# Internet Resource Guide for Computer Science Research

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**INFORMATION ON THE GUIDE**

*Content Overview:*
This guide, intended for computer science enthusiasts and professionals, offers comprehensive information on prominent computer science websites, federal cybersecurity resources, and online databases. Beginning with the introductory content on esteemed tech journals from well known institutions like MIT, the guide moves into platforms for tech entrepreneurs, government cyber security protocols, and vast databases brimming with computer science research. Whether you're a novice tech enthusiast or an established computer science expert, the resources are valuble to maintitaning up to date technology information.

*Purpose for Audience:*
The primary target audience for this guide includes computer science students, IT professionals, cybersecurity experts, and technology fans. All you would need to know to understand most of this guide is a foundational understanding of tech terminologies and an interest in tech news and advancements. This guide aims to fill readers with insights about current tech trends, cybersecurity protocols, and expansive computer science databases.

*Assumptions Of Audience:*
The creation of this guide assumes that its readers possess a genuine interest in computer science, technology updates, and cybersecurity. While the information is structured for easy comprehension, readers should be committed to getting deep into computer science topics. Using this guide, one should have a primary objective: to enhance their knowledge, stay updated on tech news, and further their professional or academic pursuits in computer science.

*Organization of the Information:*
The guide is structured with a table of contents to allow for effictive navigation. The first segment introduces readers to renowned tech websites, offering insights into the latest technological innovations and industry updates. Following this, the guide gets into federal cybersecurity websites, detailing the mission and objectives of government-driven cybersecurity initiatives. The subsequent sections provide in depth information on online databases and journals, focusing on a vast area of computer science topics.

**COMPUTER SCIENCE WEBSITES**
The following section will include two different websites containing information on credible technology journals. First website was created by MIT and covers all types of innovations in the feild. The second website helps entranpanures stay well informed on the tech world.

# Technology Review

*URL link*: https://www.technologyreview.com/

*Abstract*:
Technology Review is an official subsidiary of Massachusetts Institute of Technology (MIT). The journal was founded in 1899 and has held strong ever since. Technology Review has been distributed as a regular mainstream magazine and appeared on newsstands all over the US. By 2003, circulation had reached 315,000 per release. In 2005 the Journal transitioned to a hybrid model having both magazines and the now well-known website having 10 million monthly page views.

The website is a hub for the latest and greatest technological innovations. More recently the articles have covered all kinds of topics, such as up-and-coming innovators in the field, genetic modification technology, and most importantly the massive advancements in artificial intelligence. Technology Review is formatted with different pages that contain articles, newsletters, podcasts, and it even has an event page to allow professionals in the field to meet and discuss different topics.

TechnologyReview.com has been a cornerstone in the tech journalism landscape since its very beginning. The site offering articles, newsletters, podcasts, and event information on the forefront of technological advancements, including AI and genetic modification is a great resource for staying current on tech news.

*Tips*
- *New articles are posted daily, so check back often to stay up to date on current inforamtion.*
- *There is a subscrioption option, but it is not necassary for use of the site.*
- *The podcasts on the site are a valuble recorce to be given alot of information what not having to be fully focused.*

# Computer World

*URL link*: https://www.computerworld.com/

*Abstract*:

ComputerWorld is an award-winning website that covers a range of technology topics, including IT news, careers, business technology, and reviews. The site is aimed at professional IT users and decision makers. Computerworld is based in Denmark and the jounral decided to go digital in 2014. The website gets about 2.1 million visits monthly and ranks just outside of the top 500 tech realted websites in the world. ComputerWorld is lead by Ken Mingis who manages a small team of editors that all work together to operate the very sucessful journal.

ComputerWorld provides insights and updates to IT professionals and business leaders about the latest in information technology, novel tech solutions, and prevailing tech trends. Each year, they release significant reports such as a list of top IT workplaces, an IT compensation study, the DATA+ Editors Choice recognitions, and a yearly forecast research. Navagating the site is quite simple, using the tabs at the top you can get to newsletters, events, and the diffrent main focus topics like Apple and AI news.

ComputerWorld is a leading digital technology journal that delivers in-depth information on IT trends, news, and insights to professionals and decision-makers. Under the leadership of Ken Mingis, the platform offers valuable resources, including annual reports, while maintaining a user-friendly interface for its readers.

*Tips*
- The site had a tab for AI info only, for up to date and focused information.
- There is a option to switch your location so that if you wanted to you could get only news focused for certain areas of the world. Like India or Austraia for example

**FEDERAL CYBERSECURITY WEBSITE**
This section contains the federal website for the Cybersecurity and Infrastructure Security Agency that can be found through searching from usa.gov or by the link below. This resource will document what the orginizations goal is and provide factual information about cyber security.

# CISA

*URL link*: https://www.cisa.gov/

*Abstract*:
CISA is a offical goverment site that use their playform and connections to facilitate more secure and resilient infrastructure. The sit is a .gov which on its own adds a little credibility because goverment websites have to be more regulated and filtered to keep that title. The website get about 1.5 million visits per month, however the interaction rate is much higher then most of the other sites I have looked into. It only has a 63% bounce rate and the average pages per visit is 4.3.

The goverment orginization is a great sourse for tech updated related to cyber security. There is mutiple blog and press releases coming out daility about a bunch of diffrent cybersecuty news, innovation, and excersized. The site also is a reliable sourse for cyber security recorces, tools, and training that you can confidently trust is up to date and efficent. The site has split up the US states into 10 diffrent regions, where each of them have control to contribute to the site; therefore, everyone from all parts of the US are represented and are getting relevent information.

CISA is an official government platform dedicated to enhancing the security and resilience of infrastructure. As a credible source, it offers daily cybersecurity updates, resources, tools, and training, ensuring representation from all U.S. regions. This site is a very usefull place for staying updated in the cybersecurity field.

*Tips*
- The Spotlight tab gives currently relevent articles.
- They have a carreers tab can be used to find jobs at the government agenct.
- Has a recources tab that has training classes.

**ONLINE WEBSITES**

In this section there are three online database reasorces for obtaining reliable information about computer science topics. In these resources you will have access to countless articles and government documents connected to or about the computer science feild.

# GovInfo

*URL link*: https://www.govinfo.gov/

*Abstract*:

GovInfo.gov is a free website for US citizens to access official publications for all parts of government. The website is quite successful having 1.7 monthly users, ranking it 43$^{rd}$ out of all law/government related websites. This government database can be used to easily access all types of reliable information about the US government. The site is efficiently structured, and it is easy to find the information you are looking for with the search bar or you can just browse based on many different factors; including year, topic, branch of government, a government committee, or officially sponsored govinfo authors. The website has info going back to 1843, and for the past 20 years, it has had more than 1,000 official posts each year.

The information on the website is highly reliable because the only publications are official government memos, surveys, court documents, and court transcriptions. With this database there is no middleman for any of the information; the info is going straight from the white house, Supreme Court, and Congress to the database. For computer science information, after a quick search, you are able to find all government actions involving the field. For example, I was able to find a congressman's speech given to the House to push for more computer science teaching in public schools.

GovInfo.gov serves as a direct portal for US citizens to access a wide range of official government publications, enhancing transparency and information accessibility. The exclusivity of official documents like court transcripts and government memos ensures unmediated information directly from governmental bodies.

*Tips*
- Familiarize yourself with how to find publications, what publications are available, and the basic search tips provided on the site.
- Make use of the search widget to narrow down information or explore specific topics.
- Browse through categories such as date, committee, or author to find documents relevant to your interests.

# SCM Digital Library

*URL link*: https://dl.acm.org/

*Abstract*:

The ACM Digital Library stands as one of the top academic databases in the realm of computer science. Having a collection that is over 540,000 articles, it also features the ACM Guide to Computing Literature which contains in excess of 2.8 million bibliographic entries. Users have access to comprehensive coverage, with abstracts provided for every article to give a concise overview. While it doesn't offer related articles, it does supply valuable references and indicates which other works have cited the article in question. Also, for the convenience of researchers, the library supports export formats such as BibTeX and EndNote, ensuring easy integration into academic workflows.

The site contains journals, magazines, books, confrence information, and proceedings. All of these resorces have been used to contribute to research and innovation for the past 115 years. The proceedings are something unique to this databse from the other i have researched. The proceedings tab is used to "capture innovation across the spectrum of computing fields by publishing refereed research findings and invited papers from ACM conferences, workshops and symposia." overall, the ACM digital library is one of the top rated and highly reccomneded recoreded for computer science information.

The ACM Digital Library is a premier academic resource in computer science, Although lacking related articles, it provides useful references, citation records, and supports export formats like BibTeX and EndNote, aiding academic endeavors.

*Tips*
- Every article has an abstract for a quick overview.
- Explore the references and citation features to expand your research.
- Use the export functions to easily integrate articles into your academic workflow, leveraging BibTeX and EndNote formats.

# IEEE Xplore

*URL link*: https://ieeexplore.ieee.org/Xplore/home.jsp

*Abstract*:

IEEE Xplore is a important digital platform, having over 4.7 million research articles focused mostly on electrical engineering, computer science, and electronics. It's not just a repository for scholarly journal pieces, but also an inclusive archive of conference papers, technical standards, and books. Offering comprehensive coverage, users are able to find the importance of an article using abstracts, and while it doesnt provide links to related articles like some of the other sites, the presence of references and citation data is helpful. IEEE Xplore is good because it allows for exportable formats such as BibTeX and RIS, underscoring its commitment to fostering a streamlined academic exploration.

This databe base has all of the standard information types such as books, confrences, journals, and magazines. IEEE Xplore is unique because it has online counses and standards. The online counrese are all on new and relevent topics related to tech. The standards tab it very intresting because it shows how much the site values its credibility. This tab has pages and pages of how the diffrent professions but standardize their projects to be

IEEE Xplore is a robust digital platform primarily in electrical engineering and computer science. It's a diverse archive encompassing journals, conference papers, technical standards, books, and unique offerings like online courses and professional standards, making it a comprehensive resource for academic and professional development.

*Tips*
- Utilize abstracts for a quick understanding of articles.
- Leverage provided references and citation data for expanded research.
- Make use of exportable formats like BibTeX and RIS for easier integration into academic workflows.