



Deep Web Research and Discovery Resources 2018

By

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Bots, Blogs and News Aggregators 2018 (<http://www.BotsBlogs.com/>) 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 <http://DeepWeb.us/>.

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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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

ARTICLES, PAPERS, FORUMS, AUDIOS AND VIDEOS (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 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

<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>

All of OCLC's WorldCat Heading Toward the Open Web by Barbara Quint

<http://newsbreaks.infotoday.com/nbreader.asp?ArticleID=16353>



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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 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

<http://www.techspot.com/guides/1292-web-security-anonymizer-primer/>

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

<http://library.laguardia.edu/invisibleweb/teachingtools>



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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>

Bot Research 2018

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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

<http://www.cs.binghamton.edu/~meng/pub.d/WWWposterPeng.pdf>

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>

Current Awareness Discovery Tools on the Internet 2018

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

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>

Darkweb for Newbies: Hacking and Marketplaces by Gaurav Sangwani

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



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<http://www.DarkWebNews.com/>

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-a-new-way-to-secure-the-web/>

Dark Web - CRS Report by Kristin Finklea

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

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

<https://www.airsassociation.org/services-new/airs-knowledge-network-n/airs-articles/item/19104-deep-web-links-massive-deep-websites-links-and-url>

Deep Web Search Engines to Explore the Hidden Internet by Rakesh Krishnan

<https://cdn.ampproject.org/c/s/amp.thehackernews.com/thn/2016/02/deep-web-search-engine.html>

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>

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

<http://arxiv.org/abs/1208.3876>

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Resource Discovery Technologies for the Heritage Sector, June 2004

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

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<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>

Grey Literature
http://en.wikipedia.org/wiki/Gray_literature

Grey Literature Network Service (GreyNet)
<http://www.greynet.org/>

Here Are the 10 Best Deep Web Search Engines by Kristen Hubby
<http://www.dailydot.com/layer8/best-deep-web-search-engines/>

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 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/>



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<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 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>

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

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/>

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IR and IE on the Web - PhD and MSc Dissertations
<https://groups.yahoo.com/neo/groups/webir/info>
<http://www.webir.org/>

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

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

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>



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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

<https://dl.acm.org/citation.cfm?id=775227>

Mining the Deep Web: Search Strategies That Work by Lee Ratzan

http://www.computerworld.com/s/article/9005757/Mining_the_Deep_Web_Search_strategies_that_work?pageNumber=1

Mining Topic-Specific Concepts and Definitions on the Web

<http://www.cs.uic.edu/~liub/publications/WWW-2003.pdf>

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

<http://securityaffairs.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

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

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



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Publications about Web Analysis, Web Search, Citation Indexing, Digital Libraries, Machine Learning, Neural Networks

<http://research.google.com/>

QProber: Classifying and Searching "Hidden-Web" Text Databases

<http://www.ipeirotis.com/?project=qprober-classifying-and-searching-hidden-web-text-databases>

Really Private Browsing: An Unofficial User's Guide to Tor by Andre Infante

<http://www.makeuseof.com/tag/really-private-browsing-an-unofficial-users-guide-to-tor/>

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

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

Scientific American: Featured Article: The Semantic Web In Action

<https://www.scientificamerican.com/article/semantic-web-in-action/>

Search Engine Meeting

<http://www.SearchEngineMeeting.net/>

Search Engine Technology and Digital Libraries

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

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 – A Primer

<http://www.SearchingTheInternet.info/>

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>



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

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Stop Talking About the Dark Web: Tor Project CoFounder Roger Dingledine

<https://technical.ly/philly/2017/05/15/dark-web-roger-dingledine/>

Structured Databases on the Web: Observations and Implications

<http://dl.acm.org/citation.cfm?id=1031584>

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

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<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>

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<https://hbr.org/2016/12/the-darknet-a-quick-introduction-for-business-leaders>

The Dark Web: What Every Parent Should Know by Cybermum Australia

<https://securingtomorrow.mcafee.com/consumer/family-safety/dark-web-what-every-parent-should-know/>

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

<http://securityintelligence.com/the-deep-web-whats-lurking-in-the-underbelly-of-the-internet/#.VUIUNmfD9D8>

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The Invisible Web by Chris Sherman

<http://web.freepint.com/go/newsletter/64#feature>

The Invisible Web: What it is, Why it exists, How to find it, and Its Inherent Ambiguity

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The Invisible Web: Where Search Engines Fear To Go

<http://www.powerhomebiz.com/vol25/invisible.htm>

The New Search Engines Shining a Light On the Deep Web by Carola Frediani

<http://kernelmag.dailydot.com/issue-sections/features-issue-sections/10376/how-to-search-deep-web-tor/>

The Ultimate Guide to the Invisible Web

<http://oedb.org/ilibrarian/invisible-web/>

The Virtual Private Library™ and The Deep Web Video by Melissa Barker

<http://zillman.blogspot.com/2009/07/virtual-private-library-and-deep-web.html>

Things You Can Do On the Dark Web That Aren't Illegal by Jacob Kleinman

<https://lifehacker.com/things-you-can-do-on-the-dark-web-that-arent-illegal-1819790298>

This Tool Lets You Scan the Dark Web for Your (stolen) Personal Data by Anna K. Sasaki

<https://www.airsassociation.org/services-new/airs-knowledge-network-n/airs-articles/item/17251-this-tool-lets-you-scan-the-dark-web-for-your-stolen-personal-data>

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<http://informatics.indiana.edu/fil/Web/>

Tor Coders Harden the Onion Against Surveillance

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TOR For Newbies - When Should You Use It?

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TorVPN by Max Eddy

<http://uk.pcmag.com/torvpn/19165/review/lockspin-torvpn>

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What Is the Dark Web and How Does It Work?

<https://theconversation.com/what-is-the-dark-web-and-how-does-it-work-63613>

What Is the Dark Web and How To Access This Scary Part of Internet by Karandeep Singh

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What is the Invisible Web? A Crawler Perspective by Natalia Arroyo, Laboratorio de Internet

<http://cybermetrics.wlv.ac.uk/AoIRASIST/arroyo.html>

What It Looks Like On the Dark Side of the Web by Felix Simon

<https://medium.com/@FelixSimon/what-it-looks-like-on-the-dark-side-of-the-web-f53ff9f4ef3c>

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CROSS DATABASE ARTICLES

Search Tools Reports: Searching for Text Information in Databases

<http://www.searchtools.com/info/database-search.html>

The Right Solution: Federated Search Tools by Roy Tennant

<http://lj.libraryjournal.com/2003/06/ljarchives/the-right-solution-federated-search-tools/>

UK Web Archiving Consortium

<http://www.webarchive.org.uk>

CROSS DATABASE SEARCH SERVICES

EnergyFiles - Subject Pathways [Oil Gas production and forecasting]

<http://energyfiles.com/>

FDsys - Search Across Multiple Government Databases

<http://www.gpo.gov/fdsys/>

King County Library System

<http://www.kcls.org/>

NLM Gateway Search

http://wwwcf.nlm.nih.gov/hsr_project/home_proj.cfm

SUMSearch 2 [Health Sciences]

<http://sumsearch.org/>

CROSS DATABASE SEARCH TOOLS

Bright Planet – Deep Web Intelligence

<http://brightplanet.com/>

Copernic

<http://www.copernic.com/>

Dieselpoint Java Search and Navigation Software

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<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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<http://DeepWeb.us/>

zillman@VirtualPrivateLibrary.com

eVoice: 800-858-1462

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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
<https://terbiumlabs.com/>

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

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
<http://uclassify.com/>



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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/>

Agent Construction Tools

<http://www.agentbuilder.com/>

AgentLink

<http://www.AgentLink.org/>



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<http://DeepWeb.us/>

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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/>

BotAnalytics - Analytics for Bots

<http://botanalytics.co/>

Bot and Intelligent Agent Research Resources 2018

<http://www.BotResearch.info/>

Bots, Blogs and News Aggregators 2018

<http://www.BotsBlogs.com>

ChatBottle Search

<https://chatbottle.co/>

ChatterBots Resources and Sites 2018

<http://www.ChatterBots.info/>



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Chatfuel - Build a Facebook Bot Without Coding

<https://chatfuel.com/>

Clara - Digital Employee That Schedules Meetings

<https://claralabs.com/>

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

<http://www.CommonCrawl.org/>

cQuery - Content Query Engine

<http://cquery.com/>

CrawlTrack - Your Web Statistics Tool

<http://www.crawltrack.net/>

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/>



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Digital Footprints - Collect Facebook Data

<http://digitalfootprints.dk/>

Eliza - The Original ChatterBot

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

Ethereum Frontier Release - A Decentralized Software Platform

<https://www.ethereum.org/>

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/>

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/>

Huginn - Your Agents Are Standing By

<https://github.com/cantino/huginn>

IBM Watson Services

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

idavatars - Intelligent Digital Avatars

<http://idavatars.com/>



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Imagination Engines

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

Import.io - Turn the Web Into Data With Extractors, Crawlers and Connectors

<https://import.io/>

Indexing Robot Crawler Checklist

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

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>

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>

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

<https://lurchr.com/>



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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>

Motion AI – ChatBots and Artificial Intelligence Made Easy

<http://motion.ai/>

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/>

Oxyus Open Source Search Engine

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



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ResearchKit Framework - Medical Research Apps

<https://github.com/ResearchKit>

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

<http://robobrain.me/>

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/>

Smarter Bots 2018

<http://www.SmarterBots.com/>

SocialBuzzBot 2018- 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/>



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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

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

<http://www.lemurproject.org/>

The Search Engine Project (TSEP)

<http://freecode.com/projects/tsep>

The Simon Lavern Page

<http://www.simonlaven.com/>

TSEP - The Search Engine Project

<http://www.tsep.info/>



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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/>



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Subject Tracer™ Information Blogs

Subject Tracer™ Information Blogs created and developed by the Virtual Private Library™ combine the best of the latest tools on the Internet. Using bots, blogs and news aggregators the Subject Tracer™ 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™ Information Blogs:

Virtual Private Library™

<http://www.VirtualPrivateLibrary.com/>

Accessibility Resources

<http://www.AccessibilityResources.info/>

Agriculture Resources

<http://www.AgricultureResources.info/>

AnswerSpot

<http://www.AnswerSpot.us/>

Artificial Intelligence Resources

<http://www.AIResources.info/>

Astronomy Resources

<http://www.AstronomyResources.info/>

Auction Resources

<http://www.AuctionResources.info/>

Biological Informatics

<http://www.BiologicalInformatics.info/>

Biotechnology Resources

<http://www.BiotechnologyResources.info/>

Bot Research

<http://www.BotResearch.info/>

Business Intelligence Resources

<http://www.BIResources.info/>



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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/>



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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

<http://www.MilitaryResources.info/>

New Economy Analytics, Resources and Alerts

<http://www.NewEconomyAnalytics.com/>

Outsourcing/Offshoring Information and Resources

<http://www.OutsourcingOffshore.us/>

Privacy Resources

<http://www.PrivacyResources.info/>

Reference Resources

<http://www.ReferenceResources.info/>

Research Resources

<http://www.ResearchResources.info/>

RestStress™

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

Script Resources

<http://www.ScriptResources.info/>

ShoppingBots

<http://www.ShoppingBots.info/>

Social Informatics

<http://www.SocialInformatics.info/>

Statistics Resources and Big Data

<http://www.StatisticsResources.info/>

Student Research

<http://www.StudentResearch.info/>

Theology Resources

<http://www.TheologyResources.info/>

Tutorial Resources

<http://www.TutorialResources.info/>



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World Wide Web Reference
<http://www.WWWReference.info/>

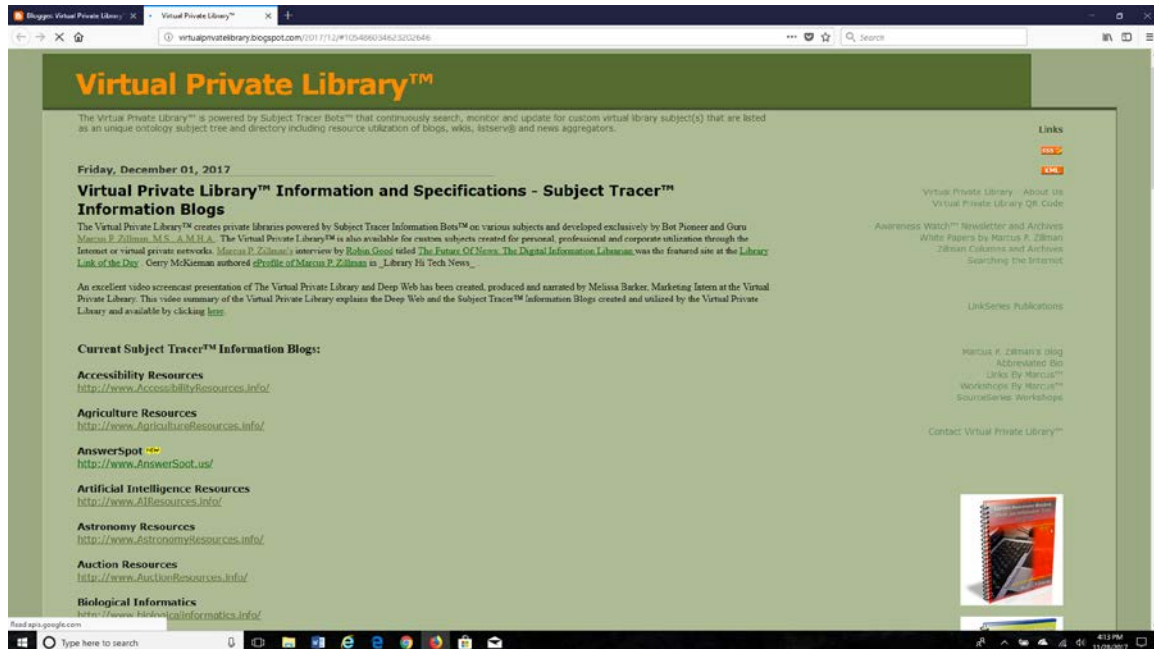


Figure 1: Virtual Private Library™

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™ 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
<http://www.zillman.info/>



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

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

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

Marcus P. Zillman's Columns
<http://www.ZillmanColumns.com>

LinkSeries Publications
<http://www.LinkSeries.com/>

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

Workshops By Marcus™
<http://www.WorkshopsByMarcus.com/>

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 2018
<http://www.BotsBlogs.com/>

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

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



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Current Awareness Discovery Tools on the Internet 2018
<http://www.zillman.us/white-papers/current-awareness-discovery-tools-on-the-internet/>

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

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

eReference Library Link Toolkit 2018
<http://www.eReferenceLibrary.com/>

Financial Sources for the Family Office 2018
<http://FinancialSourcesFamilyOffice.com/>

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

Finding People Resources and Sites 2018
<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
<http://www.OnlineResearchTools.info/>

Online Social Networking 2018
<http://www.OnlineSocialNetworking.info/>

Searching the Internet 2018 – A Primer
<http://www.SearchingTheInternet.info/>



Using the Internet As a Dynamic Resource Tool for Knowledge Discovery 2018
<http://www.zillman.us/white-papers/using-the-internet-as-a-dynamic-resource-tool-for-knowledge-discovery/>

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.
<http://www.WhitePapers.us/>

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™ 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.



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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 [LinkSeries Publication](#) 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™ 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.



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