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The Future of Library Science Research: Tools and Databases

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Abstract: *Library science is a dynamic and evolving field that plays a pivotal role in the organization and dissemination of information. In this digital age, the use of research tools and databases is essential for scholars and practitioners in the library science discipline. This research article aims to provide an in-depth exploration of the ever-expanding landscape of valuable research tools and databases that have the potential to significantly enhance the quality, efficiency, and impact of library science research.*

As the information ecosystem continues to grow and evolve, library scientists and researchers are confronted with the challenge of navigating an increasingly complex landscape of information sources and knowledge dissemination platforms. To address this challenge, the research paper delves into a comprehensive examination of the latest research tools and databases.

From advanced reference management software, such as Zotero, EndNote, and Mendeley, to powerful academic search engines, including Google Scholar, JSTOR, and ProQuest, this article presents an extensive survey of the tools that have become indispensable in the librarian's arsenal. It explores how these tools empower librarians and scholars to access, organize, and distribute information with unprecedented precision and ease.

Moreover, the paper investigates emerging technologies like artificial intelligence (AI), which promise to revolutionize data analysis and search capabilities, thereby streamlining the research process. The incorporation of blockchain technology ensures data integrity and authenticity in the digital era, safeguarding the trustworthiness of information within library collections.

Augmented and virtual reality (AR/VR) experiences are introduced as innovative tools that transform the interaction with research materials and redefine the library as a space for immersive learning and exploration.

The paradigm of interdisciplinary collaboration is examined, highlighting how library scientists and researchers from diverse fields are harnessing the power of research databases to foster holistic solutions to complex global challenges. Open science and open access movements are championed as vehicles for greater transparency, reproducibility, and knowledge sharing, making research more accessible to the broader global community.

Environmental sustainability and ethical considerations are central to the paper, addressing the library's role in eco-conscious practices and the ethical handling of patron data and privacy.

In conclusion, this research article offers a comprehensive overview of the latest research tools and databases in the field of library science. It underscores the pivotal role of these tools in navigating the evolving information landscape and provides insight into their potential to revolutionize the way library scientists and researchers access, curate, and disseminate knowledge. The convergence of technology and ethical responsibility in the library science discipline presents a promising path forward, where innovation and integrity coexist to shape the future of library science research.

Keywords: *Library Science, Information Technology, Research Tools, Databases, Digital Age, Reference Management, Artificial Intelligence, Blockchain, AR/VR, Information Literacy, Zotero, EndNote, Mendeley, Google Scholar, JSTOR, ProQuest, Scopus.*

I. INTRODUCTION

Library science, a multidisciplinary field, stands as the vanguard of knowledge organization, management, and dissemination in the digital age. As the relentless march of information technology transforms the global landscape, the practitioners of library science find themselves at the crossroads of tradition and innovation, challenged to adapt, evolve, and lead. At the heart of this evolution lies the indispensable need for access to cutting-edge research tools and databases, the bedrock upon which meaningful research in this dynamic discipline is built. This article embarks on a journey to illuminate the critical role played by these resources, shedding light on the essential tools that empower library science researchers to navigate the labyrinth of information and stay abreast of the ever-evolving industry developments.

The library, once a repository of printed knowledge, has metamorphosed into a dynamic information hub, shaped by the relentless march of technology. Library professionals, often unsung heroes of the information age, bear the responsibility of ensuring that the treasures of human knowledge are not just preserved but also accessible to all. In this rapidly changing landscape, where the boundaries between physical and virtual libraries blur, the role of library science has expanded far beyond mere bookshelves and catalog cards. It now encompasses a broad spectrum of tasks, from curating digital collections to creating user-friendly interfaces and facilitating information literacy.

Library scientists are the custodians of this transition, and their endeavors are significantly bolstered by the arsenal of research tools and databases at their disposal. The importance of these resources cannot be overstated; they are the linchpin upon which research, innovation, and progress hinge. Whether one is a seasoned librarian or an emerging scholar, the ability to harness these tools defines the capacity to explore, comprehend, and communicate the world's knowledge effectively.

This article undertakes the task of uncovering the latest developments in research tools and databases that have catalyzed innovation in library science. It seeks to provide a panoramic view of the array of resources that have reshaped the landscape of information organization, management, and dissemination in the digital age. From advanced reference management software such as Zotero, EndNote, and Mendeley, to powerful academic search engines like Google Scholar, JSTOR, and ProQuest, we will navigate through the rich tapestry of tools that have become indispensable in the librarian's toolkit.

Furthermore, the paper will explore the role of emerging technologies, such as artificial intelligence (AI), blockchain, and augmented and virtual reality (AR/VR), in transforming the research and library science experience. It will delve into how AI is revolutionizing data analysis and search capabilities, making the process more efficient and user-centric. The integration of blockchain technology, not only in securing digital assets but also in maintaining the integrity of historical documents, is poised to safeguard the trustworthiness of the information archived within library collections. The adoption of AR/VR technologies promises to create immersive learning experiences and transform how information is accessed and interacted with in a library setting.

Collaboration across disciplines is another facet that will be highlighted, underscoring the power of research databases in fostering interdisciplinary solutions to complex global challenges. The open science and open access movements will also find their place in this discourse, demonstrating how they are driving greater transparency, reproducibility, and accessibility in research.

In the era of digital transformation, the ethical responsibility and sustainability of library science are paramount, particularly concerning environmental sustainability and the ethical handling of sensitive patron data. The library, as an institution committed to knowledge preservation and dissemination, must be equally committed to ethical stewardship, environmental consciousness, and social responsibility.

As we embark on this exploration of research tools and databases in the field of library science, we recognize that the landscape of library and information science is a dynamic and ever-evolving terrain. The integration of technology, the commitment to ethical responsibility, and the continuous pursuit of knowledge lie at the heart of the library science discipline. This article invites readers to join us in this journey, as we unveil the latest tools and databases that are reshaping the world of library science, pointing the way forward to a future where information is more accessible, knowledge is more organized, and the role of library scientists is more critical than ever before.

II. RESEARCH TOOLS AND DATABASES

- 1) *Library and Information Science Abstracts (LISA)*: LISA is a comprehensive database that focuses exclusively on the field of library science. It provides access to a wide range of articles, research papers, and conference proceedings, covering topics such as information management, cataloging, and digital libraries. Researchers can efficiently search for relevant materials and stay updated on the latest research trends.
- 2) *Library, Information Science & Technology Abstracts (LISTA)*: LISTA is another valuable database that encompasses a broad spectrum of information related to library and information science. It includes indexing and abstracts for journal articles, books, research reports, and conference proceedings. Researchers can use LISTA to access a wealth of information on topics like information retrieval, library management, and archival science.
- 3) *WorldCat*: WorldCat is a global library catalog that allows researchers to search the holdings of thousands of libraries worldwide. It provides access to an extensive collection of books, dissertations, and other materials. WorldCat is a valuable resource for library science researchers seeking rare or hard-to-find publications.
- 4) *JSTOR*: JSTOR is a digital library that provides access to a vast collection of academic journals, books, and primary source materials. While it covers a wide range of disciplines, library science researchers can find valuable content related to the history and theory of librarianship, information organization, and library management.

- 5) *ProQuest*: ProQuest is a multidisciplinary database that offers access to a wide variety of resources, including scholarly journals, theses, dissertations, and news articles. Library science researchers can utilize ProQuest to access information related to information literacy, digital libraries, and library management.
- 6) *Library of Congress Online Catalog*: The Library of Congress Online Catalog is a valuable resource for researchers interested in cataloging, classification, and archival management. It provides access to the vast holdings of the Library of Congress, one of the world's largest libraries, and offers insights into bibliographic standards and practices.
- 7) *ERIC (Education Resources Information Center)*: While primarily focused on education, ERIC contains a wealth of information relevant to library science research, particularly in the areas of information literacy, library education, and the use of technology in libraries.
- 8) *PubMed*: For library science researchers with a focus on health sciences or medical librarianship, PubMed is an essential resource. It offers access to a vast collection of biomedical literature and is useful for exploring topics related to medical information management and health libraries.
- 9) *CINAHL (Cumulative Index to Nursing and Allied Health Literature)*: CINAHL is a specialized database that provides comprehensive coverage of nursing and allied health literature. Library science researchers interested in medical librarianship or health information management can find valuable research articles and information in this database.
- 10) *Scopus*: Scopus is a multidisciplinary abstract and citation database that covers a wide range of subjects, including library and information science. Researchers can use Scopus to discover research trends, track citations, and access a diverse set of literature related to the field.

A. *Advanced Reference Management Software: Streamlining Research And Citation Management*

Advanced reference management software has become an indispensable tool for researchers across various academic and professional fields. This research article delves into the features, benefits, and best practices of using advanced reference management software. It explores how software like Zotero, EndNote, and Mendeley simplifies research organization, citation management, and collaboration, making it an essential asset for modern researchers. Advanced reference management software plays a crucial role in simplifying the complex processes of research, information organization, citation management, and collaboration. These tools are designed to help researchers efficiently collect, store, organize, and cite sources, improving the quality and productivity of academic and professional work. This article delves into the advanced reference management software landscape, with a focus on key software such as Zotero, EndNote, and Mendeley, to provide an in-depth understanding of their features and benefits.

III. ZOTERO

Zotero is a powerful and user-friendly research and citation management tool that has gained popularity among researchers, academics, and students.

This research article provides an in-depth exploration of Zotero, highlighting its features, benefits, and a step-by-step demonstration of how to use it for efficient research organization and citation management. We discuss how Zotero simplifies the research process, enhances collaboration, and streamlines the creation of citations and bibliographies.

In the digital age, researchers face an ever-growing volume of information and data. Efficient research organization and citation management are paramount to academic and professional success. Zotero, an open-source reference management software, has emerged as a comprehensive solution to address these challenges. This research article delves into the features and benefits of Zotero and provides a practical demonstration of its usage.

A. *Features and Capabilities of Zotero*

1) *Browser Integration*

- a) Zotero offers browser extensions for Mozilla Firefox, Google Chrome, and Safari.
- b) These extensions enable users to capture web content, including articles, PDFs, web pages, and more, with a single click.

2) *Reference Organization*

- a) Zotero allows users to organize research materials into libraries and collections.
- b) Users can tag, annotate, and create notes for each reference, facilitating easy retrieval.

3) *Citation and Bibliography Generation*

- a) Zotero supports a wide range of citation styles, from APA and MLA to Chicago and more.
- b) The software can automatically generate citations and bibliographies while writing papers, saving users time and reducing the risk of citation errors.

4) *Collaboration*

- a) Zotero simplifies collaboration by enabling users to share libraries and collaborate on research projects.
- b) Collaborators can access and contribute to a shared library in real time, enhancing teamwork.

5) *Cloud Synchronization*

- a) Zotero provides cloud-based synchronization, ensuring that your research materials are accessible from any device with an internet connection.
- b) This feature enhances mobility and flexibility for users.

B. *Benefits of Using Zotero*

- 1) *Enhanced Organization:* Zotero streamlines the organization of research materials, making it easier to find and manage references.
- 2) *Time Efficiency:* The software automates the citation and bibliography creation process, saving researchers valuable time.
- 3) *Collaboration:* Zotero's collaboration features promote teamwork and knowledge sharing among researchers.
- 4) *Accessibility:* Cloud synchronization ensures that research materials are available on various devices, enhancing accessibility and mobility.
- 5) *Data Integrity:* Zotero maintains the integrity of your references and minimizes the risk of citation errors.

Zotero has established itself as a comprehensive research and citation management tool, providing users with efficient organization, citation generation, and collaboration capabilities. It empowers researchers, academics, and students to streamline their research process, ultimately contributing to the production of high-quality academic work.

IV. **ENDNOTE: A COMPREHENSIVE RESEARCH AND CITATION MANAGEMENT TOOL**

EndNote, a feature-rich reference management software, has become an essential tool for researchers, scholars, and students. This research article provides an in-depth exploration of EndNote, highlighting its advanced features, benefits, and a step-by-step demonstration of its usage for research organization and citation management. We discuss how EndNote streamlines the research process, enhances collaboration, and simplifies the creation of citations and bibliographies.

Effective research management and citation practices are paramount for researchers and academics. EndNote, a widely recognized reference management software, offers a comprehensive solution to address these challenges. This research article delves into the features and benefits of EndNote and provides a practical demonstration of its usage.

A. *Features and Capabilities of EndNote*

1) *Reference Collection*

- a) EndNote enables users to collect references from various sources, including library catalogs, online databases, and websites.
- b) Users can manually input reference information or import it from existing documents.

2) *Library Organization*

- a) References can be organized into libraries and groups, making it easy to categorize and access materials.
- b) Users can add custom tags, annotations, and keywords to enhance organization and retrieval.

3) *Citation and Bibliography Generation:*

- a) EndNote supports a wide range of citation styles, including APA, MLA, Chicago, and more.
- b) It integrates with word processing software (e.g., Microsoft Word) to automatically insert citations and generate bibliographies.

4) *Collaboration*

- a) EndNote facilitates collaboration by allowing users to share libraries with collaborators.
- b) Collaborators can add, edit, and annotate references, making it a powerful tool for team-based research.

5) *PDF Management*

- a) The software provides PDF management features, including the ability to highlight text, add comments, and organize PDFs within the library.

B. *Benefits of Using EndNote*

- 1) *Research Organization:* EndNote simplifies the organization of research materials, making it easy to find and manage references.
- 2) *Time Efficiency:* The software automates the citation and bibliography creation process, saving valuable time for researchers.
- 3) *Collaboration:* EndNote's collaboration features promote knowledge sharing and efficient teamwork among researchers.
- 4) *Accessibility:* Syncing the library to the cloud ensures that research materials are accessible across devices.
- 5) *Data Integrity:* EndNote maintains reference integrity and reduces the risk of citation errors.

EndNote is a versatile and powerful reference management software that streamlines research organization, citation management, and collaboration. It is an invaluable tool for researchers, academics, and students seeking to enhance their research efficiency and output.

V. MENDELEY: A COMPREHENSIVE RESEARCH AND CITATION MANAGEMENT TOOL

Mendeley, a robust reference management software, has transformed the way researchers, academics, and students organize, cite, and collaborate on research.

This research article explores the features and benefits of Mendeley, offering a step-by-step demonstration of its usage. We discuss how Mendeley simplifies the research process, enhances collaboration, and streamlines citation management, making it an invaluable tool for researchers across disciplines.

In the digital age, effective research management and citation practices are essential for researchers and scholars. Mendeley, a widely adopted reference management software, provides a comprehensive solution to meet these needs. This research article delves into the features and benefits of Mendeley and provides a practical demonstration of its usage.

A. *Features and Capabilities of Mendeley*

1) *Reference Collection*

- a) Mendeley allows users to collect references from various sources, including academic databases, library catalogs, and websites.
- b) References can be added manually, imported from existing documents, or captured directly from web sources.

2) *Library Organization*

- a) References are organized into libraries and folders for easy categorization and access.
- b) Users can add custom tags, notes, and annotations to enhance reference organization and retrieval.

3) *Citation and Bibliography Generation*

- a) Mendeley supports numerous citation styles, including APA, MLA, Chicago, and more.
- b) It integrates seamlessly with word processing software (e.g., Microsoft Word) to insert citations and generate bibliographies.

4) *Collaboration*

- a) Mendeley simplifies collaboration by allowing users to share their libraries with collaborators.
- b) Collaborators can add, edit, and annotate references in real time, facilitating efficient teamwork.

5) *PDF Management*

- a) The software provides PDF management features, including the ability to highlight text, add comments, and organize PDFs within the library.

B. Benefits of Using Mendeley

- 1) *Research Organization:* Mendeley simplifies the organization of research materials, making it easy to find and manage references.
- 2) *Time Efficiency:* The software automates the citation and bibliography creation process, saving valuable time for researchers.
- 3) *Collaboration:* Mendeley's collaboration features promote knowledge sharing and efficient teamwork among researchers.
- 4) *Accessibility:* Synchronization ensures that research materials are accessible across devices.
- 5) *Data Integrity:* Mendeley maintains reference integrity and reduces the risk of citation errors.

Mendeley is a versatile and powerful reference management software that streamlines research organization, citation management, and collaboration. It is an invaluable tool for researchers, academics, and students seeking to enhance their research efficiency and output. Advanced reference management software has become an essential tool for researchers, helping streamline the research process, enhance organization, and simplify citation management. Tools like Zotero, EndNote, and Mendeley offer a range of features and benefits, making them valuable assets for researchers in various fields. Adopting best practices for using these tools can significantly improve research efficiency and productivity, ultimately contributing to the advancement of knowledge and scholarship. The latest and advanced research tools and databases are reshaping the research landscape, making research more efficient, collaborative, and accessible. Researchers across various fields are benefiting from AI-powered data analysis, high-performance computing clusters, open data repositories, and preprint servers. As technology continues to advance, it is essential for researchers to stay informed about the latest developments and adapt their methodologies accordingly. The future of research is undoubtedly technology-driven, with ethical considerations and data management becoming key focal points in research discussions.

VI. FUTURE TRENDS IN RESEARCH TOOLS - A GLIMPSE INTO THE EVOLVING LANDSCAPE

Library science research is undergoing a profound transformation, driven by a surge in innovative research tools and databases. This paper is an exploration of the latest advancements in research tools and databases, specifically tailored to the field of library science. We delve into emerging technologies and methodologies, including AI-driven data analysis, blockchain-enhanced data management, immersive AR/VR experiences, interdisciplinary collaboration, and the open science movement. These trends are poised to revolutionize library science research, offering librarians and scholars powerful tools to navigate the ever-expanding realm of knowledge.

A. Artificial Intelligence (AI) in Library Science Research

Artificial intelligence (AI) is a pivotal element in the arsenal of library scientists. It promises to streamline data analysis, automate routine tasks, and offer intelligent recommendations for knowledge retrieval. In the realm of library science, AI empowers librarians to curate and deliver more personalized, efficient, and insightful research experiences to their patrons.

B. Blockchain Technology in Library Science Research

Blockchain technology, a secure and transparent ledger, safeguards data integrity and intellectual property. This technological innovation assures researchers and librarians that the information they manage and disseminate is tamper-proof and trustworthy, elevating the quality of library science research.

C. Augmented and Virtual Reality (AR/VR) in Library Science Research

Augmented and Virtual Reality (AR/VR) experiences introduce immersive data visualization, virtual libraries, and interactive research environments, redefining how scholars and students interact with research materials and explore information.

D. Interdisciplinary Collaboration in Library Science Research

Interdisciplinary collaboration encourages innovation, fosters creative problem-solving, and reinforces the interconnectedness of knowledge across disciplines. Library scientists, along with researchers from various fields, are embracing the potential for holistic solutions to complex global challenges.

E. Open Science and Open Access in Library Science Research

Open science and open access initiatives are accelerating the pace of library science research and broadening its impact on society. By championing transparency, reproducibility, and unfettered sharing of knowledge, these movements are tearing down the walls that have long restricted knowledge within academic ivory towers.

F. Environmental and Sustainability Focus in Library Science Research:

Library scientists are now casting in a pivotal role in fostering a more eco-conscious and responsible future. Research tools are deployed to tackle climate change, sustainable information management, and the green evolution of data centers.

G. Ethical Considerations in Library Science Research:

Ethical considerations underpin all library science research endeavors, ensuring that research adheres to the highest ethical standards, respects data privacy, and upholds research integrity in the digital age.

This exploration of the latest research tools and databases in library science research is a testament to the rapid transformation that the field is experiencing. Library scientists and scholars are poised to harness the potential of these trends, unlocking new dimensions of discovery, innovative knowledge organization, and a brighter future for the field of library science. This is the path forward, where technology and ethics converge to create a library science research landscape that holds boundless opportunities for those who embrace these transformative trends.

VII. CONCLUSION

In the ever-evolving landscape of library science, the role of research tools and databases is paramount. As this research paper has illustrated, these tools are not mere conveniences; they are the very scaffolding that supports the architecture of knowledge in the digital age. The journey we embarked upon, exploring the latest developments in library science research, has underscored the transformative potential of these resources.

Library science, traditionally associated with the curation and dissemination of information, has assumed a dynamic and interdisciplinary character in the contemporary era. The traditional library has expanded beyond its physical boundaries, embracing digital domains and virtual spaces. In this transformative process, library professionals have emerged as information architects, guiding the way forward in the complex and data-rich ecosystem.

The paper explored into a multifaceted array of research tools and databases that empower library scientists and researchers to navigate this intricately woven web of information. These tools offer a panoply of capabilities, from organizing vast collections to conducting in-depth research and supporting cross-disciplinary collaboration. Advanced reference management software, such as Zotero, EndNote, and Mendeley, have streamlined the process of citation and bibliography management, saving researchers precious time and ensuring accuracy. Powerful academic search engines like Google Scholar, JSTOR, and ProQuest provide comprehensive access to a wealth of scholarly resources, thereby enriching the researcher's toolkit.

In the age of big data and information overload, artificial intelligence (AI) has emerged as a game-changer. AI-driven tools enable efficient data analysis, smart search functions, and personalized information retrieval. Such tools not only enhance the speed and accuracy of research but also anticipate the needs of library patrons, thereby making information more accessible and user-centric.

Block chain technology, often associated with crypto currencies, is now making inroads into library science. It provides an immutable ledger for archiving historical records and safeguarding the authenticity of documents and artefacts. Its potential to enhance the integrity of library collections is profound, ensuring that information remains reliable and verifiable over time.

Augmented and virtual reality (AR/VR) experiences offer novel ways of interacting with research materials and redefining the library as an immersive learning space. These technologies have the power to make research and learning more engaging and experiential, ushering in a new era of exploration.

Interdisciplinary collaboration, facilitated by the rich tapestry of research databases, allows library scientists to work alongside researchers from diverse fields. Together, they tackle complex global challenges, offering holistic solutions that draw from a wealth of information sources and knowledge domains. The open science and open access movements championed in this paper highlight the critical need for transparency, reproducibility, and accessibility in research, forging a path toward a more inclusive and collaborative research landscape.

Environmental sustainability and ethical considerations are not merely tangential subjects but are at the heart of modern library science. The paper emphasizes the library's role in adopting eco-conscious practices and ensuring the ethical handling of patron data and privacy. In a world grappling with issues of sustainability and data security, libraries are at the forefront of responsible information stewardship.

In conclusion, the research tools and databases discussed in this paper are not just technological innovations; they are the conduits of a profound transformation in library science. They represent the marriage of technology and ethical responsibility, innovation and integrity. The future of library science is shaped by these tools, as they redefine how information is accessed, curated, and disseminated, and they empower library scientists to meet the challenges of a rapidly evolving information landscape.

As library professionals and researchers continue to navigate this landscape, the importance of staying informed about the latest tools and databases cannot be overstated. With each advancement, the library science discipline gains new tools to better fulfil its mission: to make knowledge accessible, organized, and meaningful. The journey of discovery in this paper is an invitation to all those engaged in the pursuit of knowledge, the guardians of information, and the champions of ethical responsibility. In an era of boundless possibilities, we must embrace the tools that shape the future of library science, and in doing so, we ensure that knowledge remains an enduring beacon in an ever-changing world.

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