

# ABSTRACT

Graduation Level Proficiency Paper

(Master's degree)

**Title:** The Cognitive-Linguistic Basis of the Generation of English Texts in the Internet

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**Research Initiator:** PSU

**Topical importance:** The relevance of the research topic is determined by the needs for interpretation and detection of data provided by the products of modern information technologies.

**Goals:** the detection of cognitive-linguistic foundations in modern information technologies, in particular, in the process of generating Internet text, and an analysis of their practical significance.

**Tasks:**

- To analyze and systematize current research in cognitive linguistics
- To discover the connection of cognitive science with formal theories, in particular, with distributive semantics, and to reveal the philosophical and theoretical prerequisites for the synthesis of these areas of research and their applied potential
- To analyze modern technologies and approaches to the generation of online text, taking into account coherence, cohesion, extralinguistic factors influencing its formation.
- To generate a model of latent semantic analysis and interpret the results of its work from a cognitive-linguistic position

**Theoretical applicability** of the research lies in the applied potential of understanding the cognitive-linguistic bases of the generation of text content for users and authors as subjects of humanitarian knowledge.

**Results:** The results obtained contribute to better understanding of cognitive-linguistic theories, which are the basis of modern information technologies, and their applied aspect are established. On the set of English-language texts and the model of latent-semantic analysis generated in the course of the study, the results of the model were analyzed from cognitive-linguistic positions to detect latent topics.

**Implementation advice:**

- When forming text content of developed websites, one should pay attention to thematic and keywords.

- One should determine the latent-semantic potential of textual content using the utility, the program code of which is presented in the application section of the graduation qualification work
- One should optimize the generation of text content taking into account the results of the work of the model of latent-semantic analysis in a given subject domain