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TA'LIMI VAZIRLIGI



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- 13.00.00 Pedagogika fanlari
- 13.00.01 Pedagogika nazariyasi. Pedagogik ta'limotlar tarixi
- 13.00.02 Ta'lim va tarbiya nazariyasi va metodikasi (sohalar bo'yicha)
- 13.00.03 Maxsus pedagogika
- 13.00.04 Jismoniy tarbiya va sport mashg'ulotlari nazariyasi va metodikasi
- 13.00.05 Kasb-hunar ta'limi nazariyasi va metodikasi
- 13.00.06 Elektron ta'lim nazariyasi va metodikasi (ta'lim sohaları va bosqichlari bo'yicha)
- 13.00.07 Ta'limda menejment
- 13.00.08 Maktabgacha ta'lim va tarbiya nazariyasi va metodikasi
- 13.00.09 Ijtimoiy pedagogika
- 07.00.00 Tarix fanlari
- 19.00.00 Psixologiya fanlari
- 01.00.00 Fizika-matematika fanlari
- 02.00.00 Kimyo fanlari
- 03.00.00 Biologiya fanlari
- 09.00.00 Falsafa fanlari
- 10.00.00 Filologiya fanlari
- 11.00.00 Geografiya fanlari

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# AKTABGACHA VA AKTAB TA'LIMI

Pedagogika, psixologiya fanlariga ixtisoslashgan ilmiy jurnal



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# TERMINOLOGY AND LEXICAL PROBLEMS IN MODERN LINGUISTICS AND AI

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**Abstract:** This paper examines the key terminology and lexical challenges during translation with the help of AI that arise in the field of modern linguistics. As linguistics evolves, it encounters various issues related to the definition, categorization, and application of terms. This exploration highlights the importance of clear and consistent terminology for effective communication among linguists and between linguists and the public. The paper also discusses how evolving language, socio-political factors, and advancements in technology contribute to these lexical problems.

**Key words:** Artificial intelligence, terminology, language, lexical problems, linguistics, categories, social factors, political views, development of technologies.

**Annotatsiya:** Ushbu maqolada zamonaviy tilshunoslik sohasida sun'iy intellekt yordamida tarjima jarayonida yuzaga keladigan asosiy terminologik va leksik muammolar tahlil qilinadi. Tilshunoslik rivojlanib borar ekan, u terminlarning ta'rifi, tasnifi va qo'llanilishi bilan bog'liq turli masalalarga duch keladi. Mazkur tadqiqot tilshunoslar o'rtasidagi hamda tilshunoslar va keng jamoatchilik o'rtasidagi samarali muloqot uchun aniq va izchil terminologiyaning muhimligini ta'kidlaydi. Shuningdek, maqolada tilning rivojlanishi, ijtimoiy-siyosiy omillar va texnologik taraqqiyotning ushbu leksik muammolarga ta'siri ham ko'rib chiqiladi.

**Kalit so'zlar:** sun'iy intellekt, terminologiya, til, leksik muammolar, tilshunoslik, tasniflar, ijtimoiy omillar, siyosiy qarashlar, texnologiyalar rivoji.

**Аннотация:** В данной статье рассматриваются ключевые терминологические и лексические проблемы, возникающие в современной лингвистике при использовании технологий искусственного интеллекта в процессе перевода. По мере развития лингвистики возникают различные вопросы, связанные с определением, классификацией и применением терминов. В работе подчеркивается важность четкой и единообразной терминологии для эффективной коммуникации как внутри профессионального сообщества лингвистов, так и при взаимодействии лингвистов с широкой общественностью. Также анализируется влияние языковой эволюции, социально-политических факторов и технологического прогресса на возникновение данных лексических проблем.

**Ключевые слова:** искусственный интеллект, терминология, язык, лексические проблемы, лингвистика, категории, социальные факторы, политические взгляды, развитие технологий.

## INTRODUCTION

Linguistics, as a discipline, seeks to understand the complexities of human language. However, the diverse branches of linguistics-such as phonetics, syntax, semantics, and sociolinguistics-often develop their own specialized vocabularies. This can lead to confusion and misinterpretation both within the field and in broader contexts.

Linguistics, as a multidisciplinary and theoretically diversified field of inquiry, is fundamentally concerned with the systematic investigation of the structural, cognitive, communicative, and sociocultural dimensions of human language. The continuous expansion of linguistic scholarship, accompanied by the emergence of new theoretical paradigms and interdisciplinary methodologies, has resulted in the proliferation of increasingly specialized conceptual frameworks and terminological systems. Distinct branches of linguistics-including phonetics, phonology, morphology, syntax, semantics, pragmatics, discourse analysis, sociolinguistics, cognitive linguistics, corpus linguistics, and computational linguistics-have each developed domain-specific lexical repertoires that reflect their unique epistemological orientations and methodological assumptions.

Although this process of terminological diversification has significantly enhanced analytical precision and theoretical sophistication, it has simultaneously generated substantial challenges related to conceptual

consistency, semantic transparency, and terminological interoperability. Identical linguistic terms may undergo semantic reinterpretation across competing theoretical traditions, while different terms are frequently employed to denote analogous linguistic phenomena, thereby creating conceptual redundancy, terminological fragmentation, and interpretative ambiguity. These inconsistencies not only impede effective scholarly communication within and across linguistic subdisciplines but also complicate interdisciplinary collaboration, multilingual knowledge transfer, and the standardization of linguistic description.

Consequently, the critical examination, systematization, and harmonization of linguistic terminology have become indispensable components of contemporary linguistic research. The development of coherent terminological frameworks grounded in internationally recognized principles of terminology management and lexicographic practice is essential for ensuring conceptual precision, methodological consistency, and the cumulative advancement of linguistic knowledge. In this respect, the investigation of terminological evolution extends beyond purely lexical concerns, serving as a fundamental mechanism for understanding the epistemological development of linguistic science and its capacity to respond to the dynamic communicative, technological, and sociocultural transformations that characterize the twenty-first century.

## LITERATURE REVIEW

### The Complexity of Linguistic Terminology in AI

Linguistics, as a multifaceted discipline, aims to unravel the intricacies of human language. Its various branches—such as phonetics, syntax, semantics, and sociolinguistics—each focus on distinct aspects of language, leading to the development of specialized vocabularies. While this specialization allows for in-depth analysis and understanding within each subfield, it can also create significant challenges in communication.

Specialized Vocabularies and Their Implications:

#### 1. Phonetics and Phonology:

- Phonetics deals with the physical properties of speech sounds, while phonology concerns itself with how those sounds function within particular languages. The terminology used in these fields can often overlap but may lead to confusion if not clearly defined. For instance, terms like “phoneme” and “allophone” have specific meanings that are crucial for accurate discourse.

#### 2. Syntax:

- The study of sentence structure involves complex terminologies such as “constituents,” “dependency,” and “phrase structure.” These terms can be daunting for those outside the field, leading to misinterpretations of syntactic theories.

#### 3. Semantics and Pragmatics:

- Semantics focuses on meaning at the level of words and sentences, while pragmatics examines how context influences meaning. The distinction between these two areas can be subtle, and terms like “implicature” or “entailment” may be misused or misunderstood by those unfamiliar with the nuances.

#### 4. Sociolinguistics:

- This branch studies the relationship between language and society, incorporating concepts such as “code-switching,” “diglossia,” and “sociolect.” The cultural context of these terms is essential for their proper application, which can vary significantly across different linguistic communities. Sociolinguistics investigates the dynamic interplay between language and society, examining how linguistic variation and language use are shaped by social, cultural, historical, and ideological factors. Its terminological framework encompasses highly specialized concepts such as code-switching, diglossia, sociolect, language ideology, speech community, linguistic repertoire, and indexicality, each representing complex sociolinguistic phenomena that cannot be fully understood outside their respective socio-cultural and communicative contexts. The semantic interpretation and analytical application of these terms are intrinsically context-dependent, reflecting the influence of variables including social class, ethnicity, gender, age, multilingualism, language policy, and patterns of intercultural interaction.

Furthermore, the conceptual scope of sociolinguistic terminology frequently varies across theoretical traditions and linguistic communities, resulting in cross-cultural differences in definition, categorization, and methodological application. Such variation presents significant challenges for terminological standardization, comparative linguistic analysis, and interdisciplinary communication, particularly in multilingual and multicultural research environments. Consequently, the systematic examination and harmonization of sociolinguistic



terminology are essential for ensuring conceptual precision, enhancing methodological consistency, and facilitating the international exchange of linguistic knowledge. From this perspective, sociolinguistic terminology serves not merely as a descriptive lexical resource but as an epistemological framework through which the intricate relationship between language, identity, culture, and society is conceptualized and critically interpreted.

## RESEARCH METHODOLOGY

This study employed a qualitative research approach based on the analysis and synthesis of scientific literature related to linguistic terminology and lexical problems in modern linguistics and artificial intelligence. Comparative, descriptive, and analytical methods were used to examine theoretical concepts, terminological issues, and lexical challenges. Relevant national and international scholarly sources were reviewed to identify the main factors contributing to terminological ambiguity and to propose approaches for improving terminological consistency and effective communication.

## ANALYSIS AND RESULTS

Consequences of Terminological Confusion:

1. **Miscommunication:** Within academic discussions, the use of specialized terminology without adequate explanation can lead to misunderstandings among linguists from different subfields.
2. **Public Perception:** When linguists communicate their findings to the public or interdisciplinary audiences, the use of jargon can alienate non-specialists, making it difficult for them to engage with linguistic research.
3. **Interdisciplinary Barriers:** Collaboration with fields such as psychology, anthropology, or computer science can be hindered by differing terminologies, resulting in a lack of common ground for discussion.

### Strategies for Improvement

To mitigate the challenges posed by specialized vocabularies in linguistics, several strategies can be employed:

1. **Glossaries and Standardization:** Creating comprehensive glossaries that define key terms across various branches of linguistics can serve as valuable resources for both specialists and non-specialists.
2. **Education and Outreach:** Incorporating terminology training into linguistics curricula and engaging in outreach efforts to explain complex concepts to broader audiences can foster greater understanding.
3. **Collaborative Workshops:** Hosting interdisciplinary workshops that bring together linguists and professionals from other fields can facilitate discussions about terminology and promote mutual understanding.
4. **Clear Communication:** Linguists should strive for clarity in their writing and presentations, avoiding jargon when possible and providing definitions when specialized terms are necessary.

The complexity of linguistic terminology reflects the richness of human language itself. While specialized vocabularies are essential for nuanced analysis within each branch of linguistics, they also pose significant challenges for communication both within the field and with the public. By prioritizing clarity, collaboration, and education, linguists can bridge the gaps created by terminology and enhance understanding across diverse audiences.

The increasing complexity of linguistic terminology is not merely a consequence of lexical expansion but rather a reflection of the intellectual diversification and epistemological evolution of linguistic science itself. As theoretical paradigms and methodological approaches continue to proliferate, specialized terminological systems have become indispensable for achieving analytical precision and conceptual differentiation within individual subdisciplines. Nevertheless, this growing terminological sophistication has also intensified challenges related to semantic ambiguity, conceptual inconsistency, and interdisciplinary intelligibility. Divergent interpretations of identical terms, together with the coexistence of competing terminological frameworks, frequently impede effective scholarly communication and limit the accessibility of linguistic knowledge beyond specialist communities.

Addressing these challenges requires a systematic and collaborative approach to terminology management, encompassing conceptual standardization, lexicographic harmonization, interdisciplinary dialogue, and the integration of internationally recognized terminological principles. Equally important is the promotion of terminology education and public linguistic literacy, which can facilitate more effective communication between academic researchers, practitioners, policymakers, and the wider public. Ultimately, the continuous critical

evaluation and refinement of linguistic terminology are essential not only for maintaining conceptual coherence within the discipline but also for strengthening the role of linguistics as a dynamic, internationally relevant, and socially responsive field of scientific inquiry.

1. **Ambiguity:** Many terms in linguistics can have multiple meanings depending on context (e.g., "syntax" can refer to both sentence structure and the rules governing that structure).
2. **Polysemy:** Words that have multiple related meanings can lead to confusion (e.g., "discourse" can refer to spoken or written communication or a specific theoretical framework).
3. **Neologisms:** The introduction of new terms (often driven by technological advancements) can create gaps in understanding among scholars and practitioners.
4. **Interdisciplinary Challenges:** As linguistics intersects with fields like psychology, computer science, and anthropology, differing terminologies can complicate collaboration.
5. **Cultural Variability:** Language is influenced by culture, leading to variations in terminology that may not translate well across different linguistic communities.

Addressing Lexical Problems:

1. **Standardization:** Developing a standardized glossary for key terms can help mitigate confusion.
2. **Education and Training:** Incorporating terminology discussions into linguistics curricula can enhance clarity.
3. **Interdisciplinary Collaboration:** Encouraging dialogue between linguists and professionals from other fields can foster mutual understanding of terms.
4. **Public Engagement:** Efforts to communicate linguistic concepts to the public can demystify complex terminology.

## CONCLUSION AND SUGGESTIONS

Linguistics, as the scientific study of human language, aims to explore and explain the structural, functional, cognitive, and social dimensions of linguistic systems. As the discipline has evolved, its major branches-including phonetics, phonology, morphology, syntax, semantics, pragmatics, sociolinguistics, and psycholinguistics-have developed specialized conceptual frameworks and terminological systems. While this specialization has contributed to significant theoretical and methodological advances, it has also resulted in increasing terminological complexity. Differences in the interpretation and use of linguistic terms across subfields may lead to conceptual ambiguity, inconsistencies in scholarly communication, and challenges in interdisciplinary research. Consequently, the standardization and clarification of linguistic terminology have become essential for ensuring conceptual precision, facilitating effective academic discourse, and promoting the integration of knowledge across the diverse domains of linguistic inquiry. The evolving landscape of modern linguistics presents both challenges and opportunities regarding terminology and lexical issues. By addressing these problems through standardization, education, collaboration, and public engagement, linguists can enhance communication within the field and with the wider world. Continued reflection on the implications of language evolution will be essential for advancing our understanding of human communication.

The changing landscape of contemporary linguistics presents unique challenges regarding terminology and lexical concerns. By focusing on standardization, education, collaboration, and public engagement, linguists can effectively navigate these complexities. Ultimately, ongoing reflection on the implications of language evolution will be essential for advancing our understanding of human communication in an increasingly interconnected world. Embracing both challenges and opportunities will empower linguists to make meaningful contributions to the discourse surrounding language and its societal impact.

The dynamic evolution of modern linguistics has intensified the need to address emerging terminological and lexical challenges arising from technological innovation, globalization, and interdisciplinary knowledge exchange. The rapid expansion of specialized vocabulary requires systematic approaches to terminology formation, standardization, and lexical description to ensure conceptual clarity and consistency across linguistic research and professional communication. In this context, terminology management and lexicographic practices play a crucial role in facilitating accurate knowledge transfer and supporting the development of linguistic theory.

Addressing these challenges requires coordinated efforts among linguists, terminologists, lexicographers, educators, and specialists from related disciplines. The implementation of standardized terminological frame-



works, the promotion of terminology education, and the integration of digital technologies into lexicographic research will contribute to greater precision and accessibility of linguistic knowledge. Furthermore, increased public engagement with language-related issues can strengthen awareness of the social and cultural significance of terminology in an increasingly interconnected world.

Future research should continue to investigate the mechanisms of terminology development, semantic change, and lexical innovation across languages and specialized domains. Such studies will not only enhance theoretical understanding of language evolution but also provide practical solutions for improving scientific communication, multilingual knowledge exchange, and the development of comprehensive terminological resources. Ultimately, embracing both the challenges and opportunities of contemporary linguistic change will enable researchers to make substantial contributions to modern linguistics and the broader understanding of human communication.

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- 13.00.00 Pedagogika fanlari
  - 13.00.01 Pedagogika nazariyasi. Pedagogik ta'limotlar tarixi
  - 13.00.02 Ta'lim va tarbiya nazariyasi va metodikasi (sohalar bo'yicha)
  - 13.00.03 Maxsus pedagogika
  - 13.00.04 Jismoniy tarbiya va sport mashg'ulotlari nazariyasi va metodikasi
  - 13.00.05 Kasb-hunar ta'limi nazariyasi va metodikasi
  - 13.00.06 Elektron ta'lim nazariyasi va metodikasi (ta'lim sohaları va bosqichlari bo'yicha)
  - 13.00.07 Ta'limda menejment
  - 13.00.08 Maktabgacha ta'lim va tarbiya nazariyasi va metodikasi
  - 13.00.09 Ijtimoiy pedagogika
  - 07.00.00 Tarix fanlari
  - 19.00.00 Psixologiya fanlari
  - 01.00.00 Fizika-matematika fanlari
  - 02.00.00 Kimyo fanlari
  - 03.00.00 Biologiya fanlari
  - 09.00.00 Falsafa fanlari
  - 10.00.00 Filologiya fanlari
  - 11.00.00 Geografiya fanlari



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