred to this as ‘conversational implicature’. Furthermore, H. P. Grice developed an influential theory to explain and predict conversational implicature and describe how they are understood. The Cooperative Principle and associated maxims play a central role.

2) Cooperative Principle

In order to explain the processes underlying implication, Grice (1975) developed the following maxims:

The Maxim of Quality: The speaker tells the truth or is provable by adequate evidence. This means the speaker should not say what they believe to be false or make statements without sufficient evidence.

The Maxim of Quantity: The speaker is as informative as required. Specifically, this requires the speaker to give just the right amount of information needed for the exchange, ensuring the message is effectively communicated without being overly verbose or too brief.
The Maxim of Relation: The response is relevant to the topic of discussion. This means that in a conversation, all the information provided should have a direct connection to the current topic, avoiding the introduction of irrelevant content to maintain coherence and relevance in the dialogue.

The Maxim of Manner: The speaker avoids ambiguity or obscurity. This means the speaker should make their message clear and understandable, avoiding complex terms or cryptic language, and ensuring the listener can accurately grasp the intended meaning.

3.3 Data Collection

To address the research question, a corpus of IELTS listening conversations will be collected. These conversations will be sourced from IELTS academic authentic practice tests (14–18) from Cambridge Exams Publishing. The corpus will be composed of all listening conversations from different sections and topics to ensure a comprehensive analysis, and each IELTS academic authentic practice test includes 26 multiple choice questions, totally including 130 multiple choice questions. Furthermore, each question has a corresponding conversation, so this study will analyze 130 conversation materials.

3.4 Research Methods

Both quantitative and qualitative methods will be used to analyze the data in this study. Quantitative methods will be employed to gather data and summarize the frequency of violations of the cooperative principle in conversation materials and the frequency of violation of each maxim of the Cooperative Principle in IELTS listening conversation materials. Qualitative methods will be adopted to analyze randomly selected cases.

In terms of quantitative methods, firstly, this study will compile all the listening conversation materials collected from authentic IELTS academic practice tests (14–18) from Cambridge Exams Publishing to form a corpus including 130 conversation materials. After data collection, the conversations will be annotated in accordance with the four maxims of the Cooperative Principle (Maxim of Quality, Quantity, Relation, and Manner). The annotation process will involve identifying and categorizing violations of the CP. After annotation, quantitative methods will be used to summarize the data. This will involve calculating the frequency of violations of the Cooperative Principle and the frequency of violations of each specific maxim. Finally, the study will conduct statistical analyses to determine patterns and trends in the violations. The frequency and types of violations will be presented in charts for clear visualization.

In terms of qualitative methods, From the annotated data, one or two cases will be randomly selected from each maxim of the Cooperative Principle (Quality, Quantity, Relation, and Manner) for in-depth analysis. The qualitative analysis will focus on the context of each violation, how it affects the interaction between speakers, and how it might influence the test-takers’ comprehension and interpretation of the conversation. In addition, implications for IELTS listening teaching and test preparation will be included.

4. Results and Discussion

4.1 Overall Frequency of CP Violations

In the test questions corresponding to the 130 conversations, 22 conversations of CP violations were identified, accounting for 17%. Figure 1 below is a pie chart that visually represents the distribution of CP violations in the analyzed conversations.

![Figure 1: Distribution of CP Violations in IELTS Listening Conversations](image)

4.2 Violation Statistics for Each Maxim

Out of the 130 conversations analyzed, violations of the Cooperative Principle were identified in 22 conversations. Their distribution across the four maxims is summarized as follows:

![Figure 2: Violation Statistics for Each Maxim](image)

It shows that the most frequently violated maxim is the Maxim of Quantity, accounting for 36% of the total violations. This is followed by the Maxim of Manner, which makes up 27% of the violations. The Maxim of Quality makes up 9% of the total violations. The least frequently violated maxim is the Maxim of Relation, representing 5% of the total violations. What’s more, it is also important to note that two maxims are violated in a conversation. The figure shows that 5 conversations simultaneously violate both the Maxim of Manner and the Maxim of Quantity.

4.3 Analysis of Violations of the Maxims

1) Analysis of Violations of the Maxim of Quantity

Two representative cases of violations of the Maxim of
Quantity were examined.

Conversational Analysis:

Case 1:

Conversation:

Jess: Have you drafted your proposal yet?
Tom: Yes, but I haven't handed it in. I need to amend some parts. I've realized the notes from my research are almost all just descriptions, I haven't actually evaluated anything.

Question:

In which way do both Jess and Tom decide to change their proposals?

A by giving a rationale for their action plans
B by being less specific about the outcome
C by adding a video diary presentation
D by providing a timeline and a mind map
E by making their notes more evaluative

In this conversation, Jess and Tom were discussing their draft proposal, as they were working on a project that required a written proposal. The Maxim of Quantity requires that the speaker provides the right amount of information—neither more nor less than what is needed. Jess asked Tom if he had drafted his proposal yet. This was a straightforward, closed-ended question that required a simple "yes" or "no" answer. However, Tom continued to add information by stating he hadn't handed it in yet, he needed to amend some parts, and he had realized that his notes were almost all descriptions without evaluations.

From Tom’s detailed response, it is clear that he needs to make his notes more evaluative, which directly corresponds to option E. In this conversation, Tom provides more information than necessary, indicating a violation of the Maxim of Quantity. This violation helps learners understand that in cases where a speaker provides extra information, the essential answers or clues often lie within these additional details. Therefore, keywords, especially turn or negative words such as "however," "but," "although," "no," and additional explanatory statements should be noted as potential indicators of extra information that might lead to answers.

Case 2:

Conversation:

Jake: But isn't that of less importance? I mean, doesn't the impact of reduced emissions on air pollution have a more significant effect on people's health?
Amy: Certainly, in some cities bike-sharing has made a big contribution to that. And also helped to cut the number of cars on the road significantly.

Question:

Which TWO benefits of city bike-sharing schemes do the students agree are the most important?

A reducing noise pollution
B reducing traffic congestion
C improving air quality
D encouraging health and fitness
E making cycling affordable

In this conversation, Jake's question suggested a concern about the relative importance of the different benefits of bike-sharing schemes. Specifically, Jake was asking about the impact of reduced emissions on air pollution and its significant effect on people's health. The Maxim of Quantity requires that the speaker provides the right amount of information—neither more nor less than what is needed for the conversation. Jake's question was multi-layered, suggesting a focus on reduced emissions and their impact on air quality and health. However, Amy confirmed the impact on air quality by stating that bike-sharing had made a big contribution to that in some cities. In addition, she added that bike-sharing had also significantly cut the number of cars on the road. While Amy's additional information about reducing the number of cars was relevant, it was not explicitly asked for by Jake. Therefore, her response provided more information than was required to directly answer Jake's question.

Therefore, Amy provided more information than necessary to respond to Jake’s question, indicating a violation of the Maxim of Quantity. Jake's question focused on air quality and its health benefits, but Amy added information about traffic congestion, which was more than what Jake's question required. This additional detail, however, helped identify the two most important benefits of bike-sharing schemes, which was option B and C. Therefore, Affirmative words such as "certainly," "also," "yes," and additional explanatory statements should be noted as potential indicators of extra information that might lead to answers.

Case 3:

Conversation:

Chantal: I'm always considering my own clothes but now I can see you should be focusing on your client!
Hugo: She obviously regretted losing the job.
Chantal: Well, as she said, she should have hidden her negative feelings about him, but she didn’t.

Question:

Which mistake did the speaker admit she made in her first job?

A being dishonest to her employer
B paying too much attention to how she looked
C expecting to become well known
D trying to earn a lot of money
E openly disliking her client

In this conversation, Chantal and Hugo were discussing a woman's mistakes in her first job. Chantal reflected on her own experiences and contrasted them with the woman's, highlighting specific errors that had led to the loss of her job.
Case 5:

Conversation:

Chantal: Exactly.
Do you think our secondary-school education should have been more career-focused?
Hugo: Well, we had numerous talks on careers, which was good, but none of them were very inspiring.
They could have asked more people like today’s speaker to talk to us.

Question:

What do Hugo and Chantal criticize about their school careers advice?

A when they received the advice
B how much advice was given
C who gave the advice

In this conversation, Chantal and Hugo discussed whether their secondary school education should have been more focused on careers. Hugo mentioned that although they had had several discussions about careers, they had found them uninspiring. The Maxim of Quality requires that the speaker tells the truth or is provable by adequate evidence. Hugo suggested that the school could have invited speakers similar to the one they had heard that day to enhance the effectiveness of career guidance. This implied that the school may not have fully utilized external expert resources, thereby limiting the practical information and diversity of career perspectives available to students. But in the sentence “They could have asked more people like today’s speaker to talk to us”, Learners may fail to notice the usage of the subjunctive mood, thereby misunderstanding it as “the school has invited speakers like the one on that day,” which in turn violates the quality maxim. Consequently, both learners and teachers should pay particular attention to the application of subjective mood in dialogue.

4) Analysis of Violations of the Maxim of Relation

Case 6:

Conversation:

Tom: So I was looking forward to the Bird Park visit.
Jess: What a let down!
It poured with rain and we hardly saw a single bird.
Much less use than the trip to the Natural History Museum.

Question:

Which part of the introductory stage to their art projects do Jess and Tom agree were useful?

A the Bird Park visit
B the workshop sessions
C the Natural History Museum visit
D the projects done in previous years
E the handouts with research sources

In this conversation, Tom and Jess talked about their expectations and actual experience of the Bird Park visit. Tom mentioned he was looking forward to the trip, but Jess expressed disappointment because the heavy rain prevented them from seeing many birds. The Maxim of Relation requires that the content of the conversation must be relevant to the current topic of discussion and contribute to the development of the conversation. In this conversation, Jess’s comment appeared to express her disappointment with the Bird Park visit, but she did not adequately explain the specific differences between the trip and her expectations. Additionally, she mentioned the trip to the Natural History Museum.
Museum, which somewhat deviated from the current focus of the discussion and did not fully revolve around the Bird Park experience. Therefore, the Maxim of Relation is violated. Therefore, learners and teachers need to be aware that if the speaker suddenly deviates from the original topic, that new topic is most likely the answer to the question.

5) Analysis of Violations of the Maxim of Manner & the Maxim of Quantity

Case 7:

Conversation:

Jeanne: Didn't you want to be a professional athlete when you were at school? Thomas: Yeah – that was my goal, and all my classmates assumed I would achieve it; they thought I was brilliant.

Question:

Which point do Thomas and Jeanne make about Thomas’s sporting activities at school?

A He should have felt more positive about them.
B The training was too challenging for him.
C He could have worked harder at them.
D His parents were disappointed in him.
E His fellow students admired him.

In this conversation, Thomas and Jeanne were discussing Thomas's sporting activities during his school years. Jeanne inquired whether Thomas had ever aspired to become a professional athlete, prompting Thomas to reminisce about his goals and his classmates' expectations and evaluations.

In terms of the Maxim of Quantity, it required that the speaker provided the right amount of information, neither more nor less than what was needed. In this dialogue, Jeanne’s question was a straightforward, closed-ended question that required a simple confirmation. However, Thomas’s response not only confirmed his goal but also added two additional pieces of information. First, all his classmates assumed he would achieve his goal. Second, his classmates thought he was brilliant. Thus, Thomas's response violated the Maxim of Quantity by providing more information than required. Since this conversation violated the Maxim of Quantity and the answer to this question appeared in this dialogue, it can be inferred that when the speaker violates the Maxim of Quantity in the Cooperative Principle, the answer to the question might appear. Learners need to pay attention to keywords such as "yes," "then," "and," "no," etc. These are indicators in the conversation that may suggest a violation of the Cooperative Principle.

Regarding the Maxim of Manner, it required that the speaker avoided ambiguity and was clear and orderly in their communication. Thomas's response, “all my classmates assumed I would achieve it; they thought I was brilliant,” while indicating his classmates’ views, did not specify the basis for these views. This lack of specific details made his response somewhat vague. Furthermore, the additional information about his classmates' opinions could have been more straightforwardly expressed. For example, he could have simply said, "Yes, that was my goal, and my classmates thought I was talented and they admired me." The extra background information, while potentially interesting, introduced unnecessary complexity and reduced the clarity of his response, thereby violating the Maxim of Manner.

4.4 An Interim Summary

Through the analysis of the figure, it is obvious that among the 22 conversations violating the Cooperative Principle, violations of the Maxim of Quantity and the Maxim of Manner are the most prevalent. Violations of the Maxim of Quantity primarily manifest when respondents provide excessive information, exceeding the needs of the questioner. This extraneous information typically appears following affirmative or negative responses. Additionally, responses often contain implied meanings, demonstrated through synonym substitution or the extension of sentence meanings.

In the conversations, violations of the Maxim of Relation are evident when respondents provide information irrelevant to the question posed by the questioner. Such irrelevant information can cause the conversation to deviate from its intended topic, preventing the questioner from obtaining the necessary and specific answer.

Violations of the Maxim of Quality usually manifest through the use of subjunctive mood. This form of violation can render the information provided by the respondent seemingly unrealistic or unsubstantiated, thereby compromising the effectiveness and authenticity of the conversation.

4.5 The Implications of Conversational Implicature Theory for English Listening Learning and Teaching

1) Learning Skills

In the first place, after mastering vocabulary and grammar, students ought to engage in a systematic study of the theories underpinning conversational implicature and the Cooperative Principle. Proficiency in linguistics serves as a facilitator for students, augmenting their ability to comprehensively grasp the nuances embedded in listening materials.

Secondarily, students should consciously forge connections between the Cooperative Principle and the realm of English listening. Derived from the preceding analysis, a salient observation emerges: heightened attention is warranted during practice sessions, particularly in relation to supplemental information which after “yes”, “exactly”. Additionally, the words' nuances and intonation patterns
employed by speakers wield a discernible influence on sentence meanings. Within the trajectory of dialogue, the speaker's modulation of volume and intonation potentially conveys information concerning the speaker's intentions, often manifesting as instances contravening the Quality maxim.

Last but not least, students should endeavor to cultivate an understanding of the cultural backgrounds and language expression conventions distinctive to diverse ethnic groups. Language, serving as a vessel for cultural transmission, boasts discernible representational characteristics. Proficiency in cultural background knowledge emerges as a pivotal determinant influencing students' listening ability, given that many instances of misunderstanding during the listening process stem from disparities inherent in cultural contexts.

2) Teaching Methods

Primarily, Teachers should help students make the connection between cooperative principle and English listening comprehensions. Teachers can systematically categorize and summarize question types within listening materials, methodically fostering students' ability for anticipatory predictions before engaging with auditory content.

Subsequently, Harmer's Balanced Activity Approach underscores the imperative of achieving equilibrium among language input, practice, and communicative output. In the actual processes of listening and speaking in everyday life, these facets coexist, therefore, within language instruction, the integration of the two is essential. Consequently, oral exercises should be consistently incorporated into listening comprehension classes, reinforcing and elevating students' capacity to comprehend implicit meanings in conversations. This practice aids students in establishing connections and inferences within the language during processes of listening and speaking.

Lastly, language serves as a conduit for cultural information. Students may encounter comprehension impediments due to a lack of cultural background knowledge, resulting in instances where students grasp the literal content but struggle to select the correct options. Teachers should strive to provide contextual clues, analyzing specific cultural attributes within the context of the listened language or the speaker's discourse. This approach aims to mitigate students' listening comprehension barriers arising from cultural differences.

To sum up, with the ongoing deepening of reforms in English teaching at Chinese universities, there is an escalating emphasis within the educational sphere on the functional instruction of language. This shift places increased importance on cultivating students' practical English application capabilities and communicative competencies. The foundational principles within pragmatics bear significant guiding relevance for enhancing the pedagogy of English listening comprehension in this evolving educational landscape.

5. Conclusion

This study conducted an in-depth analysis of 130 listening dialogue questions from IELTS academic authentic practice tests (14-18) from Cambridge Exams Publishing, focusing on violations of Grice's Cooperative Principle. Among the 22 instances of Cooperative Principle violations identified, violations of the Quantity and Manner maxims were most prevalent. Respondents often provided excessive information, typically following affirmations or negations, and included implicit meanings through synonym substitutions or extended sentence meanings.

Preliminary research being as limited as it is, the present study still holds value for a number of reasons. First, this study enriches the application of Grice's Cooperative Principle in the field of language testing, revealing the complexity and multilayered nature of conversational implicature within the IELTS listening test. Second, by identifying and understanding violations of the Cooperative Principle in IELTS listening dialogues, candidates can effectively deduce answers to test questions, thereby enhancing accuracy in the listening section. This study introduces new methodologies for English listening instruction, assisting educators in more effectively guiding students to improve their listening comprehension abilities.

However, this study is not without limitations. First, the number of questions was small (N = 130), While this sample was sufficient for the scope of this study, generalizing findings to all IELTS listening tests or other language proficiency exams may require a larger and more diverse sample. Second, While the study suggests practical implications for improving listening comprehension strategies, the direct impact on actual test performance or long-term learning outcomes was not empirically assessed. Future research could broaden the sample size to include multiple versions of IELTS test questions, validating the universality and stability of the violations of the cooperative principle. Conducting empirical research is also necessary to verify the actual improvement in candidates' listening scores following mastery of the Cooperative Principle, thereby further assessing the strategy's effectiveness.

References


