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LINGUISTIC AND ECOLOGICAL INTERPRETATIONS OF THE CONCEPT OF LANGUAGE ENVIRONMENT AND THEIR THEORETICAL FOUNDATIONS

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Abstract. In this article, the linguoecological interpretations of the concept of the language environment are theoretically analyzed. Issues of the formation and stability of the ecology of the Uzbek language are highlighted based on symbolic, natural, sociocultural, and cognitive approaches.

Keywords: linguoecology, language environment, ecology of the Uzbek language, sociolinguistic factors, symbolic ecology, natural ecology, socio-cultural ecology, cognitive ecology.

Introduction

In modern linguistics, it is becoming increasingly clear that it is not enough to interpret language only as an internal structural system. In the context of globalization, cultural integration, migration processes, and the expansion of the digital communication space, the existence, stability, and development of language are inextricably linked with the social, cultural, cognitive, and natural factors surrounding it. This need became the basis for the formation and development of the direction of linguoecology in linguistics. Linguoecology aims to comprehensively study the conditions of language use, the "environment" of language and the influence of this environment on the language system and the social status of language.

The concept of "language environment" is one of the central categories of linguoecology, which means a set of factors that determine the processes of existence, functioning, and change of language. This concept is interpreted differently in different scientific paradigms. In some approaches, the language environment is considered in connection with the coexistence and mutual competition of languages in one space, while in other views it is explained by sociocultural relations, speech communities, and communicative practices. Also, cognitive and biological approaches explain the language environment within the framework of the human perception system and dynamic interaction with the environment.

The theoretical foundation of linguoecology, first of all, goes back to the concept of language ecology put forward by E. Haugen. This concept made it possible to interpret language not as an abstract system, but as a phenomenon that lives and develops in a certain environment. In Blakledge's words, "Haugen saw the value of the language ecology model not only in describing the social and psychological state of language, but also in the need to study the impact of this state on the language itself"[1]. This idea deeply reveals the essence of linguoecology, since it requires the interpretation of the language environment not only as an external condition, but also as a factor that actively influences changes in the language system.

Literature review and methods

[1] Blackledge, A., 2008. Language ecology and language ideology. In: Creese, A., Martin, P., Hornberger, N.H. (Eds.), Encyclopedia of Language and Education. Volume 9: Ecology of Language, second ed. Springer Science+Business Media LLC, Berlin, P. 27–40.

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The formation and development of the theory of linguoecology is explained, first of all, by research aimed at the interpretation of language in close connection with the social and cultural environment. The conceptual foundations of this direction were developed by E.Haugen, and later the concept of Haugen was developed by modern researchers and enriched with various scientific directions. In particular, A.Blackledge analyzes the inextricable link between language ecology and language ideology, explaining the language environment through social inequality, identity, and power relations[2]. Steffensen and Fill interpret linguoecology "as a cognitive and activity-oriented paradigm, showing language as a product of interaction between biological organisms and the environment"[3]. M.Garner, striving to transform linguoecology from a metaphorical concept into an independent linguistic theory, substantiates the systemic and interdisciplinary features of the language environment[4]. These studies confirm that the concept of the language environment in linguoecology is a multifaceted and complex scientific category.

This research has a theoretical direction, in which descriptive-analytical, comparative, and conceptual analysis methods were used. With the help of the descriptive-analytical method, linguoecological interpretations of the concept of the language environment were consistently presented, and the theoretical views put forward by various scientists were compared using the comparative method. Conceptual analysis served to determine the content of such basic concepts as "language environment" and "language ecology". The study used an interdisciplinary approach and integrated theoretical views within the framework of linguistics, sociology, and cognitive sciences.

Discussion and results

The development of the theory of language ecology is characterized by the formation of various scientific approaches after the main concept put forward by Haugen. The results of the study show that the views on the interpretation of the language environment within the framework of linguoecology are not the same, but have developed on the basis of different scientific paradigms. Therefore, after Haugen, different approaches to the ecology of language appeared, and in the history of ecolinguistics, it is important to study the following directions in order to explain the essence of the language environment.

"In the history of ecolinguistics, four main strands can be distinguished according to how the environment of language is understood:

- **Language exists in a symbolic ecology:** this approach examines the co-existence and interaction of languages or symbolic systems within a particular geographical or social space.
- **Language exists in a natural ecology:** this approach explores the relationship between language and the biological and ecosystemic environment, including factors such as climate, topography, flora, and fauna.

[2] Blackledge, A., 2008. Language ecology and language ideology. In: Creese, A., Martin, P., Hornberger, N.H. (Eds.), Encyclopedia of Language and Education. Volume 9: Ecology of Language, second ed. Springer Science+Business Media LLC, Berlin, P. 27.
[3] Fill A., Steffensen S.V. Ecolinguistics: the state of the art and future horizons // Language Sciences. № 41 (2014) 6–25.
[4] Garner, M. (2005). Language Ecology as Linguistic Theory. Kajian Linguistik dan Sastra, 17(33), 91–101.

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- **Language exists in a sociocultural ecology:** this approach focuses on the ways in which language is shaped by social structures, cultural practices, and historical forces that influence speakers and speech communities.
- **Language exists in a cognitive ecology:** this approach investigates how language emerges from the dynamic interaction between biological organisms and their environment, with particular attention to cognitive capacities that enable flexible and adaptive behavior."[5].

Analysis of the Uzbek language environment from the point of view of symbolic ecology is explained by the coexistence of languages and sign systems in one territory. In Uzbek society, along with the Uzbek language, the active use of Karakalpak, Russian, English, Tajik, and other languages creates a multi-layered language environment. In particular, the mixing of codes, abbreviations, and the active use of international terms in social networks and the space of digital communication clearly demonstrates the influence of symbolic ecology on the ecology of the Uzbek language. Thus, the Uzbek language, "communicating" with other languages, preserves and changes its symbolic place in society - this is symbolic ecology. This process, on the one hand, expands communicative possibilities, and on the other hand, puts a certain pressure on the stability of literary language norms.

The natural ecological approach of the language allows us to analyze the connection of the Uzbek language with the natural-geographical environment. The climatic, topographical, and historical features of the territory of Uzbekistan are reflected in the lexical layer, especially in terms related to nature, economic activity, and lifestyle. Words related to desert and oasis cultures, terms related to agriculture, indicate that the language developed in close connection with the natural environment. For example, rural residents living in the mountainous regions of Uzbekistan use more words denoting mountains and natural phenomena in the Uzbek language, which reflects their way of communicating with the natural environment. However, as a result of the processes of urbanization and technological development, there is a passivation of vocabulary related to natural ecology, which makes the issue of balance in language ecology relevant.

Socio-cultural ecology illuminates aspects related to the position of the Uzbek language in society, speech communities, and cultural values. The research results show that "the ecology of language is primarily determined by the people who learn it, use it, and transmit it to others." The ecological state of the Uzbek language is formed through the education system, language policy, mass media, and family communication. New words and phrases in the Uzbek language spread among young people through the Internet, social networks, this process reflects the technological and cultural development of society, that is, the language and socio-cultural environment form each other.

From the point of view of cognitive ecology, the Uzbek language is interpreted as a phenomenon that is formed in the process of human interaction with the system of perception and the environment. In the context of digital communication, speech contraction, a tendency towards phonetic writing, and the use of visual signs (emojis, graphic symbols) are considered as the result of cognitive adaptation. Although this process shows that the Uzbek language is adapting to new communicative needs, it requires discussion of the issue of preserving the normative language.

The research results show that the ecology of the Uzbek language is a multifaceted and complex system, the stability of which depends on the harmony of symbolic, natural, socio-cultural, and cognitive ecological directions. Each approach highlights a specific aspect of the

[5] Fill A., Steffensen S.V. Ecolinguistics: the state of the art and future horizons // Language Sciences. № 41 (2014). P.3.

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Uzbek language, and their comprehensive analysis allows for a deeper understanding of language ecology. These approaches serve as an important theoretical basis for the development of scientific and practical measures aimed at ensuring the ecological sustainability of the Uzbek language.

Conclusion

This research was aimed at the theoretical analysis of linguo-ecological interpretations of the concept of language environment and determining their impact on the ecology of the Uzbek language. The results of the study show that the symbolic, natural, sociocultural, and cognitive directions formed within the framework of linguoecology allow us to understand language not as a single, static system, but as a complex, dynamic phenomenon inextricably linked with the environment. These approaches serve as an important theoretical basis for explaining the modern development processes of the Uzbek language.

A comprehensive study of the linguoecological interpretations of the concept of the language environment creates an important theoretical basis for the development of scientific and practical strategies aimed at ensuring the ecological sustainability of the Uzbek language. The research results are significant in that they serve to further deepen the theory of linguoecology, as well as to strengthen the position of the Uzbek language in the modern communicative space.

List of used literature:

1. Blackledge, A., 2008. Language ecology and language ideology. In: Creese, A., Martin, P., Hornberger, N.H. (Eds.), Encyclopedia of Language and Education. Volume 9: Ecology of Language, second ed. Springer Science+Business Media LLC, Berlin, P. 27–40.
2. Fill A., Steffensen S.V. Ecolinguistics: the state of the art and future horizons // Language Sciences. № 41 (2014) 6–25.
3. Garner, M. (2005). Language Ecology as Linguistic Theory. Kajian Linguistik dan Sastra, 17(33), 91–101.
4. Haugen, E., 2001. The ecology of language. In: Fill, A., Mühlhäusler, P. (Eds.), The Ecolinguistics Reader. Language, Ecology and Environment. Continuum, London, pp. 57–66 (Reprint of Haugen, 1972.).