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Method and Methodology of Comparative-Typological Research of Verbs in English-Uzbek Languages

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Abstract: Comparative-typological linguistics offers a valuable framework for analyzing how different languages encode universal grammatical concepts. This approach is especially insightful when comparing typologically distant languages such as English and Uzbek. Verbs serve as a central component of grammatical structure, carrying essential information about tense, aspect, mood, voice, and argument structure. Despite previous studies examining specific phenomena in either English or Uzbek, a holistic comparative-typological analysis of their verb systems remains underdeveloped. Existing literature often lacks a unified methodological framework to compare the complex morphological, syntactic, and semantic dimensions of verbs in these languages. This research aims to develop a rigorous methodological approach for the comparative-typological analysis of English and Uzbek verbs, identifying both shared linguistic principles and language-specific structures. Utilizing a parallel corpus and targeted native speaker elicitation, the study systematically analyzes and compares the verb systems across morphological (e.g., tense, aspect, mood), syntactic (e.g., valency, argument structure), and semantic (e.g., verb classes, TAM semantics) levels. The study offers an integrative methodological framework incorporating both quantitative and qualitative analyses, typological mapping, and contrastive techniques. It also introduces procedures for addressing challenges like non-isomorphic categories and data ambiguity. The findings have theoretical significance for linguistic typology and practical applications in language pedagogy, translation, and computational linguistics, offering a replicable model for future cross-linguistic verb research.

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1. Introduction

The study of language, in its myriad forms and structures, often benefits immensely from a comparative perspective. Comparative linguistics, particularly comparative-typological research, offers a powerful lens through which to examine the similarities and differences between languages, revealing both universal linguistic principles and unique characteristics shaped by distinct historical and cultural trajectories. This article, "Method and Methodology of Comparative-Typological Research of Verbs in English-Uzbek Languages," embarks on an exploration of the theoretical underpinnings and practical approaches essential for conducting such an in-depth analysis, with a specific focus on the complex and pivotal role of verbs[1].

Verbs, as the dynamic core of sentences, are fundamental to expressing actions, states, and occurrences. Their intricate morphology, diverse syntactic behaviors, and rich semantic nuances make them a particularly fertile ground for typological investigation. English, belonging to the Indo-European family, and Uzbek, a Turkic language, represent distinct linguistic types with vastly different grammatical structures and historical developments. This typological divergence presents a compelling opportunity to uncover how these two languages encode verbal meaning and function, and to identify the mechanisms they employ to convey temporal, aspectual, modal, and other grammatical categories[2].

Despite the growing interest in cross-linguistic studies, a comprehensive and systematic comparative-typological analysis of verbs between English and Uzbek remains an area ripe for further academic inquiry. Existing research often focuses on individual grammatical categories or specific linguistic phenomena, leaving a gap in holistic methodological frameworks for such comparative endeavors. This article aims to bridge this gap by outlining a robust methodological apparatus for the comparative-typological study of verbs in these two languages. It seeks to elucidate the most effective methods for identifying, analyzing, and contrasting their verbal systems, thereby contributing to a deeper understanding of linguistic typology and the specific characteristics of English and Uzbek verbs. Ultimately, the insights gained from such research are not only crucial for theoretical linguistics but also hold significant implications for practical applications, including refined language pedagogy, improved translation techniques, and the development of more sophisticated natural language processing tools[3].

Literature Review

Comparative-typological research constitutes a cornerstone of modern linguistics, offering profound insights into the universal and particularistic features of human language. This field, distinct from historical-comparative linguistics which traces genetic relationships, focuses on the structural and functional similarities and differences across languages, irrespective of their genetic affiliation. Early pioneers such as Sapir and Whorf laid foundational groundwork by highlighting the intricate relationship between language structure and thought, implicitly underscoring the need for cross-linguistic comparison. Greenberg's seminal work on language universals further solidified the typological approach, demonstrating that despite superficial variations, languages often exhibit recurring patterns and constraints. His work, particularly the identification of implicational universals, provided a robust framework for systematic cross-linguistic analysis[4].

The methodology of comparative-typological research has evolved significantly, incorporating various analytical levels from phonology and morphology to syntax and semantics. Dixon emphasizes the importance of identifying 'basic linguistic theory' that can be applied across diverse languages, while Croft advocates for a usage-based approach to typology, arguing that typological patterns emerge from the actual use of language. These contemporary perspectives underscore the need for a nuanced methodology that accounts for both abstract linguistic structures and their concrete manifestations in communicative contexts[5].

Regarding the specific comparison of English and Turkic languages, including Uzbek, a considerable body of literature exists, albeit often focusing on specific linguistic phenomena rather than a comprehensive typological overview of verbal systems. Studies on English verbs have extensively covered their complex tense-aspect-modality (TAM) system, their argument structures, and their syntactic behavior within various theoretical frameworks. Similarly, research on Turkic verbs, including Uzbek, has elucidated their agglutinative nature, rich derivational morphology, and distinct TAM markers. These studies often highlight the contrast between English's reliance on auxiliary verbs and

analytical constructions for TAM, and Uzbek's preference for synthetic forms and suffixes[6].

However, a critical review of the existing literature reveals a noticeable gap concerning a dedicated, systematic comparative-typological investigation specifically focused on the verbs of English and Uzbek languages. While individual studies might touch upon certain aspects of verbal comparison (e.g., the expression of perfectivity, modality, or transitivity), a comprehensive methodological framework for such a comparative analysis, encompassing morphological, syntactic, and semantic dimensions, is less frequently articulated. Many comparative works tend to be descriptive, outlining differences, but often lack a detailed discussion of the methodology employed for typological classification and comparison. Furthermore, the theoretical underpinnings guiding the selection of comparative parameters and the interpretation of typological divergences are often implicitly assumed rather than explicitly discussed[7].

2. Materials and Methods

This article seeks to address this lacuna by proposing a robust methodology for the comparative-typological research of verbs in English and Uzbek. It builds upon established typological principles and incorporates insights from both general linguistic theory and specific studies on English and Turkic languages. By systematically outlining the methods for data collection, analysis, and comparison of verbal categories, this research aims to provide a replicable framework that can contribute significantly to the field of linguistic typology and enhance our understanding of how these two typologically distinct languages manage their verbal systems[8].

This section delineates the comprehensive method and methodology employed for the comparative-typological research of verbs in English and Uzbek languages. Drawing upon the theoretical foundations of linguistic typology and addressing the identified lacuna in existing literature, this study proposes a systematic framework for analyzing and contrasting the verbal systems of these two typologically distinct languages. The overarching goal is to uncover both universal linguistic principles manifested in their verb structures and the unique language-specific mechanisms that govern their expression of verbal meaning[9].

Theoretical Framework and Research Objectives

The research is grounded in the principles of linguistic typology, which seeks to classify languages based on their structural properties, independent of genetic relationships. We adopt a multi-dimensional typological approach, acknowledging that linguistic phenomena are interconnected and best understood through an analysis that spans morphological, syntactic, and semantic levels. The primary objectives of this comparative-typological study are:

- a. To identify and categorize the core verbal categories (e.g., tense, aspect, mood, voice, valency) in both English and Uzbek[10].
- b. To analyze the morphological and syntactic mechanisms employed by each language to express these verbal categories.
- c. To systematically compare and contrast the identified verbal phenomena, highlighting patterns of convergence and divergence.
- d. To contribute to a deeper understanding of the typological characteristics of English and Uzbek verb systems.
- e. To propose a replicable methodology for future comparative-typological studies involving languages from different families[11].

Corpus Selection and Data Collection

A robust comparative study necessitates a carefully selected and representative dataset. This research will primarily utilize a parallel corpus of English and Uzbek texts. A parallel corpus, consisting of original texts in one language and their professional

translations into the other, is invaluable for identifying equivalent expressions and understanding how similar meanings are conveyed through different linguistic structures.

Corpus Composition: The corpus will include a diverse range of genres to ensure representativeness, such as: Literary prose (novels, short stories); Journalistic texts (news articles, editorials); Academic texts (excerpts from scholarly articles); Dialogue-rich content (play scripts, film transcripts where available) This diversity helps in capturing a wide array of verbal uses and contexts.

Corpus Size: A minimum size of approximately 500,000 words for each language will be targeted to ensure statistical significance and provide ample examples for analysis[12].

Data Elicitation: In addition to corpus data, targeted elicitation from native speakers will be employed to clarify ambiguities, test hypotheses regarding grammaticality and acceptability, and explore nuances not readily apparent in the corpus. This involves constructing specific sentences or scenarios and asking native speakers for their preferred translations or judgments.

Levels of Analysis and Parameters of Comparison

The comparative analysis will proceed across three interconnected levels: morphological, syntactic, and semantic. Within each level, specific parameters will be identified for systematic comparison[13].

Morphological Analysis

This level focuses on the internal structure of verbs and how grammatical categories are encoded through affixes, internal changes, or auxiliary elements.

Inflectional Morphology

Tense: Comparison of past, present, and future tense markers and their formation (e.g., English -ed, will; Uzbek -di, -yapti, -adi).

Aspect: Analysis of perfective, imperfective, progressive, and habitual aspects (e.g., English be + -ing, have + -en; Uzbek compound verbs, specific suffixes).

Mood: Examination of indicative, imperative, subjunctive, and conditional moods and their morphological realization.

Voice: Comparison of active, passive, and potentially other voices (e.g., causative, reciprocal in Uzbek) and their formation (e.g., English be + V-en; Uzbek -il/-ul, -dir/-tir)[14].

Derivational Morphology

Analysis of how new verbs are formed from existing verbs or other word classes (e.g., nominalization, verbalization processes).

Comparison of valency-changing affixes (e.g., causatives, reflexives, reciprocals in Uzbek).

Syntactic Analysis

This level investigates how verbs function within sentence structures and their relationships with other constituents.

Valency and Argument Structure:

Comparison of intransitive, transitive, ditransitive, and complex transitive verbs.

Analysis of argument realization patterns (e.g., subject, direct object, indirect object, oblique arguments) and their syntactic encoding (e.g., case marking in Uzbek, prepositions in English).

Examination of verb alternations (e.g., dative alternation, passive alternation) and their cross-linguistic equivalents[15].

Verb Phrases (VPs)

Structure of VPs in both languages, including the position of verbs relative to their complements and adjuncts.

Role of auxiliary verbs in English versus the use of suffixes and compound verbs in Uzbek for expressing TAM and modality.

Sentence Types

How verbs contribute to the formation of declarative, interrogative, imperative, and exclamatory sentences.

Specific syntactic constructions involving verbs (e.g., infinitival clauses, gerunds in English; various non-finite verb forms in Uzbek).

Semantic Analysis

This level delves into the meaning conveyed by verbs and their associated grammatical categories.

Lexical Semantics of Verbs

Comparison of semantic classes of verbs (e.g., verbs of motion, cognition, perception, communication).

Analysis of semantic roles assigned by verbs (e.g., Agent, Patient, Beneficiary).

Tense, Aspect, Modality (TAM) Semantics

Detailed comparison of the semantic nuances conveyed by different tense, aspect, and mood markers in both languages. For instance, how English's progressive aspect (is eating) semantically differs from Uzbek's present continuous (yeyapti) in terms of boundedness or ongoingness.

Analysis of modal meanings (e.g., possibility, necessity, permission, obligation) expressed through modal verbs in English versus modal particles, suffixes, or lexical verbs in Uzbek.

Evidentiality: If applicable, investigation into how evidentiality (the source of information) is encoded in Uzbek verbs and its lack of direct grammatical equivalent in English.

Analytical Procedures and Typological Classification

The collected data will be subjected to rigorous analytical procedures to facilitate typological comparison.

Data Annotation and Tagging: The corpus data will be annotated for verbal categories and their associated morphological and syntactic features. This can involve manual annotation or semi-automated tagging using linguistic software.

Qualitative Analysis: In-depth qualitative analysis of selected verb constructions will be performed to uncover subtle semantic and pragmatic differences. This involves detailed case studies of specific verbs and their usage patterns.

Quantitative Analysis: Frequency counts of different verbal forms, constructions, and categories will be conducted to identify dominant patterns and statistical preferences in each language. This can involve calculating the relative frequency of active vs. passive voice, or the usage of different aspectual markers.

Contrastive Analysis: Direct comparison of equivalent sentences or phrases from the parallel corpus will be central to identifying how English and Uzbek achieve similar meanings using their distinct verbal systems. This involves mapping structures and functions across languages.

Typological Mapping: The findings will be mapped onto established typological parameters (e.g., head-marking vs. dependent-marking, analytic vs. synthetic tendencies) to situate English and Uzbek within broader linguistic typologies. This will involve

discussing whether a language predominantly uses affixes (synthetic) or separate words (analytic) to express grammatical meaning, and how this applies to their verbal systems.

Identification of Isomorphism and Allomorphy: The analysis will seek to identify instances of isomorphism (similar forms/structures expressing similar meanings) and allomorphy (different forms/structures expressing similar meanings) between the two languages' verb systems.

Challenges and Limitations

Conducting comparative-typological research between typologically distant languages like English and Uzbek presents several inherent challenges:

Non-Isomorphic Categories: Direct one-to-one mapping of grammatical categories is rarely possible. For instance, a single English tense might correspond to multiple Uzbek tense-aspect forms, and vice-versa.

Cultural and Conceptual Differences: Underlying cultural and conceptual frameworks can influence how verbal meanings are encoded, requiring careful interpretation to avoid imposing one language's categories onto another.

Corpus Representativeness: Ensuring that the corpus adequately represents the full range of verbal phenomena in both languages is crucial and can be challenging.

Researcher Bias: The researcher's native language and linguistic training can unconsciously influence the analysis, necessitating a conscious effort towards objectivity and inter-rater reliability where possible.

Data Ambiguity: Linguistic data, especially from naturalistic texts, can be inherently ambiguous, requiring careful contextual analysis and potentially native speaker consultation.

Despite these challenges, a rigorous methodological approach, combined with a deep understanding of both languages, can mitigate these limitations and yield valuable insights.

Structure of the Analysis and Expected Outcomes

The main body of the article will present the findings organized by the levels of analysis (morphological, syntactic, semantic) and the parameters of comparison. Each section will provide illustrative examples from the corpus, followed by a detailed comparative discussion. Tables and diagrams will be used to visually represent typological differences and similarities. The expected outcomes of this research include: A detailed description of the verbal systems of English and Uzbek from a comparative-typological perspective. Identification of key typological divergences and convergences in their verb morphology, syntax, and semantics. A refined methodological framework for cross-linguistic verb comparison. Insights into the broader implications for linguistic theory, language acquisition, and translation studies. By systematically applying this methodology, this research aims to provide a comprehensive and nuanced understanding of how English and Uzbek, despite their typological differences, achieve similar communicative goals through their distinct yet equally complex verbal systems.

3. Results and Discussion

The results of the comparative-typological analysis of English and Uzbek verbs reveal significant structural and functional divergences, as well as areas of convergence that offer insights into universal linguistic principles. Morphologically, Uzbek verbs display agglutinative patterns characterized by the extensive use of suffixes to express tense, aspect, mood, and voice, while English employs a combination of inflectional changes and auxiliary constructions. For example, where English uses "is eating" to mark the present progressive aspect, Uzbek uses a synthetic form like "yeyapti." This structural difference highlights Uzbek's synthetic nature in contrast to English's analytic typology. Syntactically, English relies heavily on word order and auxiliary verbs for expressing

grammatical relations and verbal nuances, whereas Uzbek allows greater flexibility due to its case-marking system and the rich derivational capacity of its verbs. In terms of valency, English and Uzbek both exhibit transitive, intransitive, and ditransitive verb constructions, but differ in how argument structures are encoded—Uzbek often modifies valency through suffixation (e.g., causatives), while English typically relies on syntactic reordering or the addition of auxiliaries.

Semantically, both languages exhibit robust systems for expressing tense, aspect, and modality, though they differ in granularity and structural realization. English distinguishes fine-grained temporal and aspectual differences through the use of auxiliaries and participles, whereas Uzbek integrates temporal information into single verbal forms. This can result in semantic asymmetries where equivalent meanings are expressed through structurally different means. Furthermore, Uzbek shows a richer morphological expression of mood and evidentiality, often using suffixes to indicate whether the speaker witnessed an action, a feature largely absent in English. The discussion also highlights the challenges of establishing one-to-one correspondences between verbal categories. While there are cases of isomorphism, such as the clear alignment of certain tenses, many categories are allomorphic—manifested differently across the two languages. For example, English uses modal verbs like “can” or “must” to express ability or obligation, while Uzbek may use suffixes or entirely different lexical verbs for the same function.

From a methodological standpoint, the study confirms the effectiveness of using a parallel corpus combined with native speaker elicitation for capturing nuanced usage patterns. The combination of quantitative frequency data and qualitative semantic analysis allowed for the identification of typological patterns that might otherwise remain obscured. The mapping of English and Uzbek verb systems onto typological classifications—such as analytic vs. synthetic and head-marking vs. dependent-marking—provides a comprehensive framework for cross-linguistic comparison. These findings underscore the importance of a multidimensional approach in typological studies that accounts for morphology, syntax, and semantics in tandem. The practical implications of these results extend to improved language pedagogy, where knowledge of cross-linguistic differences can aid in curriculum design and error correction. Similarly, in translation and machine learning contexts, the findings support the development of more accurate translation models that consider underlying structural and semantic disparities between languages. Ultimately, this study demonstrates that while English and Uzbek differ markedly in their verbal systems, they converge in their communicative goals, illustrating the adaptability of human language in expressing core grammatical functions through diverse linguistic means.

4. Conclusion

This comparative-typological study has meticulously examined the methods and methodologies employed in analyzing the verbal systems of English and Uzbek languages. Through a comprehensive exploration of their morphological, syntactic, and semantic characteristics, this research has illuminated both the shared universal linguistic principles and the distinct typological features that differentiate these two languages. We have demonstrated that a multi-faceted approach, integrating structural, functional, and cognitive perspectives, is indispensable for a profound understanding of verbal categories across disparate linguistic families. The application of methods such as contrastive analysis, componential analysis, and distributional analysis has allowed for the identification of significant parallels and divergences in verb conjugation, tense-aspect systems, mood, voice, and valency patterns. Furthermore, the methodology adopted here, emphasizing a systematic comparison at various linguistic levels, has proven effective in revealing the underlying mechanisms of verbal expression in both English and Uzbek.

The findings of this research not only contribute to the theoretical understanding of linguistic typology and universal grammar but also hold significant practical implications. For language pedagogy, these insights can inform more effective second language acquisition strategies, particularly in addressing common errors stemming from cross-linguistic interference. In translation studies, a nuanced understanding of verbal equivalences and non-equivalences is crucial for achieving accuracy and naturalness. Moreover, for computational linguistics and natural language processing, the typological data derived from this study can aid in the development of more robust machine translation systems and language models. In conclusion, the comparative-typological investigation of English and Uzbek verbs underscores the richness and diversity of human language while simultaneously highlighting the common cognitive foundations that underpin linguistic structures. Future research could expand upon this foundation by incorporating diachronic perspectives, exploring the influence of language contact, or extending the comparative scope to include other Turkic and Indo-European languages, thereby further enriching our understanding of verbal typology.

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