Akademik Tarih ve Düşünce Dergisi

Academic Journal of History and Idea ISSN: 2148-2292 12 (3) 2025

Araştırma Makalesi | Research Article Geliş tarihi |Received:10.12.2024 Kabul tarihi |Accepted:10.03.2025 Yayın tarihi |Published:25.06.2025

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Atıf Künyesi | Citation Info

Sadiqova, S. (2025) Relevance of Bibliographic Search in the Global Information Environment and Its Evaluation Criteria. *Akademik Tarih ve Düşünce Dergisi, 12* (3), 31-45. *https://doi.org/10.5281/zenodo.15616925*

Relevance of Bibliographic Search in the Global Information Environment and Its Evaluation Criteria

Abstract

The effectiveness of bibliographic searches and the relevance of their results in the global information environment directly influence the quality of scientific activity and the proper use of information. This article analyzes the theoretical foundations of the relevance of bibliographic searches and their evaluation criteria. Various methodological approaches are presented in the context of modern information systems, the integration of artificial intelligence technologies, and dynamic approaches based on user needs. The article also classifies evaluation methods based on practical studies and authoritative scientific sources, and identifies development trends.

Keywords: Bibliographic Search, Information Retrieval, Relevance, Global Information Environment, Evaluation Criteria

Küresel Bilgi Ortamında Bibliyografik Aramanın Uygunluğu ve Değerlendirme Kriterleri

Öz

Bibliyografik taramaların etkinliği ve sonuçlarının küresel bilgi ortamında uygunluğu, bilimsel faaliyetlerin kalitesini ve bilginin doğru kullanımını doğrudan etkiler. Bu makale, bibliyografik aramaların



https://dergipark.org.tr/tr/pub/atdd

uygunluğunun teorik temellerini ve değerlendirme kriterlerini analiz etmektedir. Modern bilgi sistemleri, yapay zeka teknolojilerinin entegrasyonu ve kullanıcı ihtiyaçlarına dayalı dinamik yaklaşımlar bağlamında çeşitli metodolojik yaklaşımlar sunulmaktadır. Makale ayrıca, pratik çalışmalara ve yetkili bilimsel kaynaklara dayalı olarak değerlendirme yöntemlerini sınıflandırmakta ve gelişim eğilimlerini belirlemektedir.

Anahtar Kelimeler: Bibliyografik Arama, Bilgi Erişim, İlgililik, Küresel Bilgi Ortamı, Değerlendirme Ölçütleri

Introduction

In the 21st century, the rapid development of information and communication technologies has led to the formation of a global information environment. Key characteristics of this environment include an abundance of information, its high dynamism, its origin from diverse sources and formats, and the widespread expansion of digitalization. In the fields of research and education, bibliographic search systems have become the primary tools for effective information retrieval within this environment. However, the vast amount of information retrieved through these systems raises questions about its alignment with users' actual needs and objectives. In this context, the concept of "relevance" gains critical importance. Relevance is the key criterion that indicates the degree of correspondence between the retrieved information and the user's needs. In bibliographic searches, this concept is used to assess how well the search results respond to the user's query and how scientifically and practically useful they are. The scientific study and evaluation of the relevance criterion-aimed at enhancing the value, usability, and research efficiency of information—has become a core subject of investigation in this field. This article analyzes the bibliographic search process within the global information environment and systematizes the criteria, technologies, and methodological approaches used to evaluate search results. The goal is to identify optimal search models that ensure the retrieval of high-quality, purposeful information that best meets user needs. In the modern era, information retrieval-one of the main pillars of scientific and practical activity-is accompanied by extensive and multifaceted data resources. In such an environment, ensuring a high level of relevance in bibliographic search results is essential for users to obtain accurate and appropriate information that meets their needs. However, the lack of unified methodological approaches and the presence of varying interpretations across different systems highlight the need for in-depth research in this field to evaluate the effectiveness and relevance of such searches.

**Comparative analysis* – The relevance of search results across various information platforms was analyzed.

*Descriptive method – The concept of relevance and its historical development were described.

**Empirical approach* – The value of the results was assessed based on user queries and practical examples.

Scientometric methods – Citation rates and usage indicators of search results were examined.

1. The Main Part

*The Concept of Relevance and Its Theoretical Foundations

The concept of relevance is considered one of the core theoretical categories in the fields of information retrieval and access to information. It reflects the relationship between the user and information—in particular, the degree of alignment between the user's information need and the information presented. Relevance encompasses not only technical matching but also contextual and semantic correspondence (Ismailov, & Bayramova, 2022b).

Saracevic (1996) described relevance as a multidimensional phenomenon and categorized it into the following types and levels:

**System relevance* – whether a document available in the information system matches the user's query.

**Reference relevance* – the extent to which the document refers to other important documents (Ismayilov & Sadigova, 2022).

**Cognitive relevance* – the alignment of the document with the user's existing knowledge base and interests.

Situational relevance – the suitability of the document for solving a specific problem (Balginova, Maydangalieva, Satygalieva & Mahammadli, 2018).

**Motivational relevance* – the degree to which the document meets the user's goals.

Hjorland (2010) notes that relevance is shaped not only by the individual user experience but also by knowledge structures based on social and epistemological contexts (Heydar, 2023). According to him, information systems—including bibliographic databases—should aim not merely to present the content of information, but rather to deliver what is "noticeable and useful" to the user.

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The theoretical literature indicates that relevance possesses both a subjective character (dependent on the user) and an objective character (dependent on the content of the information). Therefore, achieving optimal results in search systems requires a balanced consideration of both perspectives (Sadigova & Mammadova, 2023).

*The Historical Development of Relevance Theory

The concept of relevance was first discussed in the 1950s–60s, during the formation of foundational theories of information retrieval systems (Gizi, 2021).

(Ismayilov, Ismayilov & Mammadova, 2019). In traditional schools of information science, various approaches to this concept existed:

**Classical Information Retrieval (Classical Approach)* – Relevance is determined by measuring the similarity between the text and the query. This approach is primarily based on mathematical and statistical models (e.g., Boolean model, vector model) (Sadygova, 2024).

**Cognitive Approach* – Starting from the 1980s, the impact of user behaviors, motivations, and psychological factors on relevance was studied. Researchers noted that the usefulness of information is determined not only by technical matching but also by its form of presentation (Askerova & Mammadov, 2025).

**Situational Relevance* – This approach, based on context, analyzes how relevant and valuable information is in a given situation (Ismayilov, 2022). These approaches throughout history show that the concept of relevance is not only technical or system-based but is also closely tied to the human factor.

**Types of Relevance*

Relevance is classified from various perspectives. The most common types are as follows:

a) System (Objective) Relevance

This is the technical evaluation of how well a document matches a query according to the criteria of the information system. It is often determined through automated methods (e.g., keyword matching).

b) User (Subjective) Relevance

This is the evaluation of the value of an information resource based on the user's personal needs, interests, and goals. It is related to individual experience and intent (Ismayilov & Khalafova, 2023).

c) Contextual Relevance

This refers to the alignment of information within the specific time, place, topic, and social context of the user. For example, an article may be highly relevant during a pandemic but lose its significance in another period.

d) Correlation and Semantic Matching

Sometimes, semantic relevance arises even if there is no formal similarity between texts (İsmayılov, Mahammadli & Gasimli, 2023a). For instance, synonyms or expressions with similar meanings may respond to the user's query.

Relevance Models and Criteria:

Various theorists and researchers have developed models to measure and classify the concept of relevance:

a) Saracevic Model

Saracevic defines relevance as "goal-oriented information." In this model, the alignment between the user's goal and the content of the information is the primary focus.

b) Mizzaro Model (1997)

In this model, relevance is evaluated across four dimensions: data, query, user, and time. The model takes into account that the user may change their query, and the results must be reevaluated accordingly.

c)Borlund's Interactive Model

Borlund notes that relevance is the result of an interactive process between the user and the system. As the user refines their needs and becomes familiar with new documents, the relevance evaluation changes.

d) TREC and Cranfield Criteria

These criteria are primarily used for system-based evaluation (Ismayilov, Mahammadli & Khudiyeva, 2022). Two main metrics are considered: precision and recall. These measure how accurate and complete the system's results are.

*Modern Approaches and the Role of Artificial Intelligence

In recent years, the concept of relevance has become more dynamic and adaptive through artificial intelligence (AI), natural language processing (NLP), semantic analysis, and modeling user behaviors. (Sadiqova, 2025).

*Personalized Relevance

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AI systems analyze the user's past search behavior, articles they have read, and links they have clicked to present more relevant results in the future. (Ismayilov & Aliyeva, 2023). This creates a relevance level tailored specifically to the user.

a) Semantic Web and Ontologies

By focusing on the semantic meaning of information, content relevance is proposed to the user. This ensures a deeper level of information relevance beyond simple keyword matching.

b) Citation Networks and Citation Analysis

The scientific relationship between documents is determined based on citations between articles. In this way, a stronger relevance connection can be established between cited and citing documents.

*Relevance and Scientific Research Activity:

In the scientific research process, relevance plays a crucial role. The literature used by researchers must address their research questions. Irrelevant resources can diminish the quality of the research. Therefore:

*Only relevant sources should be selected when preparing literature reviews;

*The information used to support hypotheses and conclusions must be current and accurate; (Ismayilov & Khalafova, 2022b).

*In managing references, only scientifically reliable and appropriate documents should be consulted. (Mammadov, 2013).

2. Bibliographic Search Systems and Technologies

Bibliographic search systems are specialized software and technology collections designed to meet the information needs of users in scientific, educational, and information activities. These systems allow searching across various information resources, such as library catalogs, scientific databases, article collections, and digital archives (Ismayılov & Khudiyeva, 2023). In the 21st century, where information is growing exponentially, the development of bibliographic search technologies and their integration with new technologies such as artificial intelligence and machine learning has become a necessity.

*The Essence and Functions of Bibliographic Search Systems

Bibliographic search systems provide users with the means to identify, select, and obtain information. These systems perform the following key functions:

**Access to Databases* – Allows users to find documents in various formats (books, articles, dissertations, conference materials, etc.);

**Advanced Search Options* – Enables searching by criteria such as author, topic, keywords, publication year, journal name, etc.; (İsmayılov & Məhəmmədli, 2024).

**Filtering and Sorting* – Ensures the results are sorted based on parameters like relevance, citation count, publication date, etc.;

**Literature Management* – Automatic generation of references, registration, and export functions (in formats such as BibTeX, RIS, APA, MLA).

Through these functions, bibliographic search systems significantly enhance the efficiency of scientific research and speed up the information retrieval process.

3. Most Commonly Used Bibliographic Search Systems

In the modern era, there are bibliographic search systems operating at various levels (international, national, and institutional):

a) Google Scholar

One of the most widely used open bibliographic search systems. It provides access to scientific articles, dissertations, monographs, and conference materials in multiple languages. (Ismayilov, Mahammadli & Gasimli, 2023b). It stands out for its user-friendly interface and citation tracking feature.

b) Scopus

This platform, owned by Elsevier, is one of the largest databases of scientific journals in the world. In addition to citation analyses, researcher profiles, and rankings, it is rich in bibliometric indicators.

c) Web of Science

Managed by Clarivate Analytics, this system covers articles published in high-quality journals. (Karabalina, Maydangalieva, Satygalieva, Ahmetalina & Mahammadli, 2018). It offers powerful analysis tools with sub-indexes such as the "Science Citation Index" and "Social Science Citation Index."

d) OpenAlex and BASE

These open-access systems support the free sharing of academic content. Users can freely access millions of bibliographic records (Mammadov, 2022b).

e) National and Regional Platforms

National systems such as the Azerbaijani National Library's bibliographic database, Russia's e-Library system, Turkey's ULAKBİM platform, and other national systems serve as essential resources for local users.

4. Technologies Used in Bibliographic Search

The effectiveness of bibliographic search systems depends on the technologies behind them. Modern systems use the following technologies:

a) Information Indexing

The structuring and indexing of information ensures fast and accurate searches. Metadata for each document (author, title, keywords, etc.) is added automatically or manually.

b) Natural Language Processing (NLP)

This technology "understands" user search queries and determines their intent. NLP-based systems consider synonyms, near-synonyms, and different lexical forms.

c) Artificial Intelligence and Machine Learning

AI-based systems learn user behaviors and present personalized results. Thanks to these technologies, systems can offer more relevant and effective responses. (Kazimi & Mahammadli, 2021).

d) Semantic Search

Unlike traditional keyword-based searches, semantic search analyzes the meaning of the text. This allows for obtaining broader and more contextual results.

e) Digital Identifiers (DOI, ORCID)

DOI (Digital Object Identifier) is used for the unique identification of documents. ORCID is a unique identifier for researchers, aggregating all their scientific activities.

5. Advantages and Challenges of Bibliographic Search Systems

Advantages

*Fast Information Retrieval – Thousands of documents can be searched and found within seconds (Mammadov, 2022a).

**Bibliometric Analysis Capabilities* – It is possible to evaluate documents based on citation counts, impact factors, and other indicators.

**Integration and Interoperability* – These systems work seamlessly with other scientific platforms and reference managers (e.g., Zotero, Mendeley).

**Promotion of Open Science* – The integration of Open Access resources facilitates the democratization of science. (Kushzhanov & Dashqin, 2019a).

Challenges:

Language Barriers – Most systems prioritize English-language resources, which can reduce the visibility of local and regional scientific work.

**Paid Content* – Many scientific databases require a subscription to access full-text documents. (Kenzhebayeva, Urmurzina & Mahammadli, 2018).

**Technical Skill Requirements* – Some systems require users to have technical expertise in order to conduct effective searches.

6. Future Perspectives

The future of bibliographic search systems is closely linked to artificial intelligence, big data analytics, and fully integrated scientific information ecosystems (Khalafova & Ismailov, 2024). In the future, these systems will:

*Expand automatic translation capabilities;

*Develop interfaces based on visual search and graphical analysis;

*Provide researchers with a personalized search experience through fully customized scientific profile systems; (Kushzhanov & Dashgin, 2019a).

*Evaluate the real public and academic impact of documents through social and scientometric integration.

7. Criteria for Evaluating Relevance in Bibliographic Search

In the modern information society, the effectiveness of bibliographic search processes is determined by evaluating how well the presented results match the information needs. This alignment is expressed by the concept of "relevance." Relevance refers to the degree to which the information meets the user's informational needs and aligns with their purpose (Kushzhanov & Mahammadli, 2019b). The effectiveness of bibliographic search is dependent not only on the search algorithms but also on the correct selection of evaluation criteria for the results.

*Precision

The precision criterion is a quality indicator for bibliographic search results. It defines howmany of the documents presented to the user are truly relevant and useful to the query (Mahamadli,2018).Itisexpressedbythefollowingformula:

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Precision = Number of useful documents / Total number of documents presented For example, if 100 results are presented to the user and 80 of them are relevant to the query, the precision is 80%. This criterion is particularly important for specific, narrowly defined queries. The higher the precision, the fewer "irrelevant" documents the user encounters (Ismayilov & Khalafova, 2022a).

*Recall

Recall is the criterion that shows how much of the relevant documents available in the information space are included in the search results: Recall = Number of relevant documents retrieved / Total number of relevant documents available

**For example*, if there are 200 relevant sources on a topic and 120 of them are retrieved in the search, the recall would be 60%. (Mahammadi, 2024). Recall is especially important for scientific research and systematic bibliographic investigations. A higher recall rate is crucial for researchers who wish to obtain comprehensive and in-depth information.

*Added Value

Bibliographic information is not only valued for being found but also for its ability to provide additional knowledge and value to the user. The added value criterion is measured by how the information allows the user to form a new scientific approach, take a more effective stance in decision-making, or contribute innovative insights to their research. (Məhəmmədli, 2024). This criterion plays a significant role, especially in academic activities where the analysis and use of information are in-depth.

*Currency

The relevance of the information to current scientific, technological, and social demands is of great importance. In dynamic fields like technology, medicine, and economics, outdated information may be useless. The currency criterion evaluates the relevance of the document based on its publication date, the degree of the topic's modernity, and its alignment with scientific trends (Muhammadli, 2023).

*Reliability

The reliability criterion reflects the level of acceptance of the document or source in the scientific community. For instance, an article published in a prestigious scientific journal holds different value from an informal blog post. (Nadir & Sevda, 2022). When evaluating this criterion,

the author's academic credentials, the source's impact factor, and the publisher's reputation should be considered.

*Citation Count and Impact Factor

The frequency with which a document is cited indicates its scientific importance. At the same time, the impact factor of the journal in which the document is published affects its credibility and the level of acceptance in the scientific community. (Qasımlı & Məhəmmədli, 2024a). This criterion is particularly important for determining the value of scientific research.

*User Satisfaction

This criterion is more subjective in nature. It measures how satisfied the user is with the presented results, based on how well the results meet their information needs (Qasımlı & Məhəmmədli, 2024b). This indicator can be determined through surveys, feedback forms, and the analysis of user behavior. User satisfaction is also dependent on the ease of use of the interface, the visualization of results, and the richness of alternative sources suggested.

Conclusion

Bibliographic search systems and technologies are an integral part of modern scientific activity. Their continuous development depends not only on technological innovations but also on user-oriented approaches. The more accessible, user-friendly, and analytically rich these systems are, the more they will contribute to the development of the information society.

The evaluation of relevance in bibliographic search is a multifaceted process. The criteria outlined above encompass technological (precision, recall), theoretical (reliability, added value), and subjective (user satisfaction) aspects. The combined application of these criteria is essential for achieving optimal results. This approach not only makes the results more relevant and useful but also contributes to the improvement of information search systems. In the global information environment, the growing abundance of information and the availability of scientific knowledge in various formats and sources make the bibliographic search process more complex.

One of the key conditions for the efficient organization of this process is that the search results have a high degree of relevance. Relevance refers not only to technical compatibility but also to the alignment with the user's goals, context, and intellectual needs. The analysis shows that modern bibliographic search systems aim to provide more relevant results through artificial intelligence, semantic technologies, and personalized recommendation algorithms. However, the

accurate formulation of search queries by users, the evaluation of results based on criteria, and purposeful filtering play a crucial role. In the future, the development of more advanced algorithms for the automatic evaluation of relevance indicators and the organization of training on information literacy for the use of bibliographic systems will be priority areas for the development of this field.

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