

### **Deep Web Research and Discovery Resources 2018**

By

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Bots, Blogs and News Aggregators 2018 (<a href="http://www.BotsBlogs.com/">http://www.BotsBlogs.com/</a>) is a keynote presentation that I have been delivering over the last several years, and much of my information comes from the extensive research that I have completed over the years into the "invisible" or what I like to call the "deep" web. The Deep Web covers somewhere in the vicinity of trillions upon trillions of pages of information located through the world wide web in various files and formats that the current search engines on the Internet either cannot find or have difficulty accessing. The current search engines find hundreds of billions of pages at the present time of this writing. This report constantly updated at <a href="http://DeepWeb.us/">http://DeepWeb.us/</a>.

In the last several years, some of the more comprehensive search engines have written algorithms to search the deeper portions of the world wide web by attempting to find files such as .pdf, .doc, .xls, ppt, .ps. and others. These files are predominately used by businesses to communicate their information within their organization or to disseminate information to the external world from their organization. Searching for this information using deeper search techniques and the latest algorithms allows researchers to obtain a vast amount of corporate information that was previously unavailable or inaccessible. Research has also shown that even deeper information can be obtained from these files by searching and accessing the "properties" information on these files!

This report and guide is designed to give you the resources you need to better understand your search through the currently available web to find those key sources of information nuggets only found by utilizing how to search the "deep web".



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[Updated: October 1, 2018] http://DeepWeb.us/ zillman@VirtualPrivateLibrary.com eVoice: 800-858-1462 © 2005 - 2018 Marcus P. Zillman, M.S., A.M.H.A.

## This **Deep Web Research and Discovery Resources 2018** report and guide is divided into the following sections:

Articles, Papers, Forums, Audios and Videos

Cross Database Articles

Cross Database Search Services

Cross Database Search Tools

Peer to Peer, File Sharing, Grid/Matrix Search Engines

Presentations

Resources - Deep Web Research

Resources - Semantic Web Research

Bot and Intelligent Agent Research Resources and Sites

**Subject Tracer Information Blogs** 

# <u>ARTICLES, PAPERS, FORUMS, AUDIOS AND VIDEOS</u> (Current and Historical)

#### 8 Best Deep Web People Search Engines

https://www.airsassociation.org/services-new/airs-knowledge-network-n/airs-articles/item/16323-8-best-deep-web-people-search-engines-updated

### 99 Resources to Research & Mine the Invisible Web by Jessica Hupp

http://www.collegedegree.com/library/college-life/99-resources-to/

#### A Basic Guide to Diving In To the Dark Web

https://www.zdnet.com/pictures/a-basic-guide-to-the-deep-dark-web/

#### A Beginner's Guide to the Dark Web by Ben Dickson

https://www.dailydot.com/layer8/what-is-dark-web/

#### Academic and Scholar Search Engines and Sources 2018

http://www.ScholarSearchEngines.com/

#### Accessing the Deep Web and Dark Web with Tor by Jack Jones

https://mobile.audible.com/search.htm?narrator=Dan+Gralick

## Access the Deep Web and Protect Your Privacy Online with Anonabox by Marco Chiappetta

http://www.forbes.com/sites/marcochiappetta/2016/04/29/access-the-deep-web-and-protect-your-privacy-online-with-the-anonabox/#72cd0dc337c2



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### All of OCLC's WorldCat Heading Toward the Open Web by Barbara Quint http://newsbreaks.infotoday.com/nbreader.asp?ArticleID=16353

#### An Executive Overview of the Deep and Dark Web

http://www.cio.com/article/3199632/cyber-attacks-espionage/an-executive-overview-of-the-deep-dark-web.html

#### An Insider's Look Into the Dark Web by Aaron Tan

https://www.computerweekly.com/feature/An-insiders-look-into-the-dark-web

# An Interactive Clustering-based Approach to Integrating Source Query interfaces on the Deep Web by W. Wu, C. Yu, A. Doan, W. Meng

http://www.cs.binghamton.edu/~meng/pub.d/sigmod04-final.pdf

#### **Annotation for the Deep Web**

http://dl.acm.org/citation.cfm?id=1137372

#### An Up-To-Date Layman's Guide To Accessing The Deep Web

https://www.fastcompany.com/3026989/an-up-to-date-laymans-guide-to-accessing-the-deep-web

A Primer on Staying Secure and Anonymous on the Dark Web by Mark Turner <a href="http://www.techspot.com/guides/1292-web-security-anonymizer-primer/">http://www.techspot.com/guides/1292-web-security-anonymizer-primer/</a>

### Articles on Deep and Dark Web Published by Associations of Internet Research Specialists (AIRS)

https://www.airsassociation.org/services-new/airs-knowledge-network-n/airs-articles/itemlist/category/20-deep-web

## Automatic Extraction of Web Search Interfaces for Interface Schema Integration by H. He, W. Meng, C. Yu, Z. Wu

http://www.cs.binghamton.edu/~meng/pub.d/WWWposterhe.pdf

## **Automatic Information Extraction From Semi-Structured Web Pages By Pattern Discovery**

http://dl.acm.org/citation.cfm?id=640423&dl=ACM&coll=portal

## Automatic Meaning Discovery Using Google by Rudi Cilibrasi and Paul M. B. Vitanyi

http://arxiv.org/abs/cs.CL/0412098



#### **Battle of the Secure Smartphones**

https://www.airsassociation.org/services-new/airs-knowledge-network-n/airs-articles/item/17276-battle-of-the-secure-smartphones

Beyond Google: The Invisible Web - Tools for Teaching the Invisible Web <a href="http://library.laguardia.edu/invisibleweb/teachingtools">http://library.laguardia.edu/invisibleweb/teachingtools</a>

Bibliomining for Automated Collection Development in a Digital Library Setting: Using Data Mining to Discover Web-Based Scholarly Research Works by Dr. Scott Nicholson

http://scottnicholson.com/pubs/asisdiss.pdf

### Big Data and AI: 30 Amazing (And Free) Public Data Sources for 2018 by Bernard Marr

https://www.forbes.com/sites/bernardmarr/2018/02/26/big-data-and-ai-30-amazing-and-free-public-data-sources-for-2018/

#### **Bot Research 2018**

http://www.BotResearch.info/

#### BrightPlanet Launches Deep Web Data Feeds: Global News Data Feed Is First Available Data Feed

http://www.brightplanet.com/2015/01/brightplanet-launches-deep-web-data-feeds-global-news-data-feed-first-available-data-feed/

#### **Client-Side Deep Web Data Extraction**

http://www.computer.org/csdl/proceedings/cec-east/2004/2206/00/22060158-abs.html

Clustering E-Commerce Search Engines by Q. Peng, W. Meng, H. He, C. Yu <a href="http://www.cs.binghamton.edu/~meng/pub.d/WWWposterPeng.pdf">http://www.cs.binghamton.edu/~meng/pub.d/WWWposterPeng.pdf</a>

#### Common Deep Web and Big Data Questions Answered (Part 1)

http://www.brightplanet.com/2014/11/common-deep-web-big-data-questions-answered-part-1/

#### Common Deep Web and Big Data Questions Answered (Part 2)

http://www.brightplanet.com/2014/12/common-deep-web-big-data-questions-answered-part-2/

#### **Creating Intelligence from Big Data**

http://bigdata.brightplanet.com/creating-new-intelligence-from-big-data



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#### **Current Awareness Discovery Tools on the Internet 2019**

http://www.zillman.us/white-papers/current-awareness-discovery-tools-on-the-internet/

#### **Current Awareness Tools 2019**

http://www.currentawarenesstools.com/

#### DarkCyber Beyond Search by Stephen E. Arnold

http://arnoldit.com/wordpress/category/dark-web/

### Darknet Resembles the Open Internet – Just With Anonymity by Roderick S. Graham and Brian Pitman

http://www.newsweek.com/darknet-resembles-internet-itself-anonymity-550324?rx=us

#### **DarkReading**

https://www.darkreading.com/

#### Dark Web (DarkNet) by Margaret Rouse

https://whatis.techtarget.com/definition/dark-web

### Dark Web Data Theft May Have Finally Met Its Match by Vaughn Highfield

http://www.alphr.com/security/1009340/dark-web-data-theft-fujitsu-intsights

#### Darkweb for Newbees: Hacking and Marketplaces by Gaurav Sangwani

http://www.businessinsider.in/darkweb-for-newbees-hacking-and-marketplaces/articleshow/55941181.cms

#### **Dark Web News**

http://www.DarkWebNews.com/

#### Dark Web Security Tips by Enjeck Mbeh Cleopatra

https://latesthackingnews.com/2018/07/17/dark-web-security-tips/

### Dark Web Version of Facebook Shows a New Way to Secure the Web by Tom Simonite

https://www.technologyreview.com/s/532256/dark-web-version-of-facebook-shows-anew-way-to-secure-the-web/

#### Dark Web - CRS Report by Kristin Finklea

https://fas.org/sgp/crs/misc/R44101.pdf

#### **Deep Web by Margaret Rouse**

https://whatis.techtarget.com/definition/deep-Web



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Deep Web - Exploring the Secrets of the Hidden Internet by Marcus P. Zillman, M.S., A.M.H.A., - 23 minutes - Internet/Technology Channel http://www.planetearthradio.com/technology.htm

Deep Web: Legal Due Diligence by Lisa Brownlee

http://federatedsearchblog.com/2015/04/29/deep-web-legal-due-diligence/

Deep Web Links – Massive Deep Websites Links and URL by Martin Grossner <a href="https://www.airsassociation.org/services-new/airs-knowledge-network-n/airs-articles/item/19104-deep-web-links-massive-deep-websites-links-and-url">https://www.airsassociation.org/services-new/airs-knowledge-network-n/airs-articles/item/19104-deep-web-links-massive-deep-websites-links-and-url</a>

Deep Web May Be 500 Times Bigger Than Normal Web

https://mobile.wnd.com/2018/09/deep-web-may-be-500-times-bigger-than-normal-web/

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Deep Web Search Engines to Explore the Hidden Internet by Rakesh Krishnan <a href="https://cdn.ampproject.org/c/s/amp.thehackernews.com/thn/2016/02/deep-web-search-engine.html">https://cdn.ampproject.org/c/s/amp.thehackernews.com/thn/2016/02/deep-web-search-engine.html</a>

Deep Web Technologies Launches Explorit! EBM, the leading Evidence-Based Medicine Search Engine for Medical Libraries

https://www.benzinga.com/pressreleases/18/06/r11847737/deep-web-technologies-launches-explorit-ebm-the-leading-evidence-based

Deep Web vs Dark Web: A Q&A with Internet Pioneer Marcus Zillman by Mason Lerner

https://community.spiceworks.com/topic/2081638-deep-web-vs-dark-web-a-q-a-with-internet-pioneer-marcus-zillman

Deep Web: What Is It and How To Access it? – The Ultimate Guide by Samantha Carter

https://darkwebnews.com/deep-web/

**Desperately Seeking Web Search 2.0** 

http://news.netcraft.com/archives/2004/04/23/desperately seeking web search 20.html

Digging Deeper into Deep Web Databases by Breaking Through the Top-k Barrier <a href="http://arxiv.org/abs/1208.3876">http://arxiv.org/abs/1208.3876</a>



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#### Resource Discovery Technologies for the Heritage Sector, June 2004

http://www.digicult.info/downloads/digicult\_thematic\_issue6.pdf

#### **Digital Shadows Launches Shadow Search**

https://www.darkreading.com/threat-intelligence/digital-shadows-launches-shadow-search/d/d-id/1332921

Digital Shadows Launches Shadow Search – Enabling Organizations to Self-Serve and Find Cyber Threats Against Them from Across The Open, Deep and Dark Web <a href="https://www.businesswire.com/news/home/20180926005135/en/Digital-Shadows-">https://www.businesswire.com/news/home/20180926005135/en/Digital-Shadows-</a>

Launches-Shadow-Search%E2%84%A2-%E2%80%93-Enabling

#### **Diving Into the Darknet by Michal Salat**

https://blog.avast.com/diving-into-the-darknet

#### Do's and Don'ts of the Dark Web by Martin Beltov

https://securityboulevard.com/2018/07/dos-and-donts-of-the-dark-web/

#### **Effective and Scalable Metasearch Project**

http://www.cs.binghamton.edu/~meng/metasearch.html

#### **Efficient Deep Web Crawling Using Reinforcement Learning**

http://link.springer.com/chapter/10.1007%2F978-3-642-13657-3 46

Everything You Need To Know About the Deep Web In One Simple Infographic

http://www.businessinsider.com/everything-you-need-to-know-about-the-deep-web-in-one-simple-infographic-2015-2

**Experiences In Crawling Deep Web In The Context Of Local Search** 

http://dl.acm.org/citation.cfm?id=1460016

### First Comprehensive Map of the Dark Web Reveals a Remarkable Antisocial Corner of the Internet by Matthew Hutson

http://www.sciencemag.org/news/2017/04/first-comprehensive-map-dark-web-reveals-remarkablyantisocial-corner-internet

#### **Grev Literature**

http://en.wikipedia.org/wiki/Gray literature



#### **Grey Literature Network Service (GreyNet)**

http://www.greynet.org/

#### Hackers Aggregating Data Leaks on the Dark Web

https://it.toolbox.com/article/hackers-aggregating-data-leaks-on-the-dark-web

#### Here Are the 10 Best Deep Web Search Engines by Kristen Hubby

http://www.dailydot.com/layer8/best-deep-web-search-engines/

#### How Does the Tor Browser Functions? By Ben Prince

http://www.technologynewsextra.com/how-does-the-tor-browser-functions/96041.html

## How To Access the Dark Web: What Is Tor and How Do I Access Dark Websites? By Victoria Woollaston

http://www.alphr.com/technology/1002667/how-to-access-the-dark-web-what-is-tor-and-how-do-i-use-it

#### How To Access the Dark Web by Brandt Ranj

http://www.independent.co.uk/life-style/gadgets-and-tech/how-to-access-the-dark-web-a7047041.html

#### How To Access the Dark Web by Tyler Lacoma

https://www.digitaltrends.com/computing/how-to-access-the-dark-web/

#### **How to Access the Dark Web (Deep Web)**

https://www.thedarkweblinks.com/how-to-access-the-dark-web/

#### **How To Access the Dark Web Using Tor by Cozmo**

http://mixance.com/how-to-access-the-dark-web-using-tor/

#### How To Access the Deep Web Anonymously by Ritika Tiwari

https://www.cloudwards.net/the-deep-web/

#### How To Access the Hidden Wiki?

http://talkdailynews.com/how-to-access-the-hidden-wiki/

#### How To Browse the Deep Web Using Tor on iPhone and iPad by Sumeet Sharma

 $\underline{http://www.iappnalysis.com/2015/04/browse-deep-web-on-iphone-ipad-using-tor-browser.html}$ 



### How To Do a Deep Web Search and Why You Should by Kelli Uhrich of Komando.com

http://www.komando.com/tips/396770/how-to-do-a-deep-web-search-and-why-you-should

How to Mine the Invisible Wev: The Ultimate Guide by Jerri Collins <a href="https://www.lifewire.com/mine-invisible-web-3482495">https://www.lifewire.com/mine-invisible-web-3482495</a>

#### How To Safely Access The Dark Web by David Nield

https://www.lifehacker.com.au/2018/03/how-to-search-the-deep-web-safely/

#### How To Tread Lightly Into The Dark Web by Logan Hochstetler

https://www.airsassociation.org/services-new/airs-knowledge-network-n/airs-articles/item/18649-how-to-tread-lightly-into-the-dark-web

#### How To Use a VPN with Tor

https://www.expressvpn.com/how-to-use-vpn/tor-vpn

#### How To Use the Secure Encrypted Tor Messenger by Ray Walsh

https://www.bestvpn.com/blog/30751/tor-project-releases-secure-encrypted-tor-messenger-how-to-use-it/

### If Your Data Is Found On the Dark Web, Firefox Monitor Will Let You Know by Chuong Nyguyen

https://www.digitaltrends.com/computing/firefox-monitor-lets-your-know-if-youve-been-pwned/

#### Inequality and the Intellectual Dark Web by Christian Alejandro Gonzalez

https://www.nationalreview.com/2018/05/intellectual-dark-web-members-united-views-inequality/

Information Retrieval and the Semantic Web by Tim Finin, James Mayfield, Clay Fink, Anupam Joshi, and R. Scott Cost

http://ebiquity.umbc.edu/paper/html/id/185/

#### In Search of the Deep Web

http://www.salon.com/2004/03/09/deep\_web/

### Intellectual Dark Web: New Movement or Just a Rebarnding of Old Ideas? By Kevin Dickinson

https://bigthink.com/kevin-dickinson/what-is-the-so-called-intellectual-dark-web.amp



#### IR and IE on the Web - PhD and MSc Dissertations

https://groups.yahoo.com/neo/groups/webir/infohttp://www.webir.org/

Is the Tor Browser Safe? Why Should You Use It? By Mohammed Mujtab https://technocodex.com/is-tor-browser-safe-why-should-you-use-it/

Journey Into the Dark by Jason Smith

https://medium.com/@jasisrad/journey-into-the-dark-8c7922a48265

Journey Into the Hidden Web: A Guide for New Researchers by Ryan Dube <a href="http://www.makeuseof.com/tag/journey-into-the-hidden-web-a-guide-for-new-researchers/">http://www.makeuseof.com/tag/journey-into-the-hidden-web-a-guide-for-new-researchers/</a>

Just the Tip of the Iceberg: Why You Should Be Monitoring the Deep Web <a href="http://www.information-age.com/technology/security/123461668/just-tip-iceberg-why-you-should-be-monitoring-deep-web">http://www.information-age.com/technology/security/123461668/just-tip-iceberg-why-you-should-be-monitoring-deep-web</a>

Lessons from the Deep Web That Could Lead To a More Secure IoT by Revathl Subramanian

http://blogs.ca.com/2015/04/02/lessons-from-the-deep-web-that-could-lead-to-a-more-secure-iot/?mrm=425878&cid=GLOB-SMM-ABUS-AAR-000002-00000571

Metadata? Thesauri? Taxonomies? Topic Maps! by Lars Marius Garshol http://www.ontopia.net/topicmaps/materials/tm-vs-thesauri.html

Mining Newsgroups Using Networks Arising From Social Behavior <a href="https://dl.acm.org/citation.cfm?id=775227">https://dl.acm.org/citation.cfm?id=775227</a>

Mining the Deep Web: Search Strategies That Work by Lee Ratzan <a href="http://www.computerworld.com/s/article/9005757/Mining\_the\_Deep\_Web\_Search\_strategies\_that\_work?pageNumber=1">http://www.computerworld.com/s/article/9005757/Mining\_the\_Deep\_Web\_Search\_strategies\_that\_work?pageNumber=1</a>

Mining Topic-Specific Concepts and Definitions on the Web <a href="http://www.cs.uic.edu/~liub/publications/WWW-2003.pdf">http://www.cs.uic.edu/~liub/publications/WWW-2003.pdf</a>

NASA Is Indexing the Deep Web to Show Mankind What Google Won't by Danielle Bronner

http://fusion.net/story/145885/nasa-is-indexing-the-deep-web-to-show-mankind-what-google-wont/



### **Next Generation TOR is Arriving and It Will Include a Distributed Random Number Generator**

 $\underline{http://security affairs.co/wordpress/47683/deep-web/distributed-tor-random-number-generator.html}$ 

### NYU-Poly Researcher Awarded DARPA Contract To Explore the Deep Web by Rhea Kelly

http://campustechnology.com/articles/2015/02/25/nyu-poly-researchers-awarded-darpa-contract-to-explore-the-deep-web.aspx

Onion Browser - An Open-Source Privacy Enhancing Web Browser for iOS <a href="https://mike.tig.as/onionbrowser/">https://mike.tig.as/onionbrowser/</a>

OnionLand Demystifying the Mystery of the Deep Web <a href="http://m.digitaljournal.com/pr/3927243">http://m.digitaljournal.com/pr/3927243</a>

**OntoMiner: Bootstrapping and Populating Ontologies From Domain Specific Web Sites** 

http://www.public.asu.edu/~hdavulcu/VLDB-WS03.pdf

OpenIndex - Creating a Public Internet Index http://www.openindex.org

Out-googling Google: Federated Searching and the Single Search Box http://library.marist.edu/ACRL/Foxhunt demo.html

Privacy, the Dark Web and Hacker Devices by Don Hawkins <a href="http://www.libconf.com/2018/04/18/privacy-the-dark-web-and-hacker-devices/">http://www.libconf.com/2018/04/18/privacy-the-dark-web-and-hacker-devices/</a>

Publications about Web Analysis, Web Search, Citation Indexing, Digital Libraries, Machine Learning, Neural Networks <a href="http://research.google.com/">http://research.google.com/</a>

QProber: Classifying and Searching "Hidden-Web" Text Databases <a href="http://www.ipeirotis.com/?project=qprober-classifying-and-searching-hidden-web-text-databases">http://www.ipeirotis.com/?project=qprober-classifying-and-searching-hidden-web-text-databases</a>

Really Private Browsing: An Unofficial User's Guide to Tor by Andre Infante <a href="http://www.makeuseof.com/tag/really-private-browsing-an-unofficial-users-guide-to-tor/">http://www.makeuseof.com/tag/really-private-browsing-an-unofficial-users-guide-to-tor/</a>



## Research Beyond Google: 56 Authoritative, Invisible, and Comprehensive Resources

http://oedb.org/ilibrarian/research-beyond-google/

#### Scan the Dark Web For Threat Intelligence by Michelle Drolet

https://www.csoonline.com/article/3245587/cyber-attacks-espionage/scan-the-dark-web-for-threat-intelligence.html

#### Scientific American: Featured Article: The Semantic Web In Action

https://www.scientificamerican.com/article/semantic-web-in-actio/

#### **Search Engine Meeting Archives**

http://www.SearchEngineMeeting.net/

#### Search Engine Technology and Digital Libraries

http://www.dlib.org/dlib/june04/lossau/06lossau.html

#### Searching the Dark Web for Business Intelligence by Robert Vamosi

https://www.forbes.com/sites/robertvamosi/2018/04/28/searching-the-dark-web-for-business-intelligence/

#### Searching the Deep Web by Alex Wright

http://mags.acm.org/communications/200810/?pg=16

#### **Searching the Deep Web**

http://www.dlib.org/dlib/january01/warnick/01warnick.html

#### **Searching the Deep Web - Video**

http://www.osti.gov/media/DeepWebVideo.html

### Searching the Internet 2018 – The Primer - 2019 Guide to Searching the Internet <a href="http://www.SearchingTheInternet.info/">http://www.SearchingTheInternet.info/</a>

Search Interfaces on the Web: Querying and Characterizing by Denis Shestakov https://www.doria.fi/handle/10024/38506

#### Seeing through the 'invisible' Web

http://usatoday30.usatoday.com/tech/2001/10/15/invisible-web-search.htm



### Semantic Web Content Accessibility Guidelines for Current Research Information Systems (CRIS) by A. Lopatenko

http://derpi.tuwien.ac.at/~andrei/AURIS DE.htm

#### Shining a Light on the So-Called Dark Web by Kate Knibbs

https://www.theringer.com/tech/2018/5/10/17339900/dark-web-lexicon

#### Staying Safe in the Shadow of the Dark Web

https://www.benzinga.com/pressreleases/18/05/p11804571/staying-safe-in-the-shadow-of-the-dark-web

Stop Talking About the Dark Web: Tor Project CoFounder Roger Dingledine <a href="https://technical.ly/philly/2017/05/15/dark-web-roger-dingledine/">https://technical.ly/philly/2017/05/15/dark-web-roger-dingledine/</a>

Structured Databases on the Web: Observations and Implications <a href="http://dl.acm.org/citation.cfm?id=1031584">http://dl.acm.org/citation.cfm?id=1031584</a>

#### **Testbed for Information Extraction from Deep Web**

http://research.microsoft.com/users/nickcr/pubs/yamada www2004poster.pdf

### The 10 Best Deep Web Search Engines to Explore the Hidden Web by Michelle Fuchs

https://www.airsassociation.org/services-new/airs-knowledge-network-n/airs-articles/item/17217-top-10-best-deep-web-search-engines-to-explore-hidden-web

The 10 Best Deep Web Search Engines to Explore Hidden Web by Issac Avila <a href="https://www.airsassociation.org/services-new/airs-knowledge-network-n/airs-articles/item/18749-top-10-best-deep-web-search-engines-to-explore-hidden-web">https://www.airsassociation.org/services-new/airs-knowledge-network-n/airs-articles/item/18749-top-10-best-deep-web-search-engines-to-explore-hidden-web</a>

#### The Black Market Report

https://www.armor.com/vantage-points/black-market-report/

The Darknet: A Quick Introduction for Business Leaders by Trey Degrassi https://hbr.org/2016/12/the-darknet-a-quick-introduction-for-business-leaders

The Dark Web and How To Access It by MacKenzie Sigalos https://www.cnbc.com/2018/04/13/the-dark-web-and-how-to-access-it.html

The Dark Web: What Every Parent Should Know by Cybermum Australia <a href="https://securingtomorrow.mcafee.com/consumer/family-safety/dark-web-what-every-parent-should-know/">https://securingtomorrow.mcafee.com/consumer/family-safety/dark-web-what-every-parent-should-know/</a>



### The Dark Web? Why Small Businesses Should Concern Themselves With the Threat by Jim Anderson

https://www.entrepreneur.com/article/320347

#### The Deep Web May Be 500 Times Bigger Than the Normal Web

https://www.cnbc.com/2018/09/06/beyond-the-valley-understanding-the-mysteries-of-the-dark-web.html

### The Deep Web: Surfacing Hidden Value by Michael K. Bergman

http://quod.lib.umich.edu/j/jep/3336451.0007.104?view=text;rgn=main

### The Deep Web: What's Lurking in the Underbelly of the Internet? By Michelle Alvarez

 $\underline{http://security intelligence.com/the-deep-web-whats-lurking-in-the-underbelly-of-the-internet/\#.VUIUNmfD9D8}$ 

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zillman@VirtualPrivateLibrary.com

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FDsys - Search Across Multiple Government Databases http://www.gpo.gov/fdsys/

King County Library System http://www.kcls.org/

NLM Gateway Search <a href="http://www.cf.nlm.nih.gov/hsr">http://www.cf.nlm.nih.gov/hsr</a> project/home proj.cfm

SUMSearch 2 [Health Sciences] http://sumsearch.org/

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Bright Planet – Deep Web Intelligence http://brightplanet.com/

Copernic

http://www.copernic.com/

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EEVL Xtra - Cross Database Search http://www.ariadne.ac.uk/issue44/eevl/

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http://www.niso.org/workrooms/mi

#### MuseGlobal

http://www.museglobal.com/

#### **Peter's PolySearch Engines**

http://www2.hawaii.edu/~jacso/extra/poly-page.html

#### PBCore - The Public Broadcasting Metadata Dictionary

http://www.pbcore.org/

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http://www.public.iastate.edu/~CYBERSTACKS/KBL.htm

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http://www.osti.gov/

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http://www.loc.gov/standards/sru

#### The Flamenco Search Interface Project

http://flamenco.berkeley.edu/

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http://www.bigchampagne.com/

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### FAROO - P2P Web Search

http://www.faroo.com/

### FilesOverMiles - Browser to Browser File Sharing (P2P) http://www.filesovermiles.com/

# Filetopia - File sharing tool with public key encryption <a href="http://www.filetopia.org/">http://www.filetopia.org/</a>

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http://www.imdb.com/

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http://www.cs.unibo.it/projects/anthill/

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http://freenetproject.org/

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http://www.transmissionbt.com/

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http://www.DeepDotWeb.com/

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https://data.europa.eu/euodp/en/home

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http://federatedsearchblog.com/

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https://monitor.firefox.com/

#### Freely Accessible Databases for the Public

http://www.istl.org/01-winter/internet.html

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http://www.google.com/drive/apps.html#fusiontables

#### **Google Scholar**

http://scholar.google.com/

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http://www.kdnuggets.com/

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http://www.oclc.org/oaister.en.html

### OECD.StatExtracts - Complete Databases Available Via OECD's iLibrary https://data.oecd.org/

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https://www.omnity.io/

#### **OneLook Dictionary Search**

http://www.onelook.com/

#### Onion Browser - An Open-Source Privacy Enhancing Web Browser for iOS

https://mike.tig.as/onionbrowser/

#### **OnionLand Search Engine**

https://onionlandsearchengine.com/

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http://www.openarchives.org/

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http://www.DataPortals.org/

https://github.com/caesar0301/awesome-public-datasets

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https://www.data.gov/

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http://www.OERSources.com/ http://www.OERSearchEngine.com/

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http://www.openindex.org/

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http://www.oss.net/

#### **Open Vulnerability Assessment System (OpenVAS)**

http://www.darknet.org.uk/2015/01/openvas-7-released-open-source-vulnerability-scanner/

#### **Privacy Resources 2019**

http://www.PrivacyResources.info/

#### Project Maelstrom - The Internet We Build Next

http://blog.bittorrent.com/category/labs/

#### re3data.org - 2,000 Data Repositories

https://www.re3data.org/

#### Recommended Gateway Sites for the Deep Web

http://people.hws.edu/hunter/deepwebgate03.htm

#### ReportLinker: Industry Reports, Company Profiles and Market Statistics

http://www.reportlinker.com/

#### SAO/NASA Astrophysics Data System (ADS)

http://adswww.harvard.edu/

#### reSearcher

http://researcher.sfu.ca/

#### Science and Technology Sources on the Internet

http://www.loc.gov/rr/scitech/resources.html



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#### **Scientific and Technical Information Network (STINET)**

http://www.loc.gov/flicc/Exemplars/DTIC/DTIC-STINET.PDF

#### **Science Commons**

http://creativecommons.org/science

#### Science.gov - FirstGov for Science - Government Science Portal

http://www.science.gov/

#### ScienceResearch.com - Deep Web Search Engine

http://www.scienceresearch.com/

#### Scientific Data Repository - Real Time Visualization and Exploration Techniques

http://www.mlvis.com/platform.php

#### SciTech Connect

http://www.osti.gov/scitech/

#### Scrapinghub Crawls the Deep Web

http://blog.scrapinghub.com/2015/02/24/memex/

#### **Scrapy Webcrawler**

http://scrapy.org/

#### SDARTS - A Protocol and Toolkit for Metasearching

http://www.cs.columbia.edu/~gravano/Papers/2001/jcdl01b.pdf

#### SIMILE Widgets - Free, Open-Source Data Visualization Web Widgets and More

http://simile-widgets.org/

#### Social Buzz Bot 2018 (PDF download)

http://www.SocialBuzzBot.com/

#### STN International - Databases in Science and Technology

http://www.stn-international.de/

#### **SurfEasy - Online Privacy**

https://www.surfeasy.com/

#### **Swoogle - Semantic Bot**

https://en.wikipedia.org/wiki/Swoogle



#### **SWRC Ontology**

http://ontoware.org/swrc/

#### Tails - The Amnesic Incognito Live System

https://tails.boum.org/

### TechDeepWeb - How-To Guide to the Deep Web for IT Professionals

http://www.TechDeepWeb.com/

### **Terbium Labs - Matchlight Proactive Security In an Insecure World**

https://terbiumlabs.com/

#### **Testbed for Information Extraction from Deep Web**

http://research.microsoft.com/users/nicker/pubs/yamada www2004poster.pdf

### The 10 Best Deep Web Search Engines to Explore the Hidden Web by Michelle Fuchs

https://www.airsassociation.org/services-new/airs-knowledge-network-n/airs-articles/item/17217-top-10-best-deep-web-search-engines-to-explore-hidden-web

#### The Deep Web: Shutdowns, New Sites, New Tools by Vincenzo Ciancaglini

http://blog.trendmicro.com/trendlabs-security-intelligence/the-deep-web-shutdowns-new-sites-new-tools/

#### **The Enterprise Onion Toolkit**

https://github.com/alecmuffett/eotk

#### The Invisible Internet Project (I2P)

https://geti2p.net/en/

#### The World Bank - Data

http://data.worldbank.org/

#### **THOR: Deep Web Data Extraction**

http://www.cc.gatech.edu/projects/disl/THOR/

#### Top 10 Best Deep Web Search Engines To Explore the Hidden Web

https://www.airsassociation.org/services-new/airs-knowledge-network-n/airs-articles/item/18749-top-10-best-deep-web-search-engines-to-explore-hidden-web

#### **Tor Browser Bundle – Anonymity**

https://www.torproject.org/projects/torbrowser.html.en



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#### TOR For Newbies - When Should You Use It?

http://www.makeuseof.com/tag/tor-for-newbies/

#### **Tor Project**

https://www.torproject.org/

#### **Tor Stack Exchange**

http://tor.stackexchange.com/

#### TRID - The TRIS and ITRD Database (Transportation Research Board)

http://trid.trb.org/

#### TunnelBear - Simple, Private, Free Access to the Global Internet

https://www.tunnelbear.com/

#### Twitter/Search #deepweb

https://twitter.com/search?q=%23deepweb

#### **UC Irvine Machine Learning Repository**

https://archive.ics.uci.edu/ml/index.php

#### **UNdata - Data Access System To UN Databases**

http://data.un.org/

#### **UNESCO Information Services - Databases**

http://www.unesco.org/unesdi/index.php/eng/doc/tous.html

#### **United States Census Bureau Research**

https://www.census.gov/research/

#### **Useful Tips and Tools to Research the Deep Web**

http://www.online-college-blog.com/features/100-useful-tips-and-tools-to-research-the-deep-web/

#### **US Government Web Services and XML Data Sources**

http://usgovxml.com/

#### **Virtual Private Networks Directory of Best Services**

http://www.makeuseof.com/tag/best-vpn-services/



#### **Wall Street Executive Library**

http://www.executivelibrary.com/

#### Web Data Extractors 2018

http://www.WebDataExtractors.com/

#### WebFountain<sup>TM</sup> - Analytical engine unstructured data

http://en.wikipedia.org/wiki/IBM WebFountain

#### Web IR & IE

https://groups.yahoo.com/neo/groups/webir/info http://www.webir.org/

#### WebScales: Towards a Highly Scalable Metasearch Engine

http://www.cs.binghamton.edu/~meng/pub.d/PIreport04.html

#### What Is a VPN - Beginner's Guide to Virtual Private Networks

https://www.vpnsrus.com/what-is-a-vpn/

#### **Wolfram Data Respository**

https://datarepository.wolframcloud.com/

#### **WTO Statistics Database**

http://stat.wto.org/

#### Zaba Search – Free People Search and Public Information Search Engine

http://www.zabasearch.com/

#### **Zanran - Search the Web for Data and Statistics**

http://www.zanran.com/

#### Zeef - Deep Web Links

https://zeef.com/?query=deep%20web&in=all

#### **RESOURCES – Semantic Web Research**

#### **Analyzing Social Networks on the Semantic Web**

http://ebiquity.umbc.edu/paper/html/id/202/?EBS=d259cb1bacc16993d8f13615a1925762



#### DARPA Agent Markup Language

http://www.daml.org/

### Deep Search, Wide Search and Everything Else You Should Know About Semantic Search

http://www.dataversity.net/deep-search-wide-search-everything-else-know-semantic-search/

#### **Digital Object Identifier (DOI)**

http://www.doi.org/

#### **FOAF Project - A Semantic Web Application**

http://www.foaf-project.org/

#### Foundation for Intelligent Physical Agents (FIPA)

http://www.fipa.org/

#### GoodRelations Vocabulary - Semantic Web Based eCommerce

http://www.heppnetz.de/projects/goodrelations/

#### **Infomesh's Semantic Web Introduction**

http://infomesh.net/2001/swintro/

#### International Journal of Metadata, Semantics and Ontologies (IJMSO)

http://www.inderscience.com/jhome.php?jcode=ijmso

#### Jena - A Semantic Web Framework for Java

http://jena.sourceforge.net/

#### **Journal of Biomedical Semantics**

http://www.ibiomedsem.com/

#### **Journal of Web Semantics**

http://www.journals.elsevier.com/journal-of-web-semantics

#### Journal of Web Semantics: Preprint Server

http://www.websemanticsjournal.org/

#### **Knowledge Discovery 2018**

http://www.KnowledgeDiscovery.info/



#### KnowledgeNets

http://wissensnetze.ag-nbi.de/

## Language Engineering for the Semantic Web: A Digital Library for Endangered Languages

http://informationr.net/ir/9-3/paper176.html

## Magpie - The Samatic Filter and Tool For the Semantic Web

http://projects.kmi.open.ac.uk/magpie/main.html

#### MetaData at W3C

http://www.w3.org/Metadata/

#### MindRaider - Semantic Web Outliner

http://mindraider.sourceforge.net/

## **OASIS - Advancing eBusiness Standards**

https://www.oasis-open.org/

## Ontology Metadata Vocabulary (OMV)

http://omv2.sourceforge.net/

### O'Reilly's Semantic Web Primer

http://www.xml.com/pub/a/2000/11/01/semanticweb/

## pOWL - Semantic Web Development Plattform

http://sourceforge.net/projects/powl/

## **RDF - Resource Description Framework**

http://www.w3.org/RDF/

### Rules and Rule Markup Languages for the Semantic Web - RuleML-2003

http://www.informatik.uni-trier.de/~ley/db/conf/semweb/ruleml2003.html

#### SameAs.org - Interlinking the Web of Data

http://sameas.org/

## SAO/NASA Astrophysics Data System (ADS)

http://adswww.harvard.edu/



#### SemanticDeskTop.org

http://www.SemanticDeskTop.org/

## Semantic Knowledge Technologies and Language Computation http://gate.ac.uk/projects/sekt/

## **SemanticWeb.org - The Semantic Web Community Portal** http://www.semanticweb.org/

## **Semantic Web Activity Statement**

http://www.w3.org/2001/sw/Activity.html

## **Semantic Web Application Platform - SWAP**

http://www.w3.org/2000/10/swap/

#### **Semantic Web for AURIS-MM**

http://derpi.tuwien.ac.at/~andrei/AURIS-MM-plan.html

#### Semantic Web In Breadth

http://logicerror.com/semanticWeb-long

## **Semantic Web Primer for Object-Oriented Software Developers**

http://www.w3.org/TR/2006/NOTE-sw-oosd-primer-20060309/

#### **Semantic Web Roadmap**

http://www.w3.org/DesignIssues/Semantic.html

## **Semantic Web Search Engine**

http://ws.nju.edu.cn/falcons/objectsearch/index.jsp

#### **Semantic Web Search Engine (SWSE)**

http://www.swse.org/

## Semantic Web - The Voice of Semantic Web Technology

http://www.semanticweb.com/

#### **Semantic Web W3C**

http://www.w3.org/2001/sw/

## SenseBot - Semantic Search Engine That Finds Sense On the Web

http://www.sensebot.net/



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## Simile Widgets – Free, Open-Source Data Visualization Web Widgets and More http://simile-widgets.org/

#### **Sindice - The Semantic Web Index**

http://sindice.com/

SourceForge.net: Project Info - OWL API

http://sourceforge.net/projects/owlapi

**Swoogle - Semantic Bot** 

https://en.wikipedia.org/wiki/Swoogle

SWRL: A Semantic Web Rule Language Combining OWL and RuleML http://www.daml.org/2003/11/swrl/

Terbium Labs - Matchlight Proactive Security In an Insecure World <a href="https://terbiumlabs.com/">https://terbiumlabs.com/</a>

The Authoritative Resource List for the Semantic Web by Kaila Strong <a href="http://www.verticalmeasures.com/search-optimization/the-authoritative-resource-list-for-the-semantic-web/">http://www.verticalmeasures.com/search-optimization/the-authoritative-resource-list-for-the-semantic-web/</a>

#### The Cover Pages

http://xml.coverpages.org/

The Semantic Web: An Introduction

http://infomesh.net/2001/swintro/

The Semantic Web By Tim Berners-Lee, James Hendler and Ora Lassila http://www.scientificamerican.com/article.cfm?id=the-semantic-web

The Semantic Web Is Your Friend

http://web.freepint.com/go/newsletter/160#feature

Transforming and Enriching Documents for the Semantic Web by Dietmar Roesner, Manuela Kunze, Sylke Kroetzsch

http://arxiv.org/abs/cs.AI/0501096

uClassify - Free Text Classified Web Service <a href="http://uclassify.com/">http://uclassify.com/</a>



## Watson Web - Exploring the Semantic Web

http://watson.kmi.open.ac.uk/WatsonWUI/

Web Semantics: Science, Services and Agents on the World Wide Web

http://www.sciencedirect.com/science/journal/15708268

**Web Service Modeling Ontology** 

http://www.wsmo.org/

Wilbur Toolkit for Semantic Web Programming [Project no longer actively maintained]

http://wilbur-rdf.sourceforge.net/

World Wide Web Reference 2018

http://www.WWWReference.info/

XML.com: Semantic Web

http://www.xml.com/pub/2000/11/01/semanticweb/

XML.org

http://www.xml.org/

Yahoo Groups - SemanticWeb

http://groups.yahoo.com/group/semanticweb/

## **Bot and Intelligent Agent Research Resources and Sites**

1st Spot

http://1st-spot.net/topic agents.html

80legs - Powerful and Economical Service Platform for Crawling and Processing Web Content

http://www.80legs.com/

**Advobot - Instant Documents** 

https://advobot.co/

**Agent Construction Tools** 

http://www.agentbuilder.com/



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## AgentLink

http://www.AgentLink.org/

#### Agents

http://aitopics.org/

## **AgentSheets - Authoring Tool to Create Agents**

http://www.agentsheets.com/

#### AhrefsBot - Market Research Bot

https://ahrefs.com/robot

#### **ALICEBot**

http://www.alicebot.org/

## api.ai - Speech Interface for Apps and Devices

http://api.ai/

## **Applied Soft Computing**

http://www.sciencedirect.com/science/journal/15684946

## **Article Search API - New York Times Articles 1981 to Present**

http://developer.nytimes.com/docs/article\_search\_api

## **Artificial Intelligence Resources 2018**

http://www.AIResources.info/

## artoo.js - The Client-Side Scraping Companion

http://medialab.github.io/artoo/

## BEN Portal: BioSciEdNet

www.biosciednet.org/portal

## **BotAnalytics - Analytics for Bots**

http://botanalytics.co/

## **Bot and Intelligent Agent Research Resources 2018**

http://www.BotResearch.info/

#### **Botometer**

https://botometer.iuni.iu.edu/



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#### **Bots, Blogs and News Aggregators 2018**

http://www.BotsBlogs.com

## **Caffe - Deep Learning Framework**

http://caffe.berkeleyvision.org/

## **Chatbase - Analyze and Optimize Bots More Easily**

https://chatbase.com/

#### ChatBottle Search

https://chatbottle.co/

#### **ChatterBot - Convert More Customers Automatically**

https://chtb.io/

#### **ChatterBots Resources and Sites 2018**

http://www.ChatterBots.info/

#### Chatfuel - Build a Facebook Bot Without Coding

https://chatfuel.com/

## **Clara - Digital Employee That Schedules Meetings**

https://claralabs.com/

## **Comet - Supercharge Machine Learning**

https://www.comet.ml/

## Common Crawl - Open Repository of Web Crawl Data Composed Of Over 5 Billion Freely Available Web Pages

http://www.CommonCrawl.org/

## ContusBot - Build Chatbots Super-Charged With Artificial Intelligence

https://www.contus.com/

## **Contentmine - Text and Data Mining Open Source Tools**

http://contentmine.org/

## **cQuery - Content Query Engine**

http://cquery.com/

### **CrawlTrack - Your Web Statistics Tool**

http://www.crawltrack.net/



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## Create a Crawler - Extract Data From an Entire Website http://import.io/

## **Data Mining Resources 2018**

http://www.DataMiningResources.info/

### **Dataminr - Real-time Information Discovery**

http://www.dataminr.com/

## DataparkSearch Engine - Full-Featured Open Source Web-Based Search Engine http://www.dataparksearch.org/

## **DataRobot - Build Better Predictive Models - Faster**

http://www.datarobot.com/

## Deep Web Research 2018

http://www.deepwebresearch.info/

# Design of a Parallel and Distributed Web Search Engine by Salvatore Orlando, Raffaele Perego, and Fabrizio Silvestri

http://arxiv.org/abs/cs.IR/0407053

## **Dictionary of Algorithms and Data Structures**

http://xlinux.nist.gov/dads//

## **Diffbot Analyze API**

https://www.diffbot.com/dev/docs/analyze/

## **Digital Footprints - Collect Facebook Data**

http://digitalfootprints.dk/

#### **Ejenta - Intelligent Agents for Connected Care**

https://www.ejenta.com/

#### Eliza - The Original ChatterBot

http://www-ai.ijs.si/eliza/eliza.html

## **Engati - Bot Innovation**

http://engati.com/

## **Ethereum Frontier Release - A Decentralized Software Platform**

https://www.ethereum.org/



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## **EU Open Data Portal**

https://data.europa.eu/euodp/en/home

## **EventBots by Sciensio**

https://www.sciensio.com/eventbots

## Facepager - Fetching Public Data From Facebook

https://github.com/strohne/Facepager

## FAME (Facilitating Agents in Multiculture Exchange)Project

http://cordis.europa.eu/projects/rcn/58337 en.html

## **File Information Tool Set (FITS)**

http://fitstool.org/

## Findo - An Intelligent Search Assistant

https://findo.com/

## **Foundation for Intelligent Physical Agents**

http://www.fipa.org/

## Free Robots.txt Generator and Validator

http://www.toolsiseek.com/robots-txt-generator-validator

#### Friends of ChatBot Coalition

https://www.fcc.ai/

## **Google Guide**

http://www.googleguide.com/

#### **Gupshup - Bot Building Platform**

https://www.gupshup.io/

# **HAIKU - Open Source Operating System That Specificially Targets Personal Computing**

https://www.haiku-os.org/

#### Healthdata.gov

https://www.healthdata.gov/

#### How to Make a Web Crawler With Selenium

https://www.makeuseof.com/tag/make-web-crawler-selenium/



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## **Huginn - Your Agents Are Standing By**

https://github.com/cantino/huginn

## HYPHE - Web Corpus Curation Tool Featuring A Research-Driven Web Crawler <a href="http://hyphe.medialab.sciences-po.fr/">http://hyphe.medialab.sciences-po.fr/</a>

#### **IBM Watson Services**

http://www.ibm.com/smarterplanet/us/en/ibmwatson/developercloud/services-catalog.html

## idavatars - Intelligent Digital Avitars

http://idavatars.com/

#### IFR - Federation of Robotics

https://ifr.org/

## **Imagination Engines**

http://www.imagination-engines.com/

## Import.io - Turn the Web Into Data With Extractors, Crawlers and Connectors <a href="https://import.io/">https://import.io/</a>

### **Indexing Robot Crawler Checklist**

http://www.searchtools.com/robots/robot-checklist.html

## **Indiegogo Datasets**

https://webrobots.io/indiegogo-dataset/

# InfoExtractor - Extract Relevant Information from Various Sources Like Blogs, YouTube, and Wikipedia

http://www.infoextractor.org/

#### **Institute for Human and Machine Cognition (IHMC)**

http://www.ihmc.us/

# Intellexer - Custom Built Search Engines, Knowledge Management Tools, Natural Language Processing

http://www.intellexer.com/

## **Intelligent Information Systems Research Laboratory**

http://iis.ist.psu.edu/



## **International Journal of Agent-Oriented Software Engineering (IJAOSE)**

http://www.inderscience.com/jhome.php?jcode=ijaose

## jSEO - Web Crawler For Search Engine Optimization

http://codecanyon.net/item/jseo-web-crawler-for-search-engine-optimization/8770392

### **Keras: The Python Deep Learning Library**

https://keras.io/

#### **Kickstarter Datasets**

https://webrobots.io/kickstarter-datasets/

#### **Knowledge Discovery 2018**

http://www.knowledgediscovery.info/

## LAIR - Laboratory of Applied Informatics Research

http://lair.unc.edu/

## List of User-Agents (Spiders, Robots, Crawler, Browser)

http://www.user-agents.org/index.shtml

## **Ludwig - Find Your Sentence**

https://ludwig.guru/

## Lurchr - I Keep Track of What's Shared by Your Team So You Can Stay Focused On Work

https://lurchr.com/

# MindMeld - Advanced Artificial Intelligence To Power the New Generation of Intelligent Conversational Interfaces

https://www.mindmeld.com/

## Minimal-Intelligence Agents for Bargaining Behaviors in Market-Based Environments by Dave Cliff and Janet Bruten

http://www.hpl.hp.com/techreports/97/HPL-97-91.html

## **MIT Media Lab: Software Agents**

http://agents.media.mit.edu/index.html

### **Modelling and Mining of Network Information Systems**

http://www.mathstat.dal.ca/~mominis/index.html



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# Motion AI – ChatBots and Artificial Intelligence Made Easy <a href="http://motion.ai/">http://motion.ai/</a>

## Mozenda Web Agent Builder - Web Data Extraction http://www.mozenda.com/

## MultiAgent

http://www.MultiAgent.com/

## **MySpiders**

http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.21.3013

#### **NCapture - Capture Web Content**

http://www.qsrinternational.com/products nvivo add-ons.aspx

## Networks and agents Network (NaN)

http://cnets.indiana.edu/groups/nan/

#### NewsBot - Related News At a Click Of a Button

https://getnewsbot.com/

## **Open Source Web Information Retrieval (OSWIR05)**

http://www.emse.fr/OSWIR05/

## oSkope Visual Search

http://oskope.com/

## **Oxyus Open Source Search Engine**

http://sourceforge.net/projects/oxyus/

#### Postfire - AI Powered Social Media Assistant

https://postfire.co/

## **ProBot - Automate and Improve Your Workflow**

https://probot.github.io/

#### **Rank Dynamics - Make Your Search Dynamic**

http://www.rankdynamics.com/

### ResearchKit Framework - Medical Research Apps

https://github.com/ResearchKit



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## **Robo Brain - Large Scale Computational System That Learns from Publicly Available Internet Resources**

http://robobrain.me/

## Sciensio - AI Specific Events Chatbots

https://www.sciensio.com/eventbots

## Scrapple - A Framework For Creating Web Scrapers and Web Crawlers

https://pypi.python.org/pypi/scrapple

#### **Search Engine Robots**

http://www.jafsoft.com/searchengines/webbots.html

## **Search Engine Watch News**

http://www.searchenginewatch.com/

#### **Search Tools - Information Guides and News**

http://www.searchtools.com/

#### SeerSuite - CiteSeerX Toolkit

http://sourceforge.net/projects/citeseerx/

#### Semantic Web

http://www.semanticweb.org/

## **ShoppingBots 2018**

http://www.ShoppingBots.info/

#### Siri - Your Virtual Personal Assistant

http://www.apple.com/ios/siri/

#### **Sisense Bot Framework**

https://www.sisense.com/product/impact/bot/

#### **Smarter Bots 2018**

http://www.SmarterBots.com/

## SocialBuzzBot 2019- The Business and Social Intelligence Search Engine for Information Discovery from Social Communities

http://www.SocialBuzzBot.com/



#### SocSciBot - Social Sciences Link Analysis Research

http://socscibot.wlv.ac.uk/

## **Spidering Hacks**

http://www.oreilly.com/catalog/spiderhks/

STACKS - Social Media Tracker, Analyzer, & Collector Toolkit at Syracuse https://github.com/bitslabsyr/stack

## Structure and Interpretation of Computer Programs - Video Lectures by Hal Abelson and Gerald Jay Sussman

http://groups.csail.mit.edu/mac/classes/6.001/abelson-sussman-lectures/

## SupportBots - Chatbots for MSP and IT Service Providers

http://www.supportbots.io/

## Supybot, A Superb Python IRC Bot

http://freecode.com/projects/supybot?branch\_id=31808&release\_id=181322

## **Surf Canyon Search Engine**

http://www.surfcanyon.com/

## **Swirlds - The Platform for Distributed Applications**

http://www.swirlds.com/

#### **Swoogle - Semantic Bot**

https://en.wikipedia.org/wiki/Swoogle

# TextRunner Search - Searches Hundreds of Millions of Assertions Extracted from 500 Million High-Quality Web Pages

http://openie.cs.washington.edu/

#### The Essential Landscape of Enterprise AI Companies

https://www.topbots.com/essential-landscape-overview-enterprise-artificial-intelligence/

## The Intelligent Software Agents Lab

http://www.cs.cmu.edu/~softagents/

## The Lemur Toolkit - Language Modeling and Information Retrieval Research <a href="http://www.lemurproject.org/">http://www.lemurproject.org/</a>



## The Search Engine Project (TSEP)

http://freecode.com/projects/tsep

## The Simon Lavern Page

http://www.simonlaven.com/

## Transcriptic - Discovery Biology On Demand

https://www.transcriptic.com/

## **TSEP - The Search Engine Project**

http://www.tsep.info/

## **UC Irvine Machine Learning Repository**

https://archive.ics.uci.edu/ml/index.php

## **UMBC AgentWeb**

http://agents.umbc.edu/

## **UMBC** eBiquity

http://ebiquity.umbc.edu/

#### **Universe - Measurement and Training for Artificial Intelligence**

https://universe.openai.com/

## **Web Curator Tool (WCT)**

http://webcurator.sourceforge.net/

#### Web Data Extractors 2018

http://www.WebDataExtractors.com/

## **Web Intelligence Consortium**

http://wi-consortium.org/

#### Web IR & IE

https://groups.yahoo.com/neo/groups/webir/info

http://www.webir.org/

# WolframAlpha Computational Knowledge Engine - Trillions of Pieces of Curated Data and Millions of Lines of Algorithms

http://www.wolframalpha.com/



# Xenioo - Professional Chatbot Platform for Your Business <a href="https://www.xenioo.com/">https://www.xenioo.com/</a>

Zanran - Search the Web for Data and Statistics <a href="http://www.zanran.com/">http://www.zanran.com/</a>



## **Subject Tracer<sup>TM</sup> Information Blogs**

Subject Tracer<sup>TM</sup> Information Blogs created and developed by the Virtual Private Library<sup>TM</sup> combine the best of the latest tools on the Internet. Using bots, blogs and news aggregators the Subject Tracer<sup>TM</sup> Information blogs generate RSS feeds with the latest resources to create a current information resource flow through niched subject tracers. I am proud to be the creator of the Internet's first Subject Tracer<sup>TM</sup> Information Blogs:

Virtual Private Library<sup>TM</sup> <a href="http://www.VirtualPrivateLibrary.com/">http://www.VirtualPrivateLibrary.com/</a>

Accessibility Resources http://www.AccessibilityResources.info/

Agriculture Resources
<a href="http://www.AgricultureResources.info/">http://www.AgricultureResources.info/</a>

AnswerSpot http://www.AnswerSpot.us/

Artificial Intelligence Resources <a href="http://www.AIResources.info/">http://www.AIResources.info/</a>

Astronomy Resources <a href="http://www.AstronomyResources.info/">http://www.AstronomyResources.info/</a>

Auction Resources http://www.AuctionResources.info/

Biological Informatics <a href="http://www.BiologicalInformatics.info/">http://www.BiologicalInformatics.info/</a>

Biotechnology Resources http://www.BiotechnologyResources.info/

Bot Research <a href="http://www.BotResearch.info/">http://www.BotResearch.info/</a>

Business Intelligence Resources <a href="http://www.BIResources.info/">http://www.BIResources.info/</a>



#### ChatterBots

http://www.ChatterBots.info/

Data Mining Resources

http://www.DataMiningResources.info/

Deep Web Research

http://www.DeepWebResearch.info/

**Directory Resources** 

http://www.DirectoryResources.info/

eCommerce Resources

http://eCommerceResources.info/

Education and Academic Resources

http://www.EducationResources.info/

Elder Resources

http://www.ElderResources.info/

Employment Resources

http://www.EmploymentResources.info/

Entrepreneurial Resources

http://www.EntrepreneurialResources.info/

Fact Checkers Directory

http://www.FactCheckers.us/

Financial Sources

http://www.FinancialSources.info/

Finding People

http://www.FindingPeople.info/

Games Resources

http://www.GamesResources.info/

Genealogy Resources

http://www.GenealogyResources.info/



Deep Web Research and Discovery Resources 2018

[Updated: October 1, 2018] http://DeepWeb.us/

zillman@VirtualPrivateLibrary.com

eVoice: 800-858-1462

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Grant Resources

http://www.GrantResources.info/

Green Files

http://www.GreenFiles.info/

Grid, Distributed and Cloud Computing Resources

http://www.GridResources.info/

Healthcare Resources

http://www.HealthcareResources.info/

Information Futures Markets

http://www.InformationFuturesMarkets.com/

Information Quality Resources

http://www.InformationQualityResources.info/

**International Trade Resources** 

http://www.InternationalTradeResources.info/

**Internet Alerts** 

http://www.InternetAlerts.info/

**Internet Demographics** 

http://www.InternetDemographics.info/

**Internet Experts** 

http://www.InternetExperts.info/

Internet Hoaxes

http://www.InternetHoaxes.info/

Intrapreneurial Resources

http://www.IntrapreneurialResources.info/

Journalism Resources

http://www.JournalismResources.info/

Knowledge Discovery

http://www.KnowledgeDiscovery.info/



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Military Resources
<a href="http://www.MilitaryResources.info/">http://www.MilitaryResources.info/</a>

New Economy Analytics, Resources and Alerts <a href="http://www.NewEconomyAnalytics.com/">http://www.NewEconomyAnalytics.com/</a>

Outsourcing/Offshoring Information and Resources http://www.OutsourcingOffshore.us/

Privacy Resources <a href="http://www.PrivacyResources.info/">http://www.PrivacyResources.info/</a>

Reference Resources http://www.ReferenceResources.info/

Research Resources <a href="http://www.ResearchResources.info/">http://www.ResearchResources.info/</a>

RestStress<sup>TM</sup> http://www.RestStress.com/

Script Resources http://www.ScriptResources.info/

ShoppingBots <a href="http://www.ShoppingBots.info/">http://www.ShoppingBots.info/</a>

Social Informatics <a href="http://www.SocialInformatics.info/">http://www.SocialInformatics.info/</a>

Statistics Resources and Big Data http://www.StatisticsResources.info/

Student Research <a href="http://www.StudentResearch.info/">http://www.StudentResearch.info/</a>

Theology Resources <a href="http://www.TheologyResources.info/">http://www.TheologyResources.info/</a>

Tutorial Resources <a href="http://www.TutorialResources.info/">http://www.TutorialResources.info/</a>



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eVoice: 800-858-1462

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# World Wide Web Reference http://www.WWWReference.info/

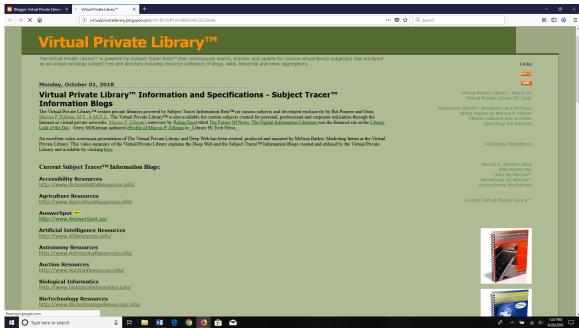


Figure 1: Virtual Private Library<sup>TM</sup>

**Author Information:** Marcus P. Zillman, M.S., A.M.H.A. Executive Director of the Virtual Private Library is an international Internet expert, author, keynote speaker and corporate consultant in the area of information retrieval, knowledge discovery, knowledge harvesting, artificial intelligence and bots/intelligent agents. He has created numerous world wide web sites including 54 Subject Tracer<sup>TM</sup> Information Portals and Blogs; written a number of internet miniguides, white papers, manuals and books; hosted over 160 weekly Internet television shows, writes a weekly and monthly column on Current Awareness on the Internet; writes a monthly newsletter Awareness Watch and delivers keynote presentations throughout the international marketplace. He also actively delivers one and two day workshops for key industry sectors displaying how the Internet can be used as a tool to maintain current awareness and professional competencies.

Additional websites by Marcus P. Zillman, M.S., A.M.H.A.:

Marcus P. Zillman's Blog (20,000+ Postings) http://www.zillman.us/

Marcus P. Zillman Abbreviated Bio <a href="http://www.zillman.info/">http://www.zillman.info/</a>



White Papers by Marcus P. Zillman http://www.WhitePapers.us/

Internet MiniGuides<sup>TM</sup> http://www.InternetMiniguide.com/

Awareness Watch<sup>TM</sup> Newsletter http://www.AwarenessWatch.com/

Marcus P. Zillman's Columns <a href="http://www.ZillmanColumns.com">http://www.ZillmanColumns.com</a>

LinkSeries Publications <a href="http://www.LinkSeries.com/">http://www.LinkSeries.com/</a>

Links By Marcus<sup>TM</sup> http://www.LinksByMarcus.com/

Workshops By Marcus<sup>TM</sup> <a href="http://www.WorkshopsByMarcus.com/">http://www.WorkshopsByMarcus.com/</a>

SourceSeries Internet Research Workshops http://www.SourceSeries.com/

## Research White Papers, Articles, Lectures and Speeches by Marcus P. Zillman, M.S., A.M.H.A.:

2018 Directory of Directories http://www.2018DirectoryOfDirectories.com/

Academic and Scholar Search Engines and Sources http://www.ScholarSearchEngines.com/

Bots, Blogs and News Aggregators 2019 <a href="http://www.BotsBlogs.com/">http://www.BotsBlogs.com/</a>

Business Intelligence Online Resources 2018 http://www.BIOnlineResources.info/

Cloud Computing Resources Primer 2018 <a href="http://www.zillman.us/white-papers/grid-distributed-and-cloud-computing-resources-primer/">http://www.zillman.us/white-papers/grid-distributed-and-cloud-computing-resources-primer/</a>



Current Awareness Discovery Tools on the Internet 2019 <a href="http://www.zillman.us/white-papers/current-awareness-discovery-tools-on-the-internet/">http://www.zillman.us/white-papers/current-awareness-discovery-tools-on-the-internet/</a>

Deep Web Research and Discovery Resources 2018 Online White Paper <a href="http://DeepWeb.us/">http://DeepWeb.us/</a>

eMarketing MiniGuide 2018 http://www.eMarketingMiniGuide.com/

eReference Library Link Toolkit 2018 <a href="http://www.eReferenceLibrary.com/">http://www.eReferenceLibrary.com/</a>

Financial Sources for the Family Office 2019 <a href="http://FinancialSourcesFamilyOffice.com/">http://FinancialSourcesFamilyOffice.com/</a>

Finding Experts By Using the Internet 2018 <a href="http://www.FindingExperts.info/">http://www.FindingExperts.info/</a>

Finding People Resources and Sites 2019 http://www.FindingPeople.info/

Healthcare Bots and Subject Directories 2018 http://www.HealthcareBots.info/

Knowledge Discovery Resources 2018 http://www.KDResources.info/

New Economy Resources 2018 http://www.NewEconomyResources.com/

Online Research Browsers 2018 http://www.zillman.us/white-papers/online-research-browsers/

Online Research Tools
<a href="http://www.OnlineResearchTools.info/">http://www.OnlineResearchTools.info/</a>

Online Social Networking 2018 <a href="http://www.OnlineSocialNetworking.info/">http://www.OnlineSocialNetworking.info/</a>

Searching the Internet 2018 – The Primer - 2019 Guide to Searching the Internet <a href="http://www.SearchingTheInternet.info/">http://www.SearchingTheInternet.info/</a>



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Deep Web Research and Discovery Resources 2018

[Updated: October 1, 2018] http://DeepWeb.us/ zillman@VirtualPrivateLibrary.com eVoice: 800-858-1462 Using the Internet As a Dynamic Resource Tool for Knowledge Discovery 2018 <a href="http://www.zillman.us/white-papers/using-the-internet-as-a-dynamic-resource-tool-for-knowledge-discovery/">http://www.zillman.us/white-papers/using-the-internet-as-a-dynamic-resource-tool-for-knowledge-discovery/</a>

Web Data Extractors 2018 http://www.WebDataExtractors.com/

Web Guide for the New Economy 2018 http://www.WebGuideNewEconomy.com/

White Papers By Marcus P. Zillman, M.S., A.M.H.A. <a href="http://www.WhitePapers.us/">http://www.WhitePapers.us/</a>

## Internet Tutor by Marcus P. Zillman, M.S., A.M.H.A.

http://www.InternetTutor.info/

Visit this site to learn about the availability of Marcus P. Zillman to tutor you or your associate one on one in the privacy of your residence or office on the latest happenings of the Internet including Internet basics to advanced Internet searching using bots and creating your own personal blog.

## Internet Speaking by Marcus P. Zillman, M.S., A.M.H.A.

http://www.InternetSpeaker.net

Visit this site to learn about Marcus P. Zillman's speaking engagements for your organization meetings and events. View and listen to his previous presentations as well as his weekly television shows.

## Internet Consulting by Marcus P. Zillman, M.S., A.M.H.A.

http://InternetConsultant.BlogSpot.com/

Visit this site to obtain information about obtaining the consultation services of Marcus P. Zillman for your company including eCommerce audits, utilization of bots, blogs and news aggregators or the creation of your own personal virtual private library powered by Subject Tracer<sup>TM</sup> Information bots!

#### **Current Awareness Monitors, Alerts and Information Traps**

http://www.ecurrentAwareness.com/

Marcus P. Zillman's latest report Current Awareness Monitors, Alerts and Information Traps is available for purchase online and for immediate download. This report is a comprehensive listing of the latest resources, sources and sites for current awareness on the Internet. This is a must read for anyone who must stay current in their profession and/or business activity as the list of URLs will keep you at the leading edge of your career.



#### **Market Intelligence Resources**

http://www.MarketIntelligenceResources.com/

Marcus P. Zillman's just released professional Internet MiniGuide is titled Market Intelligence Resources and is available for purchase online and immediate download. This 193 page digital miniguide represents a comprehensive listing of the latest resources, sources and sites to discover the latest Market Intelligence sources available on the Internet with many of them freely available! Designed specifically for today's entrepreneur, professional and/or investor.

## **Entrepreneurial Links 101**

http://www.EntrepreneurialLinks.com/

Marcus P. Zillman's newly released 231 page eReference digital book for the up and coming entrepreneur. Entrepreneurial Links 101 gives an alphabetical listing of the very best Internet and World Wide Web sites covering Entrepreneur Resources, Business Intelligence Resources and an extremely comprehensive list of Online Research Tools. This is considered by many to be the entrepreneur's bible for finding relevant and competent online resources!

#### **Internet Privacy and Security Resources**

http://www.InternetPrivacySecurity.net/

Marcus P. Zillman's latest eReference digital publication is a selected comprehensive alphabetical listing of the latest resources and sites covering all aspects of privacy and security currently available over the Internet. From the board room to the family room, these resources and sites give you the information you need to maintain your privacy and security as you use the Internet in your business and personal life.

#### **Research Resources Online Guide**

http://www.ResearchResourcesOnline.net/

Marcus P. Zillman's latest <u>LinkSeries Publication</u> is a 340 page digital guide of a selected comprehensive alphabetical listing of the latest and greatest resources and sites covering all areas of research that is currently available over the Internet. The guide covers online research resources and tools for the Newbie to research as well as the Seasoned researcher. Contents include: a) Research Resources, b) Research Tools, c) Student Research Resources Toolkit, d) Knowledge Discovery/Management and Data Mining Resources, e) Knowledge Discovery/Retrieval and the World Wide Web Resources, f) Business Intelligence Resources, g) Reference Resources, and h) Subject Tracer<sup>TM</sup> Information Blogs.



## The Survivor's Manual for The New Economy.

http://www.NewEconomyManual.com/

Marcus P. Zillman's latest LinkSeries Publication is a 239 page digital read that gives excellent resources and annotated sources for the new economy analytics, alerts, ecommerce, financial sources, invisible and deep web resources, social and business networking sources along with new economy competitive and business intelligence resources and an extremely comprehensive listing of new economy online tools.

