



ЧЕЛЯБИНСКИЙ ГОСУДАРСТВЕННЫЙ  
ИНСТИТУТ КУЛЬТУРЫ

**ONLINE  
CONFERENCE**

**"INNOVATIVE  
ACHIEVEMENTS  
IN SCIENCE 2024 "**

**INTERNATIONAL SCIENTIFIC-ONLINE  
CONFERENCE**



ЧЕЛЯБИНСКИЙ ГОСУДАРСТВЕННЫЙ  
ИНСТИТУТ КУЛЬТУРЫ

**"INNOVATIVE ACHIEVEMENTS IN SCIENCE 2024"**



**"INNOVATIVE  
ACHIEVEMENTS IN SCIENCE  
2024"**

Part 35

Issue 1

**RUSSIA 2024  
COLLECTIONS OF SCIENTIFIC WORKS**



## "INNOVATIVE ACHIEVEMENTS IN SCIENCE 2024"

**INNOVATIVE ACHIEVEMENTS IN SCIENCE 2024:** a collection scientific works of the International scientific conference (27<sup>th</sup> December, 2024) – Chelyabinsk, Russia : "CESS", 2024. Part 35, Issue 1 – 187 p.

### **Editorial board:**

**Martha Merrill**, PhD Kent State University, USA

**David Pearce**, ScD Washington, D.C., USA

**Emma Sabzalieva**, PhD Toronto, Canada

**Languages of publication:** русский, english, казахша, o'zbek, limba română, кыргыз тили, Հայերեն

The collection consists of scientific research of scientists, graduate students and students who took part in the International Scientific online conference " **INNOVATIVE ACHIEVEMENTS IN SCIENCE 2024**". Which took place in Chelyabinsk on December 27, 2024.

Conference proceedings are recommended for scientists and teachers in higher education establishments. They can be used in education, including the process of post - graduate teaching, preparation for obtain bachelors' and masters' degrees. The review of all articles was accomplished by experts, materials are according to authors copyright. The authors are responsible for content, researches results and errors.

© "CESS", 2024

© Authors, 2024



## "INNOVATIVE ACHIEVEMENTS IN SCIENCE 2024"

<b>ЖЕНЩИН РЕПРОДУКТИВНОГО ВОЗРАСТА</b>	
<b>М.А.Хайдаров</b> <i>НОРАЦИОНАЛ ОҚСИЛ ЮКЛАМАЛИ ОВҚАТЛАНИШДА ТЕРИ ВА УНИНГ ХОСИЛАЛАРИДАГИ ЎЗГАРИШЛАР</i>	<b>75</b>
<b>Кувватова Шахло Чориевна</b> <i>ВЫРАЖЕНИЕ ПОДРОСТКОВОЙ ТЕМЫ В СОВРЕМЕННОЙ ЛИТЕРАТУРЕ</i>	<b>77</b>
<b>Б.К. Султанов</b> <b>Б.К. Туремуратова</b> <b>Б.Б. Айтмуратов</b> <i>ОБЗОР ИССЛЕДОВАНИЙ В ОБЛАСТИ ПРИМЕНЕНИЯ АЭРОКОСМИЧЕСКИХ СНИМКОВ ДЛЯ МОНИТОРИНГА ТЕРРИТОРИАЛЬНЫХ ОБЪЕКТОВ НА ОСНОВЕ ДИСТАНЦИОННОГО ЗОНДИРОВАНИЯ ЗЕМЛИ</i>	<b>80</b>
<b>Botirova Dildora Fahridin qizi</b> <i>PSIXOLOGNING ETIK VA PROFESSIONAL ME'YORLARI</i>	<b>86</b>
<b>O'rinboyev O.Y</b> <b>Eshonqulov S.Sh</b> <i>XITOZAN SUKSINAT IMMUNOSTIMULYATORI</i>	<b>92</b>
<b>O.A.Sodikova</b> <i>VIRTUAL JAMOADA ISHLASH KO'NIKMALARINI RIVOJLANTIRISHNING MOHIYATI VA MAZMUNI</i>	<b>97</b>
<b>Bozorboyeva Barchinoy Madrahim qizi.</b> <i>PSIXOLOGNING AXLOQIY XULQI:SOHA VA MAMLAKATLARARO FARQLAR.</i>	<b>101</b>
<b>Rasulov Zubaydullo Izomovich</b> <b>Oripova Sabrina Jalol qizi,</b> <i>FACTORS THAT INFLUENCE LANGUAGE DEVELOPMENT</i>	<b>104</b>
<b>Bozarboyeva Xurshida Nuraliyevna</b> <i>MAKTABGACHA YOSHDAGI BOLALARNING TO'G'RI OVQATLANISH RATSIONI</i>	<b>109</b>
<b>A'zamova Muhlisaxon A'zam qizi</b> <i>DARSDA MUSIQA SAVODINING NAZARIY BILIMLARNI TARKIB TOPTIRISHINI RIVOJLANTIRISH</i>	<b>114</b>
<b>Aliyev Doniyor Soibjon o'g'li</b> <b>Abdubannova Sevara Maxsitali qizi</b> <i>ASSESSMENT OF THE INFLUENCE OF MODERN ANTI-EPILEPTIC DRUGS ON THE QUALITY OF LIFE OF PATIENTS WITH EPILEPSY</i>	<b>120</b>
<b>Tursunova Feruza</b>	<b>124</b>



## FACTORS THAT INFLUENCE LANGUAGE DEVELOPMENT

**Rasulov Zubaydullo Izomovich**

*Doctor of Science, Professor*

*Bukhara state universiteti, Bukhara, Uzbekistan*

*ORCID ID 0000-0003-0554-1319*

**Oripova Sabrina Jalol qizi,**

*I year student of master degree*

**Abstract.** *This thesis explores the various factors that influence language development, focusing on phonetic, morphological, socio-cultural, and cognitive elements. It examines how these factors shape the evolution of languages, contributing to communicative efficiency and clarity. By analyzing these elements, the study provides a comprehensive understanding of the dynamic interplay between economy and redundancy in language development.*

**Keywords.** *Language development, linguistic economy, redundancy, phonetic changes, morphological simplification, socio-cultural factors, cognitive economy, communicative clarity, linguistic evolution.*

### INTRODUCTION

Language development is a multifaceted process influenced by a variety of factors. These elements not only shape the structure and function of languages but also determine their adaptability and evolution over time. This thesis aims to explore the primary factors that influence language development, focusing on phonetic and morphological efficiency, socio-cultural dynamics, and cognitive processes. By examining these elements, we can gain a deeper understanding of how languages balance the principles of economy and redundancy to achieve communicative clarity.

Phonetic changes play a crucial role in language development by simplifying sound patterns to reduce effort and enhance efficiency. Vowel reduction and consonant clusters are common phonetic adaptations that streamline speech. These changes reflect a natural inclination towards minimizing articulatory effort while maintaining intelligibility. André Martinet discusses the concept of phonetic economy, illustrating how languages simplify sound patterns to reduce effort and



## "INNOVATIVE ACHIEVEMENTS IN SCIENCE 2024"

enhance efficiency.<sup>1</sup> The reduction of redundant sounds over time demonstrates the balance between phonetic economy and the need for clear communication.

Phonetic changes are not merely about reducing effort; they also reflect deeper linguistic and psychological processes. The tendency to simplify speech patterns can be linked to the cognitive load theory, which posits that the human brain aims to reduce unnecessary cognitive effort. This suggests that phonetic simplifications are driven by an innate desire to make communication more efficient and less taxing on cognitive resources.

Moreover, phonetic changes often result in the creation of new phonological rules. For example, vowel harmony in Turkish and Uzbek not only simplifies pronunciation but also creates a more harmonious and predictable sound pattern, facilitating easier acquisition and processing of language. This demonstrates the dual role of phonetic changes in enhancing both articulatory ease and cognitive accessibility. Jo'liboy Eltazarov highlights how vowel harmony and other phonetic reductions simplify speech patterns without sacrificing intelligibility.<sup>2</sup>

Morphological simplification is another significant factor influencing language development. Languages reduce morphological complexity by simplifying inflectional systems and adopting more transparent morphological structures. R.A. Budagov explores the impact of morphological economy on language development, arguing that the principle of economy drives the simplification of morphological elements, making languages more efficient and easier to use.<sup>3</sup>

Morphological simplifications serve to streamline communication by making grammatical structures more predictable and easier to learn. This is particularly evident in the shift from synthetic to analytic structures in many languages. Synthetic languages, which use inflections to convey grammatical relationships, often evolve towards more analytic structures where word order and auxiliary verbs assume greater importance. This shift enhances clarity and reduces ambiguity, making the language more accessible to speakers and learners alike. G.A. Curme discusses how languages reduce morphological complexity to enhance communicative efficiency.<sup>4</sup>

Furthermore, the use of contractions and abbreviations reflects a broader trend towards morphological economy. For example, the contraction "I'm" in English

---

<sup>1</sup> Martinet A. Economy of Phonological Changes: A Diachronic Phonology Treatise. — Editions A. Francke S.A., 1955. — p.78

<sup>2</sup> Eltazarov J. Tildagi tejamlilik tamoyili va qisqaruv, 2005. — p.45-48

<sup>3</sup> Budagov R. A. Does the principle of economy determine the development and functioning of language? 1985. — p.112-116

<sup>4</sup> Curme G.A. Grammar of the English Language. — D.C. Heath and Company, 1931. — p.134-138



## "INNOVATIVE ACHIEVEMENTS IN SCIENCE 2024"

simplifies the longer "I am," reducing effort while maintaining meaning. This morphological economy is essential for effective communication in fast-paced environments where brevity and clarity are paramount.

The simplification of morphological structures also aligns with the principle of communicative efficiency. By reducing the complexity of grammatical markers, languages become more adaptable and easier to use in diverse communicative contexts. This flexibility is crucial for the survival and evolution of languages in a rapidly changing world.

Cultural practices and social dynamics significantly shape language development. The interaction between language and culture is evident in how languages adapt to the values, beliefs, and practices of their speakers. Edward Sapir emphasizes the influence of cultural traditions on language structures and usage, showing how languages adapt to cultural contexts.<sup>5</sup>

Language is a reflection of the culture in which it is embedded. Cultural practices, beliefs, and values shape not only the vocabulary of a language but also its grammar and phonology. For instance, languages spoken in collectivist cultures often have elaborate honorific systems that reflect social hierarchies and relationships. This cultural influence on language structure demonstrates the deep interconnection between language and social identity.

Societal changes, such as urbanization and globalization, further drive linguistic evolution. Urbanization often leads to the development of simplified language forms as speakers in densely populated areas seek efficient means of communication. Similarly, globalization fosters the spread of lingua francas, which prioritize brevity and universality to accommodate diverse speakers. E.D. Polivanov examines how urbanization and globalization impact linguistic efficiency, highlighting how social changes drive the evolution of languages.<sup>6</sup>

Historical events also play a crucial role in language development. Conquests, migrations, and trade introduce new vocabulary, grammatical structures, and phonological patterns. For example, the Norman Conquest significantly influenced the English language, introducing numerous French loanwords and contributing to the evolution of English from a synthetic to a more analytic language. These socio-cultural factors underscore the dynamic and adaptive nature of language, demonstrating how external influences shape linguistic evolution.

---

<sup>5</sup> Sapir E. Language: An Introduction to the Study of Speech. — Harcourt, Brace and Company, 1921. — p.45-50

<sup>6</sup> Polivanov E.D. Задачи социальной диалектологии русского языка, 1928. — p.89-92



## "INNOVATIVE ACHIEVEMENTS IN SCIENCE 2024"

Cognitive factors are crucial in determining how languages develop and evolve. The human brain seeks to optimize information processing by minimizing cognitive effort, which influences the simplification of linguistic structures. This principle of cognitive economy is evident in the way languages reduce inflectional forms and streamline syntactic patterns.

Redundancy in language also supports cognitive processes by providing additional cues for comprehension. Repeated phrases, redundant morphological markers, and auxiliary verbs help listeners and readers parse sentences more easily, reducing cognitive effort. Otto Jespersen explores how redundancy ensures communicative clarity, even in complex or noisy environments, highlighting the importance of redundant elements in maintaining language stability and comprehensibility.<sup>7</sup>

The interaction between cognitive processes and linguistic structures highlights the importance of understanding language development as a dynamic interplay of internal and external factors. Cognitive efficiency and communicative clarity are achieved through the continuous adaptation of linguistic forms to the cognitive capabilities of speakers and listeners. This balance between economy and redundancy ensures that languages remain both efficient and expressive, capable of conveying complex ideas and emotions with clarity.

**Conclusion.** In conclusion, language development is influenced by a complex interplay of phonetic, morphological, socio-cultural, and cognitive factors. These elements shape the structure and function of languages, driving their evolution and adaptability. By balancing the principles of economy and redundancy, languages achieve communicative clarity and efficiency, ensuring their continued relevance and utility. Understanding these factors provides valuable insights into the dynamic and multifaceted nature of linguistic evolution.

### REFERENCES:

1. Budagov R.A. Does the principle of economy determine the development and functioning of language? 1985. — p.112-116
2. Curme G.A. Grammar of the English Language. — D.C. Heath and Company, 1931. — p.134-138.
3. Eltazarov J. Tildagi tejamlilik tamoyili va qisqaruv, 2005. — p.45-48

---

<sup>7</sup> Jespersen O. The Philosophy of Grammar. — Allen and Unwin, 1924. — p.94-98





## "INNOVATIVE ACHIEVEMENTS IN SCIENCE 2024"

---

4. Jespersen O. The Philosophy of Grammar. – Allen and Unwin, 1924. – p.94-98.
5. Martinet A. Economy of Phonological Changes: A Diachronic Phonology Treatise. – Editions A. Francke S.A., 1955. – p.78
6. Sapir E. Language: An Introduction to the Study of Speech. Harcourt. – Brace and Company, 1921. – p.45-50.
7. Polivanov E.D. Задачи социальной диалектологии русского языка. 1928 – p.89-92.