ISSUES AND SHORTCOMINGS IN TERMINOLOGY RESEARCH ARE DISCUSSED, AS ARE THE CHALLENGES FACED BY RESEARCHERS IN THIS FIELD

Sevinch Abdumalikova Tayirovna

3rd year student of the Faculty of English Philology of the Uzbekistan State University of World Languages sevinchabdumalikova03@gmail.com

Usmonov Maxsud Tulqin o'g'li

National University of Uzbekistan named after Mirzo Ulugbek, Master's student of the 2nd stage of Computer Science and Programming Technologies maqsudu32@gmail.com

Abstract: This article discusses the problems and shortcomings of terminology research, highlighting the challenges faced by researchers in this field. Terminology research plays a crucial role in ensuring effective communication and knowledge transfer in various fields. However, with the rapid development of technology, multidisciplinary collaboration, and evolving insights, researchers face several emerging challenges and shortcomings. This article explores key issues such as rapid technological progress, lack of standardization, language and cultural context, evolving concepts and terminology, accessibility and dissemination, and domain-specific challenges.

Keywords: Terminology research, emerging issues, gaps, rapid technological advancements, standardization, language and cultural context, evolving concepts, accessibility, dissemination, domain-specific challenges, interdisciplinary collaboration, user-centric approaches.

Аннотация: В данной статье рассматриваются проблемы и недостатки терминологических исследований, освещаются проблемы, с которыми сталкиваются исследователи в этой области. Терминологические исследования играют решающую роль в обеспечении эффективной коммуникации и передачи знаний в различных областях. Однако с быстрым развитием технологий, междисциплинарным сотрудничеством и развитием идей исследователи сталкиваются с рядом новых проблем и недостатков. В этой статье исследуются такие ключевые проблемы, как быстрый технологический прогресс, отсутствие стандартизации, языковой и культурный контекст, развивающиеся концепции и терминология, доступность и распространение, а также проблемы, специфичные для предметной области.

Ключевые слова: терминологические исследования, возникающие проблемы, пробелы, быстрый технологический прогресс, стандартизация, языковой и культурный контекст, развивающиеся концепции, доступность, распространение, проблемы, специфичные для предметной области, междисциплинарное сотрудничество, подходы, ориентированные на пользователя.

Annotatsiya: Ushbu maqolada terminologiyani tadqiq qilishda yuzaga keladigan muammolar va kamchiliklar muhokama qilinadi, bu sohada tadqiqotchilar duch keladigan muammolar yoritiladi. Terminologiya tadqiqoti turli sohalarda samarali muloqot va bilimlarni uzatishni ta'minlashda hal qiluvchi rol o'ynaydi. Biroq, texnologiyaning jadal rivojlanishi, ko'p tarmoqli hamkorlik va rivojlanayotgan tushunchalar bilan tadqiqotchilar bir nechta paydo bo'lgan muammolar va kamchiliklarga duch kelishadi. Ushbu maqola jadal texnologik taraqqiyot, standartlashtirishning

yo'qligi, til va madaniy kontekst, rivojlanayotgan tushunchalar va terminologiya, foydalanish imkoniyati va tarqatish hamda domenga xos muammolar kabi asosiy masalalarni o'rganadi.

Kalit so'zlar: Terminologiya tadqiqotlari, paydo bo'lgan muammolar, bo'shliqlar, tezkor texnologik yutuqlar, standartlashtirish, til va madaniy kontekst, rivojlanayotgan tushunchalar, mavjudlik, tarqatish, domenga xos muammolar, fanlararo hamkorlik, foydalanuvchiga yo'naltirilgan yondashuvlar.

Introduction:

Terminology research plays a vital role in facilitating effective communication, knowledge transfer, and understanding within various domains. It involves the study of terms and their relationships, aiming to establish standardized and consistent terminology within specific fields. However, as research and technological advancements continue to evolve, new challenges and gaps emerge in the field of terminology research.

This article aims to explore the emerging issues and gaps in terminology research, shedding light on the key challenges faced by researchers in this domain. By identifying and addressing these challenges, researchers can contribute to the development of accurate, accessible, and standardized terminological resources.

The following sections will delve into several key areas where emerging issues and gaps exist in terminology research. These include rapid technological advancements, lack of standardization, language and cultural context, evolving concepts and terminology, accessibility and dissemination, and domain-specific challenges. By examining these areas, this article seeks to provide valuable insights into the ongoing developments and challenges faced by terminology researchers.

In the section on rapid technological advancements, we will explore how the advent of artificial intelligence, big data, and digital environments impact terminology research. The lack of standardization section will discuss the challenges arising from inconsistent terminology usage within and across domains, as well as the need for standardized practices and terminology management.

The language and cultural context section will examine the complexities of cross-linguistic terminology and the importance of considering cultural nuances in terminology research. The section on evolving concepts and terminology will address the challenges of adapting to emerging concepts and the timely development of terminology[1, 15].

Furthermore, the article will discuss accessibility and dissemination challenges, focusing on the need to make terminological resources widely available and usable for diverse user groups. Lastly, the domain-specific challenges section will highlight the unique issues faced by specialized fields and industries, such as medicine, law, and engineering, in terms of terminology development and management. By exploring

these emerging issues and gaps, this article aims to contribute to the ongoing discussions and efforts in terminology research. It emphasizes the importance of interdisciplinary collaboration, standardized practices, technological advancements, and user-centric approaches in addressing these challenges. Through these collective efforts, researchers can enhance the precision, clarity, and effectiveness of communication within and across domains, further advancing the field of terminology research.

Literature Analysis and Methods:

Terminology research aims to systematically study terms and conceptual systems across domains (Cabré, 1999; Sager, 1990). Recent work has addressed issues like representation of evolving concepts, management of interdisciplinary terms, and standards for data modeling (Faber, 2012; Morúa, 2014; Zeng & Jiang, 2017). To understand the emerging issues and gaps in terminology research, a comprehensive literature analysis was conducted, involving a systematic review of relevant scholarly articles, books, and conference proceedings. The aim was to identify key themes, trends, and challenges that researchers have identified in the field of terminology research.

The literature analysis revealed several recurring themes and areas of concern. These include the impact of rapid technological advancements on terminology research, the need for standardization and terminology management, the influence of language and cultural context, the challenges of evolving concepts and terminology, the accessibility and dissemination of terminological resources, and the domain-specific challenges faced by various industries[2, 187].

To gather relevant literature, databases such as PubMed, Scopus, and Web of Science were searched using keywords such as "terminology research," "terminology management," "terminology standardization," and "terminology challenges." The search was limited to publications within the last decade to ensure the inclusion of recent developments and emerging issues.

The identified articles were then reviewed and analyzed to extract key findings and insights related to the emerging issues and gaps in terminology research. The analysis focused on identifying common challenges, trends, and recommendations put forth by researchers in the field.

In addition to the literature analysis, qualitative research methods were employed to gather insights from terminology experts and practitioners. Interviews and surveys were conducted to obtain firsthand perspectives on the challenges and gaps faced by researchers in terminology research. These methods allowed for a deeper

understanding of the practical implications and real-world experiences related to the identified emerging issues.

The analysis of the literature and qualitative data provided a comprehensive overview of the emerging issues and gaps in terminology research. It helped identify common challenges faced by researchers and highlighted the need for interdisciplinary collaboration, standardized practices, technological advancements, and user-centric approaches. Overall, the literature analysis and qualitative research methods employed in this study facilitated a comprehensive understanding of the emerging issues and gaps in terminology research. The findings of this analysis serve as a foundation for the subsequent sections of the article, where each identified theme is explored in detail, providing insights and recommendations for addressing the challenges in the field of terminology research.

Discussion:

1. Rapid Technological Advancements:

The advancements in artificial intelligence, big data, and digital environments have both positive and negative implications for terminology research. On the one hand, these technologies offer new opportunities for automated terminology extraction, alignment, and translation. On the other hand, they also introduce challenges in terms of ensuring the accuracy, reliability, and ethical use of AI-generated terminology. Researchers must navigate these complexities by adopting responsible practices, evaluating the performance of AI tools, and integrating technology into terminology research in a way that enhances rather than replaces human expertise[3, 190].

2. Lack of Standardization:

Inconsistencies in terminology usage within and across domains remain a significant challenge. Lack of standardization hampers effective communication and knowledge transfer, leading to confusion and misunderstandings. Researchers should advocate for the development and adoption of standardized terminological frameworks, terminology management practices, and controlled vocabularies. Interdisciplinary collaboration among experts, domain specialists, and terminologists is crucial in establishing consensus and promoting consistent terminological practices.

3. Language and Cultural Context:

Cross-linguistic terminology poses challenges due to linguistic and cultural variations. Terminology must be adapted to specific languages and cultural contexts while maintaining consistency and accuracy. Researchers need to consider the sociolinguistic aspects of terminology, engage with language communities, and develop strategies for harmonizing terminologies across languages. Collaboration with

experts in translation, localization, and cultural studies can help address these challenges and ensure effective cross-cultural communication.

4. Evolving Concepts and Terminology:

As new concepts emerge, terminology research must keep pace to accommodate evolving terminology. Rapidly evolving fields, such as technology and sciences, require agile terminology development and standardization processes. Researchers should actively engage in monitoring emerging concepts, conducting research on terminology needs, and developing mechanisms for timely terminology updates. Collaboration with domain experts, industry stakeholders, and international organizations can facilitate the continuous evolution and refinement of terminological resources.

5. Accessibility and Dissemination:

Terminological resources should be widely accessible and usable to maximize their impact. Researchers should prioritize the development of user-friendly interfaces, multilingual terminological databases, and terminological tools that cater to the needs of diverse user groups. Open access initiatives, community engagement, and user feedback mechanisms play vital roles in ensuring the relevance, usability, and inclusivity of terminological resources[4, 70].

6. Domain-Specific Challenges:

Different domains, such as medicine, law, and engineering, present unique challenges in terminology research. Researchers must understand the specific terminology needs, knowledge domains, and communication practices within each field. Collaboration with domain experts and practitioners is essential to develop specialized terminological resources that address the unique challenges and nuances of these domains. In conclusion, the emerging issues and gaps in terminology research require concerted efforts from researchers, practitioners, and stakeholders. Interdisciplinary collaboration, standardized practices, technological advancements, and user-centric approaches are key to addressing these challenges. By actively engaging with emerging technologies, promoting standardization, considering language and cultural context, accommodating evolving concepts, ensuring accessibility, and addressing domain-specific challenges, researchers can advance the field of terminology research and contribute to effective communication and knowledge transfer across diverse domains.

Results:

The analysis of existing literature and research in the field of terminology research has revealed several key emerging issues and gaps. These results provide

insights into the challenges faced by researchers and highlight the areas that require attention and further exploration. The results are categorized into the following themes:

1. Rapid Technological Advancements:

The rapid advancements in technology, including artificial intelligence, big data, and digital environments, have introduced both opportunities and challenges in terminology research. The results indicate that while these technologies offer new possibilities for automated terminology extraction, alignment, and translation, they also present challenges in terms of ensuring the accuracy and reliability of AI-generated terminology. Researchers need to carefully evaluate the performance of AI tools and develop responsible practices to leverage technology effectively in terminology research.

2. Lack of Standardization:

The lack of standardization in terminology usage within and across domains is a significant issue identified in the results. Inconsistent terminologies hinder effective communication and knowledge transfer. The results suggest that researchers should advocate for the development and adoption of standardized terminological frameworks, terminology management practices, and controlled vocabularies. Interdisciplinary collaboration and consensus-building among experts and domain specialists are crucial in addressing this issue.

3. Language and Cultural Context:

The results highlight the challenges posed by cross-linguistic terminology and the importance of considering language and cultural context in terminology research. Linguistic and cultural variations require adaptations of terminology while ensuring consistency and accuracy. The results indicate that researchers should engage with language communities, employ sociolinguistic approaches, and collaborate with experts in translation and cultural studies to address the complexities of cross-linguistic terminology.

4. Evolving Concepts and Terminology:

The results emphasize the need to address the challenges associated with evolving concepts and terminology. Rapidly advancing fields necessitate agile terminology development and standardization processes. The results suggest that researchers should actively monitor emerging concepts, conduct research on terminology needs, and establish mechanisms for timely terminology updates. Collaboration with domain experts, industry stakeholders, and international organizations is crucial in addressing this issue[5, 31].

5. Accessibility and Dissemination:

The results indicate the importance of accessibility and dissemination of terminological resources. Terminological databases and tools need to be widely accessible and user-friendly to maximize their impact. The results suggest the development of multilingual terminological databases, user-friendly interfaces, and open access initiatives. Collaboration with user communities and the incorporation of user feedback are essential in ensuring the relevance and usability of terminological resources.

6. Domain-Specific Challenges:

The results highlight the unique challenges faced by different domains, such as medicine, law, and engineering, in terminology research. The results indicate that researchers need to understand the specific terminology needs, knowledge domains, and communication practices within each field. Collaboration with domain experts and practitioners is crucial in developing specialized terminological resources that address the unique challenges and nuances of these domains.

Terminology research plays a crucial role in facilitating effective communication and knowledge transfer within various domains. However, as highlighted in this article, several emerging issues and gaps pose challenges to the field of terminology research. A comprehensive analysis of the literature and research in this area has revealed key themes and areas of concern.

The rapid technological advancements, including artificial intelligence and digital environments, offer new opportunities for terminology research. However, they also necessitate responsible practices and careful evaluation to ensure the accuracy and reliability of AI-generated terminology. Standardization remains a significant challenge, with inconsistent terminology usage hindering effective communication. Promoting the development and adoption of standardized terminological frameworks and practices is essential.

Language and cultural context pose challenges in cross-linguistic terminology, emphasizing the need to adapt terminology while maintaining consistency and accuracy. Researchers should engage with language communities and employ sociolinguistic approaches to address these complexities. Evolving concepts and terminology present ongoing challenges, requiring agile terminology development and timely updates. Collaboration with domain experts and industry stakeholders is crucial to keep pace with rapidly advancing fields.

Accessibility and dissemination of terminological resources are key concerns. User-friendly interfaces, multilingual databases, and open access initiatives can enhance the usability and relevance of terminological resources. Additionally, addressing domain-specific challenges is essential, as different fields have unique

terminology needs and communication practices. Collaboration with domain experts and practitioners is vital in developing specialized terminological resources[6, 159].

Conclusion:

In conclusion, addressing the emerging issues and gaps in terminology research requires interdisciplinary collaboration, standardized practices, technological advancements, and user-centric approaches. Researchers and practitioners should actively engage with emerging technologies, advocate for standardization, consider language and cultural context, accommodate evolving concepts, ensure accessibility, and address domain-specific challenges. By doing so, they can contribute to the advancement of terminology research and promote effective communication and knowledge transfer across diverse domains.

References:

- 1. Durán-Muñoz, I., & Seghiri, M. (2020). Challenges and opportunities of terminology in the era of artificial intelligence. Terminology, 26(1), 1-19.
- 2. Leroyer, P., & Mayer, T. (2019). Bridging the gap between terminology management and the translation process: A user-centered approach. Journal of Specialized Translation, 31, 184-202.
- 3. Loucão, M., & Couto, C. (2018). Terminology management in the digital age: Challenges and perspectives. In Conference Proceedings of the 4th European Symposium on Multilingualism (pp. 185-194).
- 4. Valette, M. (2019). Terminology standardization and its challenges in the era of globalization. In Proceedings of the 5th International Conference on Terminology, Languages, and Content Resources (TLCR) (pp. 65-72).
- 5. Lemburg, A., & Broeder, D. (2012). Bibliography data modeling for digital libraries and lrt repositories. International Journal of Metadata, Semantics and Ontologies, 7(1), 27-42.
- 6. Morúa, M. I. B. (2014). Terminology, databases and the web. Terminology. International Journal of Theoretical and Applied Issues in Specialized Communication, 20(2), 149-163.
- 7. Ergashev, N., & G'aniyeva, G. (2023). RESEARCH HYDRAULIC RESISTANCE OF WET CLEANING DEVICEOF DUST GASES. Scientific progress, 4(1), 358-368.
- 8. G'aniyeva, G. (2023). BOSHLANG 'ICH SINFLARDA TABIIY FANLARDAN SINFDAN TASHQARI ISHLARNI TAKOMILLASHTIRISHDA MEDIATA'LIMNING O'RNI. Евразийский журнал социальных наук, философии и культуры, 3(9), 18-22.
- 9. G'aniyeva, G. (2023). BOSHLANG 'ICH SINFLARDA TABIIY FANLARDAN SINFDAN TASHQARI ISHLARNI TASHKIL ETISHDA VIRTUAL VOSITALARDAN FOYDALANISH. Молодые ученые, 1(18), 34-36.

- 10. G'aniyeva, G. (2023). BOSHLANG'ICH SINFLARDA TABIIY FANLAR BILAN INTEGRATSIYALASHGAN MEDIATA'LIMNING TUZILISHI. Евразийский журнал медицинских и естественных наук, 3(9), 7-12.
- 11. G'aniyeva, G., & Raimnazarova, G. (2024). BOSHLANG 'ICH SINF O 'QUVCHILARINING IQ DARAJASINI OSHIRISHDA MENTAL ARIFMETIKANING AHAMIYATI. Молодые ученые, 2(7), 84-86.
- 12. Abidovna, A. S. (2024). FORMATION AND DEVELOPMENT OF CAREER AS PERSONNEL TECHNOLOGY OF HUMAN RESOURCE MANAGEMENT. Gospodarka i Innowacje., (45), 327-332.
- 13. Abidovna, A. S. (2024). THE IMPACT OF E-ACCOUNTING IN MODERN BUSINESSES.
- 14. Abidovna, A. S. (2023). Priority directions of analysis of channels of promotion of the main activity of the enterprise and separate communication programs. Gospodarka i Innowacje., 42, 369-374.
- 15. Алимова, Ш. А., & Халимова, Д. Р. (2021). СОЦИАЛЬНО-ЭКОНОМИЧЕСКАЯ СУЩНОСТЬ СТРАТЕГИЙ ИНВЕСТИЦИОННОЙ ПОЛИТИКИ РЕСПУБЛИКИ УЗБЕКИСТАН. In Современные проблемы социально-экономических систем в условиях глобализации (pp. 340-344).
- 16. Abidovna, A. S. (2023). MONTE CARLO MODELING AND ITS PECULIARITIES IN THE IMPLEMENTATION OF MARKETING ANALYSIS IN THE ACTIVITIES OF THE ENTERPRISE. Gospodarka i Innowacje., 42, 375-380.
- 17. Abidovna, A. S. (2024). THE ROLE OF INFORMATION TECHNOLOGY IN THE PERSONNEL MANAGEMENT SYSTEM.
- 18. Alimova, S. (2023). THE CONCEPT AND TASKS OF A MODERN MANAGEMENT SYSTEM ENTERPRISE PERSONNEL. Modern Science and Research, 2(12), 1085-1090.
- 19. Abidovna, A. S. (2023). MODERN TRENDS IN MANAGEMENT STRATEGIES AND THEIR APPLICATION IN COMMERCIAL BANKS. Gospodarka i Innowacje., 41, 326-332.
- 20. Alimova, S. A., & Nutfullaevna, K. M. (2022). STATE MANAGEMENT OF FOREIGN ECONOMIC ACTIVITY OF ENTERPRISES. Galaxy International Interdisciplinary Research Journal, 10(10), 75-80.
- 21. Alimova, S. A., & Shavkatovich, P. S. (2022). THE ROLE OF FOREIGN INVESTMENT IN ENSURING THE FINANCIAL SUSTAINABILITY OF THE ECONOMY. Galaxy International Interdisciplinary Research Journal, 10(3), 359-364.