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## The Usage of Electronic Information Resources in Information Searching

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### Abstract:

*The emergence of electronic information resources has fundamentally transformed the processes of information creation, organization, retrieval, and utilization. In the digital age, information searching is increasingly dependent on electronic platforms such as online databases, digital libraries, electronic journals, institutional repositories, and web-based search engines. This article provides an in-depth examination of the usage of electronic information resources (EIRs) in information searching. It explores their meaning, evolution, types, importance, search strategies, benefits, challenges, and the role of information literacy in effective usage. The article also discusses the changing role of libraries and information professionals and highlights future trends shaping electronic information resources. By analyzing both opportunities and limitations, this study emphasizes the need for improved access, digital infrastructure, and user education to maximize the potential of electronic information resources in supporting research, education, and lifelong learning.*

**Keywords:** *Electronic Information Resources, Information Searching, Digital Libraries, Online Databases, Information Literacy, Electronic Journals*

### 1. Introduction:

Information is a vital resource for intellectual, social, and economic development. The way information is accessed and used has changed dramatically due to advances in information and communication technologies (ICTs). Traditional information sources such as printed books, journals, newspapers, and reference materials, although still relevant, are increasingly complemented or replaced by electronic information resources. These resources have revolutionized information searching by providing faster, broader, and more flexible access to knowledge.

Information searching refers to the systematic process of identifying, locating, and retrieving information to satisfy a specific need. In the past, this process relied heavily on physical libraries and manual search tools such as card catalogs and printed indexes. Today, electronic information resources

dominate information searching activities, enabling users to retrieve vast amounts of information within seconds.

The growing dependence on EIRs is evident in academic institutions, research organizations, government agencies, corporate environments, and even personal information-seeking behavior. However, the effective use of these resources requires not only technological infrastructure but also the skills to search, evaluate, and use information ethically. This article examines the usage of electronic information resources in information searching, focusing on their significance, applications, challenges, and future prospects

## **2. Meaning and Scope of Electronic Information Resources:**

Electronic Information Resources are information materials that are stored in digital formats and accessed through electronic devices such as computers, tablets, and smartphones. These resources are typically accessed via the internet or local networks and include both free and subscription-based content.

The scope of EIRs is broad and continues to expand as new technologies emerge. They support a wide range of information needs, from academic research and professional decision-making to entertainment and personal development. EIRs have become integral to modern knowledge systems because they facilitate instant access to information regardless of geographical location.

Electronic information resources differ from traditional print sources in several ways. They are dynamic, easily updated, searchable, and often interactive. Their integration with multimedia and hypertext features enhances user engagement and improves the efficiency of information searching.

## **3. Evolution of Electronic Information Resources:**

The development of electronic information resources can be traced back to the mid-twentieth century with the introduction of computerized databases and machine-readable records. Early online databases were primarily used by specialists and required technical expertise. With the advent of personal computers and the internet, access to electronic resources expanded significantly.

The growth of the World Wide Web in the 1990s marked a turning point in information searching. Libraries began subscribing to electronic journals and databases, and search engines made information more accessible to the general public. The emergence of digital libraries, open access initiatives, and cloud-based platforms further accelerated the adoption of EIRs.

Today, electronic information resources are supported by advanced technologies such as artificial intelligence, data analytics, and semantic web tools, which continue to enhance search accuracy and user experience.

## **4. Types of Electronic Information Resources:**

Electronic information resources are available in various forms, each serving different information needs:

#### **4.1 Electronic Journals:**

Electronic journals provide digital access to scholarly articles, research papers, reviews, and case studies. They are essential for academic and scientific research due to their peer-reviewed nature and timely publication.

#### **4.2 Electronic Books:**

E-books are digital versions of printed books that can be read on electronic devices. They offer features such as keyword searching, hyperlinks, annotation tools, and adjustable text size.

#### **4.3 Online Databases:**

Online databases organize large collections of bibliographic records, abstracts, and full-text documents. Examples include subject-specific and multidisciplinary databases that support advanced searching and systematic reviews.

#### **4.4 Digital Libraries:**

Digital libraries provide curated collections of electronic resources, including manuscripts, archival materials, images, audio, and video content. They preserve cultural heritage and support academic research.

#### **4.5 Search Engines:**

Search engines enable users to locate information on the web using keywords and algorithms. Academic search engines focus on scholarly content and are widely used in information searching.

#### **4.6 Institutional Repositories:**

Institutional repositories store the intellectual output of universities and research institutions, such as theses, dissertations, conference papers, and technical reports.

### **5. Importance of Electronic Information Resources in Information Searching:**

The importance of electronic information resources in information searching cannot be overstated. They have become the primary means through which users access information due to their efficiency and convenience.

EIRs support academic research by providing access to peer-reviewed literature and current findings. They enhance teaching and learning by offering diverse educational materials. In professional environments, EIRs support evidence-based decision-making and innovation.

Electronic information resources also promote global knowledge sharing by removing geographical and physical barriers. They enable collaboration among researchers and contribute to the democratization of information.

### **6. Information Searching Process Using Electronic Resources:**

Information searching using EIRs involves several stages:

1. **Identifying the information need**
2. **Selecting appropriate electronic resources**

3. **Formulating search queries**
4. **Evaluating search results**
5. **Using and managing retrieved information**

Effective searching requires an understanding of database structures, search interfaces, and indexing systems.

## **7. Search Strategies and Techniques:**

### **7.1 Keyword Searching:**

Keyword searching involves using relevant terms related to the information need. Selecting appropriate keywords is critical for retrieving accurate results.

### **7.2 Boolean Logic:**

Boolean operators such as AND, OR, and NOT help refine searches by combining or excluding terms.

### **7.3 Truncation and Wildcards:**

These techniques retrieve variations of a word root, expanding search results.

### **7.4 Advanced Search Filters:**

Filters such as publication date, document type, subject area, and language improve search precision.

### **7.5 Citation and Reference Searching:**

Tracking citations helps identify influential works and related studies.

## **8. Advantages of Electronic Information Resources:**

Electronic information resources offer numerous advantages in information searching:

- Quick and easy access to vast information
- 24/7 availability
- Simultaneous access by multiple users
- Enhanced search capabilities
- Cost-effectiveness over time
- Easy storage and retrieval
- Integration with reference management tools

These benefits make EIRs indispensable in modern information environments.

## **9. Challenges in the Use of Electronic Information Resources:**

Despite their advantages, EIRs present several challenges:

### **9.1 Information Overload:**

The abundance of information can overwhelm users and complicate decision-making.

### **9.2 Quality and Reliability Issues:**

Not all electronic sources are credible, requiring critical evaluation skills.



### **9.3 Access and Cost Barriers:**

Subscription fees and licensing restrictions limit access for some users and institutions.

### **9.4 Technological Constraints:**

Limited internet connectivity and inadequate infrastructure affect effective usage.

### **9.5 Digital Literacy Gaps:**

Lack of training in search strategies and evaluation skills reduces effective use.

## **10. Information Literacy and User Education:**

Information literacy is essential for effective information searching in electronic environments. It enables users to recognize information needs, locate relevant resources, evaluate sources critically, and use information ethically.

Libraries and educational institutions play a key role in promoting information literacy through training programs, workshops, and online guides. Information-literate users are better equipped to navigate complex electronic information systems.

## **11. Role of Libraries and Information Professionals:**

Libraries have transitioned from traditional repositories to hybrid and digital information centers. Librarians manage electronic collections, negotiate licenses, and provide access through digital platforms.

Information professionals also support users by offering reference services, research assistance, and information literacy training. Their role is crucial in helping users make effective use of electronic information resources.

## **12. Impact of Electronic Information Resources on Research and Education:**

Electronic information resources have significantly influenced research and education. They support interdisciplinary research, facilitate collaboration, and accelerate knowledge dissemination. In education, EIRs enhance teaching and learning by providing access to diverse and interactive learning materials. They support distance education and lifelong learning initiatives.

## **13. Future Trends in Electronic Information Resources:**

The future of electronic information resources is shaped by emerging technologies such as artificial intelligence, machine learning, and big data analytics. Personalized search systems, semantic search, and recommendation tools will further improve information searching.

Open access publishing and open educational resources are expected to expand access to information and reduce barriers to knowledge.

## **14. Conclusion:**

Electronic information resources have transformed information searching by making it faster, more efficient, and more accessible. They play a crucial role in education, research, and professional practice. While challenges such as information overload, access limitations, and digital literacy gaps

remain, these can be addressed through improved infrastructure, policy support, and user education.

As technology continues to evolve, electronic information resources will remain central to knowledge discovery and information searching. Their effective use will depend on the combined efforts of users, libraries, educators, and policymakers to ensure equitable access and responsible information use.

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