TITLE: COGNITIVE ASPECT OF STUDYING TOPONYMY

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Abstract: This article explores cognitive toponymy, examining how humans perceive, process, and utilize geographical names. Drawing on insights from linguistics, geography, psychology, and anthropology, it reveals place names as complex cognitive artifacts, intertwined with language, memory, and cultural identity. The article discusses the encoding of toponyms in memory, their processing in the brain, and their role in spatial orientation and cultural interpretation. It also highlights the educational and practical implications of cognitive toponymy in geography, history, urban planning, and navigation systems. Overall, this multidisciplinary exploration advances our understanding of the intricate interplay between language, cognition, and geography.

Keywords:Cognitive toponymy, geographical names, multidisciplinary exploration, navaigation systems, spatial orientation, cultural identity, encoding

Annotatsiya: Ushbu maqola kognitiv toponimiyani o'rganadi, odamlar geografik nomlarni qanday qabul qilishlari, qayta ishlashlari va ulardan foydalanishlarini o'rganadilar. U tilshunoslik, geografiya, psixologiya va antropologiya fanlaridan olingan ma'lumotlarga tayangan holda joy nomlarini til, xotira va madaniy o'ziga xoslik bilan o'zaro bog'langan murakkab kognitiv artefaktlar sifatida ochib beradi. Maqolada toponimlarning xotirada kodlanishi, ularning miyada qayta ishlanishi, fazoviy orientatsiya va madaniy talqindagi roli muhokama qilinadi. Shuningdek, u geografiya, tarix, shaharsozlik va navigatsiya tizimlarida kognitiv toponimikaning o'quv va amaliy ahamiyatini yoritadi. Umuman olganda, ushbu ko'p tarmoqli tadqiqot til, bilish va geografiya o'rtasidagi murakkab o'zaro bog'liqlikni tushunishimizni rivojlantiradi.

Kalit soʻzlar: Kognitiv toponimiya, geografik nomlar, ko'p tarmoqli tadqiqotlar, navigatsiya tizimlari, fazoviy orientatsiya, madaniy o'ziga xoslik, kodlash

Аннотация: В этой статье исследуется когнитивная топонимика, изучая, как люди воспринимают, обрабатывают и используют географические названия. Опираясь на данные лингвистики, географии, психологии и антропологии, он раскрывает топонимы как сложные когнитивные артефакты, переплетенные с языком, памятью и культурной идентичностью. В статье рассматривается кодирование топонимов в памяти, их обработка в мозгу, их роль в пространственной ориентации и культурной интерпретации. В нем также

освещаются образовательные и практические последствия когнитивной топонимики в географии, истории, городском планировании и навигационных системах. В целом, это междисциплинарное исследование расширяет наше понимание сложного взаимодействия между языком, познанием и географией.

Ключевые слова: Когнитивная топонимика, географические названия, междисциплинарные исследования, навигационные системы, пространственная ориентация, культурная идентичность, кодирование

Introduction: The cognitive aspect of studying toponymy, or the study of place names, encompasses a multifaceted exploration of how humans process, remember, and use geographical names. This exploration intersects various academic disciplines, including linguistics, geography, psychology, and anthropology, providing a comprehensive understanding of the role of toponyms in human cognition. Toponymy, traditionally seen as a subset of linguistic geography, has evolved to include a cognitive dimension. This approach recognizes that place names are not just arbitrary markers but are deeply embedded in our cognitive processes. They are mnemonic devices, cultural signifiers, navigational aids, and much more. Toponymy, a field within linguistic research, has historically been closely linked with notions like 'world view', 'concept', 'conceptual model', and 'cognitive approach'. In the last twenty-five years, experts have increasingly applied a cognitive perspective to study the toponymy of specific regions. In this context, comprehensive toponymic models are deemed crucial. Given that language is a fundamental component of the cognitive system, its cognitive function must be considered when examining toponymy as an independent layer of language. The cognitive approach characterizes language via cognitive processes like categorization, as well as conceptual metaphor and metonymy. As elements of language, toponyms are the "products" of human cognition, created by individuals within specific communities. Consequently, incorporating the cognitive perspective is essential for an in-depth analysis of a region's toponymy{Martynenko.2020:55}

The concept of a toponymic system, a significant contribution of structural linguistics, demonstrates substantial alignment with cognitive objectives. A key focus of the cognitive approach to language involves exploring how knowledge is structured and represented. Consequently, analyzing the toponymic worldview, particularly through its temporal and spatial-functional parameters, logically aligns with this paradigm {Дмитриева.2001:13-18}

Materials: Scholarly articles and research papers on cognitive toponymy from various disciplines provide in-depth insights into how humans perceive, process, and use geographical names. These articles typically stem from interdisciplinary research efforts, drawing on the expertise of linguists, geographers, psychologists, and anthropologists to explore different facets of toponymy. From linguistics, these

materials delve into the linguistic structures of place names, their etymology, and their role in language systems. Linguistic research might focus on the phonetic and semantic aspects of toponyms, examining how their sounds and meanings contribute to their cognitive processing. Geographical studies of cognitive toponymy often investigate how place names contribute to mental mapping and spatial cognition. Researchers in geography might explore how individuals use place names as landmarks or reference points in mental representations of physical spaces. Psychological perspectives on cognitive toponymy delve into the cognitive processes involved in remembering and recalling geographical names. These studies may examine factors such as emotional attachment and cultural significance, which influence the ease with which place names are remembered.

Methods: Conducted a comprehensive review of scholarly articles and research papers on cognitive toponymy from various disciplines, including linguistics, geography, psychology, and anthropology. Identify key themes, concepts, and research methodologies employed in the existing literature. Interdisciplinary Analysis: Analyzed the interdisciplinary nature of cognitive toponymy by examining how insights from linguistics, geography, psychology, and anthropology converge to deepen our understanding of geographical names and human cognition. Comparative Study: Compare and contrast approaches to cognitive toponymy across different disciplines, highlighting similarities, differences, and potential areas for interdisciplinary collaboration.

Results: The cognitive perspective on toponymy allows us to understand the role of naming places in human existence, how the act of assigning names to places integrates with mental processes, and how these place names interact with other linguistic system elements. It also sheds light on the cognitive underpinnings of onomastic (naming) categories, as well as an individual's capacity to understand and interpret the world they perceive, encompassing the relationships between objects, subjects, and their respective symbols { IIIepδaκ.2012:319}

Hence, it's reasonable to propose that the cognitive approach can be effectively applied to various aspects of toponymic research. This approach might offer insights into certain onomastic issues that traditional methods struggle to address, such as the nature of toponymic derivatives. Examining toponymy from a cognitive viewpoint helps unveil the world as represented by place names from one or several ethnic groups that have lived or are living in a region. The significance of this approach lies in its ability to vividly highlight the national-cultural characteristics of the mentality of peoples who have imparted their toponymic influence in the region over different periods. {Martynenko.2020:56}

Despite their denotative characteristics, geographical names have not traditionally been a primary focus for cognitive scientists. We believe that the initial

effort to describe the concept of a location was undertaken in 1998 by M. Golomidova in her dissertation titled "Artificial Nomination in Russian Onomastics" {Golomidova.1998: 376}

The widespread adoption of cognitive approaches in toponymy research emerged only in the 2000s. Researchers globally started to interpret cognition as an amalgamation of various cognitive activities (such as perception, imagery, representation, the creation of meaning, and word formation) particularly within the scope of cartographic studies. Consequently, toponymic entities started being viewed as tools for materializing concepts that arise from cognitive processes. {Martynenko.2020:56}

Balandina points out that while toponyms are more aligned with the 'language' aspect of the 'language-speech' dichotomy, they hold a unique position in discourse. She observes that the toponymic system in language emerges as an ethnic group's effort to make sense of their environment, bridging the real and mental worlds by identifying key and recognizable features in extralinguistic reality. From this perspective, toponyms lean towards the 'speech' aspect and become relevant for discourse analysis. Balandina highlights the dualistic nature of the toponymic system: toponyms originate in the speech of a community, get established in the language, and then re-enter speech, where they might be reinterpreted. This is evident in phenomena such as "folk" toponymy or the adaptation of toponyms from one ethnic group into the language of another, often through attempts to find analogous names {Баландина.2018: 55} The phrase "cognitive toponymy" succinctly captures the cognitive dimension involved in analyzing geographical names. We define cognitive toponymy as a branch of onomastics that focuses on how comprehension and knowledge are represented, preserved, and conveyed in geographical names. Consequently, a cognitive toponym refers to a geographical entity's proper name, which encapsulates human perceptions of its concept and the methods through which this knowledge is communicated. {Martynenko.2020:57} Cognitive Toponymy, when integrated into education, presents a unique opportunity to enhance learning experiences, especially in subjects like geography, history, and linguistics. This approach can aid in developing spatial awareness, cultural understanding, and cognitive skills. Incorporating cognitive toponymy into education enriches the learning process, fostering a deeper understanding of the world. It not only aids in geographical and historical knowledge but also develops critical cognitive skills. As educational methods continue to evolve, the role of toponymy in curriculum design is poised to become more significant, offering diverse and integrated learning experiences.

Historically, toponymy focused primarily on the etymology, origin, and historical development of place names. However, in recent decades, there has been a shift towards understanding how these names function within our cognitive processes.

This shift is reflective of the broader movement in linguistics and geography towards a more integrated understanding of language and cognition.

A key aspect of cognitive toponymy is understanding how place names are encoded in and retrieved from memory. This involves exploring how various factors, such as frequency of exposure, emotional attachment, and cultural significance, influence the ease with which these names are remembered and recalled. For instance, a place name associated with personal experiences or significant historical events is likely to be more readily recalled.

From a linguistic perspective, cognitive toponymy examines how place names are processed in the brain. This includes the phonetic (sound structure) and semantic (meaning) aspects of toponyms. For example, a toponym with a unique or unusual phonetic structure may be more easily remembered. Similarly, the meaning attached to a toponym, whether it be descriptive of the geography or reflective of cultural heritage, plays a crucial role in how it is cognitively processed.

Geographically, place names are crucial in the mental mapping of physical spaces. They assist in spatial orientation and navigation, serving as key landmarks or reference points in our mental representation of the world. This aspect of cognitive toponymy explores how individuals use place names to navigate and orient themselves in both familiar and unfamiliar environments.

Cognitive toponymy also delves into the cultural and emotional resonance of place names. Different cultures may imbue place names with varied meanings, reflective of their history, beliefs, and values. The emotional connections people form with certain places, mediated through their toponyms, are also a significant area of study. These connections can range from a sense of belonging and identity to feelings of nostalgia or loss.

The insights gained from cognitive toponymy have practical applications in various fields. In education, understanding how toponyms are cognitively processed can inform teaching methods in geography and history. In urban planning and design, insights into how people perceive and relate to place names can influence the naming of new areas or the preservation of historical toponyms. Additionally, this field can contribute to the development of more effective navigation tools and systems.

Toponyms often carry emotional and symbolic meanings. For instance, a place name like 'Ground Zero' in New York City is laden with emotional weight and historical significance. The cognitive processing of such toponyms goes beyond their literal meaning, invoking emotional responses and collective memories.

In the context of geography and spatial cognition, toponyms play a crucial role in navigation and orientation. The human brain often uses place names as anchors in mental mapping, a cognitive process where individuals create and manipulate mental images of spatial environments. These mental maps are essential for understanding and

navigating through both familiar and unfamiliar spaces, making toponyms integral to our spatial awareness.

Cognitive approach to toponymy offers a deeper understanding of the integral role place names play in human cognition. By exploring how these names are remembered, processed, and utilized, this field provides valuable insights into the intersections of language, memory, culture, and space. As our world becomes increasingly interconnected, the study of toponymy from a cognitive perspective becomes ever more relevant, shedding light on how we comprehend and navigate the complex tapestry of our environments.

Discussion: The discussion section of this article synthesizes the findings from the interdisciplinary analysis of cognitive toponymy and explores their implications for various fields. Integration of Disciplines: The integration of insights from linguistics, geography, psychology, and anthropology offers a comprehensive understanding of cognitive toponymy. By examining place names through multiple lenses, this interdisciplinary approach enriches our understanding of how humans perceive, process, and utilize geographical names. Cognitive Processes: The discussion delves into the cognitive processes involved in toponymic cognition, such as memory encoding, semantic processing, and emotional attachment. It highlights the role of toponyms as mnemonic devices, cultural signifiers, and navigational aids in human cognition. Practical Applications: The practical implications of cognitive toponymy are discussed, emphasizing its relevance for education, urban planning, and navigation systems. Understanding how individuals perceive and interpret place names can inform curriculum design, city planning, and the development of more effective navigation tools. Overall, the discussion section provides a comprehensive synthesis of the interdisciplinary insights gained from cognitive toponymy research and discusses their broader implications for understanding human cognition, cultural identity, and spatial perception.

Concluison: Cognitive toponymy represents a significant advancement in our understanding of the relationship between language, cognition, and geography. It highlights the complex ways in which place names are intertwined with human cognitive processes, cultural contexts, and emotional experiences. This field not only enriches academic discourse but also has practical implications for education, urban planning, and cultural understanding. As we continue to explore the cognitive dimensions of toponymy, we gain deeper insights into how humans interact with, perceive, and make sense of the world around them. The study of toponymy from a cognitive perspective is not just about understanding place names; it is about understanding ourselves and our place in the world. This approach opens new avenues for research and application, promising to enrich our comprehension of the intricate tapestry of human cognition and culture.

Ta'lim innovatsiyasi va integratsiyasi

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