

**ARTIFICIAL INTELLIGENCE AND THE EVOLUTION OF ECONOMIC
TERMINOLOGY****Ruzieva Gulkhayo Bahkri kizi**

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E-mail: ruziyevagulkhayo@gmail.com**Abstract**

The rapid integration of artificial intelligence (AI) into economic systems has significantly influenced not only economic practices but also the terminology used to describe them. This study examines how AI contributes to the evolution of economic terminology, focusing on lexical innovation, semantic shifts, and the standardization of new terms. Using a qualitative and corpus-based approach, the research analyzes contemporary economic texts, policy documents, and AI-generated materials to identify emerging linguistic patterns. The findings demonstrate that AI accelerates terminology creation, reshapes existing economic concepts, and promotes interdisciplinary lexical borrowing. The study highlights the importance of linguistic analysis in understanding how technological transformation impacts economic discourse and sustainable development.

Keywords

artificial intelligence, economic terminology, semantic shift, corpus linguistics, discourse analysis, innovation, sustainability

Annotatsiya

Sun'iy intellekt (SI) ning iqtisodiy tizimlarga jadal integratsiyalashuvi nafaqat iqtisodiy amaliyotlarni, balki ularni ifodalash uchun qo'llaniladigan terminologiyani ham sezilarli darajada o'zgartirdi. Mazkur tadqiqot sun'iy intellektning iqtisodiy terminologiya evolyutsiyasidagi rolini, xususan, leksik innovatsiya, semantik siljishlar hamda yangi paydo bo'layotgan terminlarning standartlashuvi jarayonlarini o'rganadi. Sifat va korpusga asoslangan metodologiyadan foydalangan holda, tadqiqot zamonaviy iqtisodiy matnlar, siyosiy-huquqiy hujjatlar hamda SI tomonidan yaratilgan materiallarni tahlil qilib, yuzaga kelayotgan lingvistik naqshlarni aniqlaydi. Natijalar shuni ko'rsatadiki, sun'iy intellekt yangi terminlarning yaratilishini tezlashtiradi, mavjud iqtisodiy tushunchalarning ma'nosini o'zgartiradi hamda fanlararo leksik o'zlashuvni rag'batlantiradi. Tadqiqot texnologik transformatsiyaning iqtisodiy diskursga ta'sirini hamda barqaror rivojlanishga qo'shayotgan hissasini anglashda lingvistik tahlilning muhimligini ta'kidlaydi.

Kalit so'zlar

sun'iy intellekt; iqtisodiy terminologiya; semantik siljish; korpus lingvistikasi; diskurs tahlili; innovatsiya; barqarorlik

1. Introduction

Technological advancement has always influenced language development, particularly in specialized domains such as economics. The emergence of **Artificial Intelligence** has introduced new mechanisms for data processing, decision-making, and communication, fundamentally transforming economic management. As economies adopt AI-driven systems, new concepts require new terminology, while existing terms undergo semantic expansion or redefinition.

Economic discourse increasingly includes expressions such as “algorithmic governance,” “digital assets,” “predictive analytics,” and “automated decision-making.” These terms reflect not only technological change but also shifts in conceptual frameworks. The relationship between AI and economic terminology is therefore both practical and linguistic.

This study aims to explore how AI influences the evolution of economic terminology by addressing the following research questions:

1. How does AI contribute to the creation of new economic terms?
2. What semantic transformations occur in existing terminology?
3. How does AI affect the standardization and global dissemination of economic vocabulary?

Understanding these processes is essential for improving clarity, efficiency, and sustainability in economic communication.

2. Methods

This research employs a mixed qualitative methodology combining corpus analysis and discourse analysis.

2.1 Data Collection

A specialized mini-corpus was compiled consisting of:

- International economic policy reports (2020–2025)
- Academic journal articles on AI and economics
- AI-generated economic texts (produced by large language models)
- Financial news articles discussing AI-driven management

The corpus includes approximately 150,000 words of contemporary economic discourse.

2.2 Analytical Framework

The study applies:

- **Corpus Linguistics** methods to identify high-frequency emerging terms
- **Semantic analysis** to trace meaning shifts in traditional economic vocabulary
- **Critical Discourse Analysis (CDA)** to examine how AI-related terminology

frames innovation and sustainability

Lexical items were categorized into:

1. Neologisms (e.g., “fintech ecosystem,” “data economy”)
2. Semantic extensions (e.g., “intelligence,” “automation”)
3. Hybrid interdisciplinary terms (e.g., “algorithmic market regulation”)

3. Results

The analysis revealed three major patterns in the evolution of economic terminology under AI influence.

3.1 Lexical Innovation

AI accelerates the production of neologisms. Terms such as “AI-driven economy,” “smart contracts,” and “digital governance” show increased frequency after 2020. Many of these terms combine technological and economic lexemes, reflecting interdisciplinary convergence.

3.2 Semantic Shift

Traditional economic terms have expanded in meaning. For example:

- “Capital” now includes “data capital.”
- “Labor” extends to “digital labor.”
- “Market” incorporates “platform-based ecosystems.”

These semantic shifts demonstrate conceptual transformation influenced by AI technologies.

3.3 Standardization and Globalization

AI-based translation systems and automated content generation tools contribute to the rapid international spread of terminology. Economic vocabulary becomes more standardized across languages due to machine translation and global digital communication.

Additionally, AI-generated texts tend to favor concise, data-oriented, and efficiency-focused terminology, reinforcing narratives of innovation and optimization.

4. Discussion

The findings confirm that AI plays a significant role in reshaping economic terminology. Linguistically, this process reflects:

- Increased interdisciplinarity
- Rapid lexical diffusion
- Greater emphasis on efficiency and sustainability

AI not only introduces new terms but also influences how economic reality is conceptualized. For instance, describing governance as “algorithmic” shifts the perception of decision-making from human-centered to system-centered processes.

From a philological perspective, the evolution of economic terminology demonstrates how language adapts to technological innovation. However, challenges arise, including:

- Terminological ambiguity
- Overreliance on English-dominated vocabulary
- Ethical implications embedded in seemingly neutral terms

The study suggests that linguistic monitoring of AI-related terminology is essential for ensuring clarity, inclusivity, and transparency in global economic governance.

5. Conclusion

Artificial intelligence significantly accelerates the evolution of economic terminology through lexical innovation, semantic transformation, and global standardization. As AI continues to shape economic management and sustainable development strategies, language will remain a critical tool for conceptualizing and communicating these changes.

Future research may expand corpus size, compare multilingual data, and explore the role of AI in shaping policy narratives. Understanding the linguistic dimension of technological change is crucial for enhancing effective and sustainable economic communication.

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