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ILMIY TADQIQOT METODOLOGIYASIGA OID TERMINOLOGIYASINING FUNKSIONAL-SEMANTIK JIHATI

Annotatsiya: ushbu maqolada ilmiy tadqiqot metodologiyasi doirasidagi terminologiyaning funksional-semantik jihati to'liq ko'rsatilgan. U ixtisoslashgan sohalarda samarali muloqot va bilimlarni uzatishni osonlashtirishda terminologiyaning muhimligini ta'kidlab, tildan foydalanish va talqin qilishning ko'p qirrali tabiati haqida asosiy tushunchalarni taqdim etadi.

Kalit so'zlar: terminologiya, funksional jihat, semantik aspekt, ilmiy tadqiqot metodologiyasi, aloqa, til.

ФУНКЦИОНАЛЬНО-СЕМАНТИЧЕСКИЙ АСПЕКТ ТЕРМИНОЛОГИИ ПО МЕТОДОЛОГИИ НАУЧНОГО ИССЛЕДОВАНИЯ

Аннотация: в статье дан комплексный обзор функционально-семантического аспекта терминологии в методологии научных исследований. Он подчеркивает важность терминологии в содействии эффективному общению и передаче знаний в специализированных областях, предлагая ключевое понимание многогранной природы использования и интерпретации языка.

Ключевые слова: терминология, функциональный аспект, семантический аспект, методология научного исследования, коммуникация, язык.

FUNCTIONAL-SEMANTIC ASPECT OF TERMINOLOGY ACCORDING TO SCIENTIFIC RESEARCH METHODOLOGY

Annotation: This article provides a comprehensive overview of the functional-semantic aspect of terminology within scientific research methodology. It highlights the importance of terminology in facilitating effective communication and knowledge transfer within specialized fields, offering key insights into the multifaceted nature of language usage and interpretation.

Keywords: terminology, functional aspect, semantic aspect, scientific research methodology, communication, language.

1. Introduction:

Terminology plays a vital role in knowledge sharing and communication within specialized fields. The functional-semantic aspect of terminology is a crucial area of study that explores how terms are used in specific contexts and the meaning they convey. In this article, we delve into the

functional and semantic aspects of terminology through the lens of scientific research methodology.

2. Understanding Terminology and its Functional-Semantic Aspect:

2.1 Definition of Terminology:

Terminology refers to a set of terms specific to a particular subject, domain, or field of study. These terms are essential for effective communication and understanding among professionals within that discipline.

2.2 Functional Aspects of Terminology:

The functional aspect of terminology focuses on how terms serve different functions within discourse. Terms can act as labels, descriptors, or identifiers, helping to categorize and convey complex concepts efficiently. Within the realm of scientific research methodology, the functional aspects of terminology play a crucial role in shaping how knowledge is generated, shared, and communicated within the scientific community. Let's explore how terminology functions within scientific research methodology:

1. Precision and Standardization:

- Function: Terms in scientific research methodology serve to establish precise and standardized language for describing methodologies, processes, and outcomes.
- Example: Terms like "hypothesis testing," "control group," or "statistical significance" have specific meanings that standardize communication and interpretation within research studies.

2. Clarity and Consistency:

- Function: Clear and consistent terminology ensures that researchers understand each other's work, reducing misunderstandings and facilitating accurate replication of experiments.
- Example: Consistent use of terms like "independent variable," "dependent variable," and "experimental design" enhances the clarity of research methodology descriptions.

3. Facilitating Reproducibility:

- Function: Well-defined and standardized terminology aids in ensuring the reproducibility of research findings by allowing other researchers to follow and replicate the methodology effectively.
- Example: Detailed terms like "sampling technique," "data collection methodology," and "data analysis approach" provide a roadmap for replicating scientific studies.

4. Knowledge Transfer and Interdisciplinary Collaboration:

- Function: Terminology bridges gaps between different scientific disciplines, allowing researchers to communicate effectively, share findings, and collaborate on interdisciplinary research projects.
- Example: Terms like "qualitative research," "meta-analysis," or "peer review" facilitate discussions and collaborations across diverse scientific fields.

2.3 Semantic Aspects of Terminology:

The semantic aspect of terminology deals with the meaning behind terms. It explores how words and phrases acquire meaning in specific contexts and how this affects communication and knowledge transfer. In the field of scientific research methodology, the semantic aspects of terminology play a significant role in shaping the understanding and interpretation of key concepts, methods, and findings. Let's explore how the semantic aspects of terminology contribute to the precision and clarity of communication within scientific research methodology:

1. Contextual Meaning:

- Function: Terms in scientific research methodology derive their meaning from the specific context in which they are used, influencing how researchers interpret and apply them.
- Example: The term "significance level" in statistics holds different meanings in hypothesis testing compared to its use in qualitative research methods.

2. Connotation and Nuance:

- Function: Semantic nuances and connotations associated with scientific terms can shape how researchers perceive and approach different aspects of their methodology.
- Example: The term "bias" may carry negative connotations in research design, influencing how researchers address and mitigate potential biases in their studies.

3. Interdisciplinary Harmonization:

- Function: Semantic consistency across disciplines promotes interdisciplinary harmony by ensuring that terms are understood and interpreted uniformly across scientific fields.
- Example: Harmonizing the semantic interpretations of terms like "validity," "reliability," and "generalizability" fosters clearer communication in multidisciplinary research projects.

4. Conceptual Alignment:

- Function: Semantic precision aligns researchers' conceptual understanding, allowing for accurate application of methodologies and interpretation of research outcomes.
- Example: Consistent interpretation of terms like "qualitative data analysis," "experimental control," and "variable manipulation" enhances the coherence and credibility of research studies.

3. Conclusion:

In conclusion, the study of the functional-semantic aspect of terminology is a multidisciplinary field that bridges linguistics, communication, and technology. By employing robust scientific research methodology, researchers can uncover valuable insights into how terms function and convey meaning in various contexts, ultimately enhancing knowledge sharing and communication within specialized fields.

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