

# Awareness Watch™ Newsletter

By Marcus P. Zillman, M.S., A.M.H.A.

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

V21N12

December 2023

Welcome to the V21N12 December 2023 issue of the **Awareness Watch™ Newsletter**. This newsletter is available as a complimentary subscription and will be issued monthly. Each newsletter will feature the following:

**Awareness Watch™ Featured Report**  
**Awareness Watch™ Spotters**  
**Awareness Watch™ Book/Paper/Article Review**  
**Subject Tracer™ Information Blogs**

I am always open to feedback from readers so please feel free to email with all suggestions, reviews and new resources that you feel would be appropriate for inclusion in an upcoming issue of Awareness Watch™. This is an ongoing work of creativity and you will be observing constant changes, constant updates knowing that “change” is the only thing that will remain constant especially in today’s post COVID-19 New Economy and New Normal 2024 world!!

## **Awareness Watch™ Featured Report**

This month’s featured report covers **2024 Generative AI and 2024 Open MetaVerse Resources** and is a comprehensive listing of competent Internet Generative AI and Open MetaVerse resources and tools including the new economy and new normal internet directories, subject guides and index resources and sites on the Internet available for the 2024 year. The below list is taken partially from my Generative AI Resources 2024 and Open MetaVerse Resources 2024 and is constantly updated with my Subject Tracer™ bots at the following URLs:

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

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

These resources and sources will help you to discover the many new pathways available through the Internet to find the latest new and existing world wide web and Internet competent Generative AI and Open MetaVerse research sources, tools and sites. As this site is constantly updated it would be to your benefit to bookmark and return to the above URLs frequently. The below resources and sources will be your pathfinder to all the new and existing competent Generative AI and Open MetaVerse research tools and resources.



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## **Generative AI and ChatGPT Resources:**

### **5 Free AI Sites That Use ChatGPT to Generate Custom Online Courses**

<https://www.bespacific.com/5-free-ai-sites-that-use-chatgpt-to-generate-custom-online-courses/>

### **10 Alternative Ways to Access GPT-4 for Free**

[https://www.linkedin.com/posts/hasantoxr\\_10-alternative-ways-to-access-gpt-4-for-free-activity-7077478693748563968-a8sK/](https://www.linkedin.com/posts/hasantoxr_10-alternative-ways-to-access-gpt-4-for-free-activity-7077478693748563968-a8sK/)

### **10 ChatGPT Projects Cheat Sheet**

<https://www.kdnuggets.com/10-chatgpt-projects-cheat-sheet>

### **10 Key Generative AI Terms You Should Know**

<https://www.linkedin.com/feed/update/urn:li:activity:7088186061415215104/>

### **A Critical Examination of the Ethics of AI-Mediated Peer Review**

<https://arxiv.org/abs/2309.12356>

### **A Jargon-Free Explanation of How AI Large Language Models (LLM) Work**

<https://arstechnica.com/science/2023/07/a-jargon-free-explanation-of-how-ai-large-language-models-work/>

### **AI101: Possibilities and Considerations of Generative Artificial Intelligence**

<https://www.downes.ca/cgi-bin/page.cgi?post=75709>

### **AI Content Detector – ChatGPT Plagiarism Checker**

<https://contentdetector.ai/>

### **AI Models – Search AI Models**

<https://www.aimodels.fyi/>

### **Analyzing Microsoft’s Generative AI Strategy: How Microsoft Is Expanding Past OpenAI to Transform the Way We Work**

<https://www.cbinsights.com/research/microsoft-generative-ai/>

### **Artificial General Intelligence Is Already Here**

<https://www.noemamag.com/artificial-general-intelligence-is-already-here/>

### **Auto-GPT**

<https://news.agpt.co/>



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## **Anti-GPT, BabyAGI and AgentGPT: How to Use AI Agents**

<https://mashable.com/article/autogpt-ai-agents-how-to-get-access>

## **Big AI List**

<https://www.BigAIIList.com/>

## **Can Generative AI Master Emotional Intelligence?**

<https://www.linkedin.com/pulse/can-generative-ai-master-emotional-intelligence-fast-company/>

## **ChatGPT and the Power of Internet: 8 Previously Impossible Tasks Made Easy**

<https://indianexpress.com/article/technology/artificial-intelligence/chatgpt-8-impossible-tasks-made-easy-8618019/>

## **ChatGPT Journal**

[https://www.linkedin.com/posts/the-turing-post\\_marketing-technology-ai-activity-7068832083216871424-Wcvd/](https://www.linkedin.com/posts/the-turing-post_marketing-technology-ai-activity-7068832083216871424-Wcvd/)

## **ChatGPT Prompts – Andrew Bolis Comprehensive Listings**

[https://www.linkedin.com/posts/andrewbolis\\_30-chatgpt-prompts-for-marketers-ugcPost-7084150172754083841-JkPX/](https://www.linkedin.com/posts/andrewbolis_30-chatgpt-prompts-for-marketers-ugcPost-7084150172754083841-JkPX/)

## **ChatGPT Ultimate Prompting Guide**

[https://www.linkedin.com/posts/stevenouri\\_delivering-a-prompt-is-much-like-giving-a-activity-7065229858666070016-IX6u/](https://www.linkedin.com/posts/stevenouri_delivering-a-prompt-is-much-like-giving-a-activity-7065229858666070016-IX6u/)

## **ChatGPT Vision Cheat Sheet: Turn Images Into Insights**

[https://www.linkedin.com/posts/hamna-aslam-kahn-81a777134\\_turn-images-into-insights-with-chatgpt-vision-activity-7120378039569420290-PpA\\_/](https://www.linkedin.com/posts/hamna-aslam-kahn-81a777134_turn-images-into-insights-with-chatgpt-vision-activity-7120378039569420290-PpA_/)

## **ChatGPT: Zero to Power User Cheat Sheet**

[https://www.linkedin.com/posts/marcellvollmer\\_chatgpt-innovation-chatbots-activity-7072480906912886785-d536/](https://www.linkedin.com/posts/marcellvollmer_chatgpt-innovation-chatbots-activity-7072480906912886785-d536/)

## **ChatNode – Train ChatGPT on Your Data**

<https://www.chatnode.ai/>

## **China Seeks Stricter Oversight of Generative AI with Proposed Data and Model Regulations**

<https://www.downes.ca/cgi-bin/page.cgi?post=75697>

## **Comprehensive ChatGPT Cheat Sheet by Steve Nouri**

[https://www.linkedin.com/posts/stevenouri\\_chatgpt-artificialintelligence-chatgpt-activity-7gnostic082258591780384768-RvJW/](https://www.linkedin.com/posts/stevenouri_chatgpt-artificialintelligence-chatgpt-activity-7gnostic082258591780384768-RvJW/)



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## **Cybersecurity in the Age of Generative AI**

<https://www.mckinsey.com/featured-insights/themes/Cybersecurity-in-the-age-of-generative-AI>

## **Department of Defense Establishes New Generative AI Task Force**

<https://www.mobilityengineeringtech.com/component/content/article/adt/insiders/defense/stories/48809>

## **Discover the Best AI Tools and Websites**

<https://nextgentool.io/>

## **Don't Wait – Create with Generative AI**

<https://www.mckinsey.com/mgi/our-research/dont-wait-create-with-generative-ai>

## **Don't Worry About AI Breaking Out of Its Box – Worry About Us Breaking In**

<https://arstechnica.com/gadgets/2023/02/dont-worry-about-ai-breaking-out-of-its-box-worry-about-us-breaking-in/>

## **Edubot – Self-Improving AI-Based Chatbot Library Tat Is Completely Platform-Agnostic**

<https://github.com/openedtech/edubot>

## **Epic Prompts to Take Your #ChatGPT Skills to the Next Level**

[https://www.linkedin.com/posts/stevenouri\\_chatgpt-artificialintelligence-chatgpt-activity-7082258591780384768-RvJW/](https://www.linkedin.com/posts/stevenouri_chatgpt-artificialintelligence-chatgpt-activity-7082258591780384768-RvJW/)

## **Elections: Get Ready for AI-Powered Politics**

<https://www.linkedin.com/pulse/2024-elections-get-ready-ai-powered-politics-fast-company/>

## **Enterprise Basics for Generative AI**

<https://experience.dataiku.com/generative-ai/p/1>

## **Evaluating Verifiability in Generative Search Engines**

<https://arxiv.org/abs/2304.09848>

## **Fact Sheet: President Biden Issues Executive Order on Safe, Secure, and Trustworthy Artificial Intelligence**

<https://www.whitehouse.gov/briefing-room/statements-releases/2023/10/30/fact-sheet-president-biden-issues-executive-order-on-safe-secure-and-trustworthy-artificial-intelligence/>

## **Forward Thinking on the Brave New World of Generative AI with Ethan Mollick**

<https://www.mckinsey.com/mgi/forward-thinking/forward-thinking-on-the-brave-new-world-of-generative-ai-with-ethan-mollick>



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**GenAI50: The Most Promising Generative Artificial Intelligence Startups of 2023**  
<https://www.cbinsights.com/research/generative-ai-top-startups-2023/>

**Gen AI and the Future of Work**  
<https://www.mckinsey.com/quarterly/the-five-fifty/five-fifty-gen-ai-and-the-future-of-work>

**Gen AI in High Gear: Mercedes Benz Leverages the Power of ChatGPT**  
<https://www.mckinsey.com/features/mckinsey-center-for-future-mobility/our-insights/drivers-of-disruption/gen-ai-in-high-gear-mercedes-benz-leverages-the-power-of-chatgpt>

**Generating Harms: Generative AI's Impact & Paths Forward**  
<https://govwhitepapers.com/whitepapers/generating-harms-generative-ais-impact-paths-forward>

**Generative Agents: Interactive Simulacra of Human Behavior**  
<https://arxiv.org/abs/2304.03442>

**Generative AI and the Future of Work in America**  
<https://www.mckinsey.com/mgi/our-research/generative-ai-and-the-future-of-work-in-america>

**Generative AI Application Landscape**  
[https://www.linkedin.com/posts/marcellvollmer\\_ai-machinelearning-cloud-activity-7056828479064961024-JPqp/](https://www.linkedin.com/posts/marcellvollmer_ai-machinelearning-cloud-activity-7056828479064961024-JPqp/)

**Generative AI Applications: An Investing Framework**  
<https://www.mosaicventures.com/patterns/generative-ai-applications-an-investing-framework>

**Generative AI and the Future of HR**  
<https://www.mckinsey.com/capabilities/people-and-organizational-performance/our-insights/generative-ai-and-the-future-of-hr>

**Generative AI at Work**  
<https://www.bespacific.com/generative-ai-at-work/>

**Generative AI Can Give You “Superpowers”, New McKinsey Research Finds**  
<https://www.mckinsey.com/about-us/new-at-mckinsey-blog/generative-ai-can-give-you-superpowers-new-mckinsey-research-finds>



**Generative AI Could Add \$4.4 Trillion a Year to the Global Economy, McKinsey Finds** <https://singularityhub.com/2023/06/22/generative-ai-could-add-4-4-trillion-a-year-to-the-global-economy-mckinsey-finds/>

**Generative AI Is Churning Out Unicorns Like It's 2021** <https://www.cbinsights.com/research/generative-ai-unicorns-valuations-revenues-headcount/>

**Generative AI LinkedIn** [https://www.linkedin.com/posts/genai-works\\_generativeai-salesandsupport-sales-activity-7097592862774591488-cHoO/](https://www.linkedin.com/posts/genai-works_generativeai-salesandsupport-sales-activity-7097592862774591488-cHoO/)

**Generative AI Must Reads** <https://www.mckinsey.com/capabilities/quantumblack/our-insights/generative-ai>

**Generative AI – No 1 AI Page on LinkedIn** <https://www.linkedin.com/company/genai-center/>

**Generative AI, Scholarly and Cultural Language Models, and the Return of Content** <https://www.lorcandempsey.net/generative-ai-a-note-about-content/>

**Generative AI Services Pulled from Apple APP Store in China Ahead of New Regulations** <https://techcrunch.com/2023/08/01/generative-ai-services-pulled-from-apple-app-store-in-china-ahead-of-new-regulations/>

**Generative AI Summit** <https://www.aidataanalytics.network/events-generativeaisummit/agenda-mc>

**Generative AI That's Based on the Murky Devious Dark Web Might Ironically Be the Best Thing Ever, Says AI Ethics and AI Law** <https://www.forbes.com/sites/lanceeliot/2023/05/21/generative-ai-thats-based-on-the-murky-devious-dark-web-might-ironically-be-the-best-thing-ever-says-ai-ethics-and-ai-law/>

**Generative Artificial Intelligence** <https://dl.acm.org/doi/pdf/10.1145/3626110>

**Generative Artificial Intelligence and Data Privacy: A Primer** <https://www.bespacific.com/generative-artificial-intelligence-and-data-privacy-a-primer/>

**Generative Artificial Intelligence: Overview, Issues and Questions for Congress** <https://govwhitepapers.com/whitepapers/generative-artificial-intelligence-overview-issues-and-questions-for-congress>



**GPT4All: An Ecosystem of Open Source On-Edge Large Language Models (LLM)**  
<https://github.com/nomic-ai/gpt4all>

**Guide on the Use of Generative AI**  
<https://www.bespacific.com/how-generative-ai-really-works/>

**Has OpenAI Lost Its Charm?**  
<https://www.spiceworks.com/tech/artificial-intelligence/articles/is-openai-losing-popularity/>

**How Generative AI Is Changing Security Research**  
<https://www.tenable.com/cyber-exposure/how-generative-ai-is-changing-security-research>

**How Generative AI Is Shaping the Future of Human Crowdsourcing**  
<https://www.bespacific.com/how-generative-ai-is-shaping-the-future-of-human-crowdsourcing/>

**How Generative AI Really Works**  
<https://www.bespacific.com/how-generative-ai-really-works/>

**How Generative AI Will Reshape the Enterprise**  
<https://www.databricks.com/resources/ebook/mit-cio-generative-ai-report>

**How the Dark Web is Embracing ChatGPT and Generative AI**  
<https://securityboulevard.com/2023/03/how-the-dark-web-is-embracing-chatgpt-and-generative-ai/>

**Is ChatGPT a Better Entrepreneur Than Most?**  
<https://knowledge.wharton.upenn.edu/article/is-chatgpt-a-better-entrepreneur-than-most/>

**It's Impossible to Detect LLM-created Text**  
<https://www.downes.ca/post/75398>

**Launching New Generative AI? Four Principles Critical to Success**  
<https://stage.appen.com/blog/launching-generative-ai-application-four-principles-critical-to-success/>

**Learn About ChatGPT on the Dark Web**  
<https://www.mediarunsearch.co.uk/learn-about-chatgpt-on-the-dark-web/>



### **LLM Economics – A Guide to Generative AI Implementation Cost**

<https://www.linkedin.com/posts/joaquim-cardoso-do-ros%C3%A1rio-01090014-llm-economics-guide-to-generative-ai-implementation-ugcPost-7111084811066208256-5Krm/>

### **Machine Learning Community (Moderated)**

<https://www.linkedin.com/feed/update/urn:li:activity:7093683414205161472/>

### **Mastering Generative AI and Prompt Engineering: A Practical Guide for Data Scientists**

<https://www.linkedin.com/feed/update/urn:li:activity:7055931524012982272/>

### **Mozilla AI Guide**

<https://blog.mozilla.org/en/mozilla/introducing-mozillas-ai-guide-the-developers-onboarding-ramp-to-ai/>

### **New ChatGPT Rival, Claude 2, Launches for Open Beta Testing**

<https://arstechnica.com/information-technology/2023/07/new-chatgpt-rival-claude-2-launches-for-open-beta-testing/>

### **Not a Replacement of Journalists in Any Way: AP Clarifies Standards Around Generative AI**

<https://www.niemanlab.org/2023/08/not-a-replacement-of-journalists-in-any-way-ap-clarifies-standards-around-generative-ai/>

### **OpenAI Confirms That Writing Detectors Don't Work**

<https://arstechnica.com/information-technology/2023/09/openai-admits-that-ai-writing-detectors-dont-work/>

### **OpenAI's GPT-4 Scores in the Top 1% of Creative Thinking**

<https://singularityhub.com/2023/09/10/openais-gpt-4-scores-in-the-top-1-of-creative-thinking/>

### **OpenAI Launches ChatGPT Chatbot App for iOS**

<https://www.linkedin.com/feed/update/urn:li:activity:7065315123619401728/>

### **Opera's Generative AI-Infused Browser Is Ready for the Masses**

<https://www.engadget.com/operas-generative-ai-infused-browser-is-ready-for-the-masses-070013098.html>

### **PedAIgogy – New Era of Knowledge and Learning Where AI Changes Everything**

<https://www.downes.ca/post/74946>



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**Principles for the Development, Deployment, and Use of Generative AI Technologies** <https://www.acm.org/binaries/content/assets/public-policy/ustpc-approved-generative-ai-principles>

**Revealed: The Authors Whose Pirated Books Are Powering Generative AI** <https://www.theatlantic.com/technology/archive/2023/08/books3-ai-meta-llama-pirated-books/675063/>

**Speculative Futures on ChatGPT and Generative Artificial Intelligence (AI): A Collective Reflection from the Educational Landscape** <http://www.asianjde.com/ojs/index.php/AsianJDE/article/download/709/394/>

**Steve Nouri – Generative AI Founder** [https://www.linkedin.com/posts/stevenouri\\_generativeai-artificialintelligence-chatgpt-activity-7089922000336416768-FMS1/](https://www.linkedin.com/posts/stevenouri_generativeai-artificialintelligence-chatgpt-activity-7089922000336416768-FMS1/)

**TechBrief on Generative AI** <https://dl.acm.org/doi/pdf/10.1145/3626110>

**Tech Experts Are Starting to Doubt That ChatGPT and AI “hallucinations” Will Ever Go Away: “This Isn’t Fixable”** <https://fortune.com/2023/08/01/can-ai-chatgpt-hallucinations-be-fixed-experts-doubt-altman-openai/>

**Technology’s Generational Moment with Generative AI: A CIO and CTO Guide** <https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights/technologys-generational-moment-with-generative-ai-a-cio-and-cto-guide>

**The 9 Best Alternatives to ChatGPT** <https://www.bespacific.com/the-9-best-alternatives-to-chatgpt/>

**The AI Detections Arms Race Is One** <https://www.wired.com/story/ai-detection-chat-gpt-college-students/>

**The Critical Value of Human-Created Knowledge to the Future of Generative AI** <https://blog.irvingwb.com/blog/2023/09/the-critical-value-of-human-created-knowledge-to-generative-ai.html>

**The Data Dividend: Fueling Generative AI** <https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights/the-data-dividend-fueling-generative-ai>



### **The Economic Potential of Generative AI**

<https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights/the-economic-potential-of-generative-ai-the-next-productivity-frontier>

### **The Generative AI Market Map: 335 Vendors Automating Content, Code, Design and More**

<https://www.cbinsights.com/research/generative-ai-startups-market-map/>

### **The Generative Elections: How AI Could Influence the 2024 US Presidential Race (and beyond)**

<https://www.emergingtechbrew.com/stories/2023/09/13/generative-ai-elections>

### **The Mounting Human and Environmental Costs of Generative AI**

<https://arstechnica.com/gadgets/2023/04/generative-ai-is-cool-but-lets-not-forget-its-human-and-environmental-costs/>

### **The Organization of the Futurer: Enabled by Gen AI, Driven by People**

<https://www.mckinsey.com/capabilities/people-and-organizational-performance/our-insights/the-organization-of-the-future-enabled-by-gen-ai-driven-by-people>

### **The Promising Alliance of Generative and Discriminative AI**

<https://www.downes.ca/cgi-bin/page.cgi?post=75621>

### **The State of AI in 2023: Generative AI's Breakout Year**

<https://www.mckinsey.com/capabilities/quantumblack/our-insights/the-state-of-ai-in-2023-generative-ais-breakout-year>

### **The State of Generative AI in 7 Charts**

<https://www.cbinsights.com/research/generative-ai-funding-top-startups-investors/>

### **Top 10 Tools for Detecting ChatGPT, GPT-4, Bard and Claude**

<https://www.kdnuggets.com/2023/05/top-10-tools-detecting-chatgpt-gpt4-bard-llms.html>

### **Top Resources for Generative AI**

<https://www.cbinsights.com/research-top-resources-generative-ai>

### **Toward AGI – What Is Missing?**

<https://mark-riedl.medium.com/toward-agi-what-is-missing-c2f0d878471a>

### **Use ChatGPY Like a Pro – Unlock ChatGPT's Full Potential**

[https://www.linkedin.com/posts/hasantoxr\\_experience-opportunities-investment-activity-7064185063671762944-6ITj/](https://www.linkedin.com/posts/hasantoxr_experience-opportunities-investment-activity-7064185063671762944-6ITj/)



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### **Using ChatGPT for CI/MI**

<https://www.institute-for-competitive-intelligence.com/news-archive/news/institute-for-competitive-intelligence/using-chatgpt-for-ci-mi>

### **What Every CEO Should Know About Generative AI**

<https://www.mckinsey.com/capabilities/mckinsey-digital/our-insights/what-every-ceo-should-know-about-generative-ai>

### **What's the Future of Generative AI? An Early View in 15 Charts**

<https://www.mckinsey.com/featured-insights/mckinsey-explainers/whats-the-future-of-generative-ai-an-early-view-in-15-charts>

### **Why AI Detectors Think the US Constitution Was Written by AI**

<https://arstechnica.com/information-technology/2023/07/why-ai-detectors-think-the-us-constitution-was-written-by-ai/>

## **Open MetaVerse Resources 2024:**

### **6 Industries Where the Metaverse Is Bringing New Opportunities**

<https://technative.io/6-industries-where-the-metaverse-is-bringing-new-opportunities>

### **7 Essential Ingredients of a Metaverse**

<https://future.a16z.com/7-essential-ingredients-of-a-metaverse>

### **9 Security Threats in the Metaverse**

<https://www.securitymagazine.com/articles/98142-9-security-threats-in-the-metaverse>

### **2023 MiniGuides Series by Marcus P. Zillman, M.S., A.M.H.A.**

<http://www.2023MiniGuides.com/>

### **A CEO's Guide to the Metaverse**

<https://www.mckinsey.com/capabilities/growth-marketing-and-sales/our-insights/a-ceos-guide-to-the-metaverse>

### **An Overview of Web3 Venture Capital Activity in 2021**

<https://www.forbes.com/sites/rahulrai/2022/01/02/an-overview-of-web3-venture-capital-activity-in-2021/>

### **A Whole New World: Education Meets the Metaverse**

[https://www.brookings.edu/wp-content/uploads/2022/02/A-whole-new-world\\_Education-meets-the-metaverse-FINAL-021422.pdf](https://www.brookings.edu/wp-content/uploads/2022/02/A-whole-new-world_Education-meets-the-metaverse-FINAL-021422.pdf)



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### **Building a Creator Economy**

<https://www.mckinsey.com/capabilities/growth-marketing-and-sales/our-insights/building-a-creator-economy>

### **Building an Inclusive Web3 Together**

<https://web3canada.ca/gm/>

### **Building a Safer Metaverse**

<https://www.mckinsey.com/capabilities/growth-marketing-and-sales/our-insights/building-a-safer-metaverse>

### **Chris Dixon Thinks Web3 Is the Future of the Internet – Is It?**

<https://www.theverge.com/23020727/decoder-chris-dixon-web3-crypto-a16z-vc-silicon-valley-investing-podcast-interview>

### **Contiguous Identities: The Virtual Self in the Supposed Metaverse**

<https://firstmonday.org/ojs/index.php/fm/article/view/12471/10612>

### **Crypto Canon**

<https://a16z.com/2018/02/10/crypto-readings-resources/>

### **Crypto Theses for 2022**

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### **What Is Web3? Deep Insight Into the Decentralized Technology**

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### **Your Guide to the Metaverse**

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## **Awarenesswatch™ Spotters**

### **LLRX> 2023 Healthcare MiniGuide**

<https://www.bespacific.com/2023-healthcare-miniguide/>

Health care organizations, the federal government, academics, and various entities within the medical sector maintain a plethora of sites specific to health care issues. This guide by **Marcus P. Zillman** focuses on Healthcare Search Engines and Selected Bots and includes 7 Health Forums Online for Expert Support. Zillman's guide incorporates both Eastern and Western medical practices.

### **Academic and Scholar Search Engines and Sources 2024 – November 2023 Edition**

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

[Click to access Scholar.pdf](#)

Internet Annotated Link Dataset Compilation titled “Academic and Scholar Search Engines and Sources 2024” is now an 90-page research paper listing selected resources



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both new and existing that will help anyone who is attempting to find academic and scholarly information and knowledge available on the Internet. Each source is described along with the URL address than can be accessed. It is freely available as a PDF file (889KB) at the above link from the [Virtual Private Library™](#) and authored by [Marcus P. Zillman, M.S., A.M.H.A.](#) [Completely recreated with all links validated and new URLs added: **November 1, 2023**]. Other white papers are available by clicking [here](#).

### Updated> 2023 Tutorial MiniGuide

<http://whitepapers.virtualprivatelibrary.net/2023Tutorialminiguide.pdf>  
<http://www.2023TutorialMiniGuide.com/>

The **2023 Tutorial MiniGuide** has just been updated and is now a 27-page freely available link compilation for a selected group of competent tutorial resources that are available over the Internet. These resources are designed to be your Tutorial Library and to give you the latest and greatest tutorial resources available on the Internet. This has been created by Internet guru and expert [Marcus P. Zillman](#) who is the Executive Director of the [Virtual Private Library](#) and **designed specifically for use on iPads, iPhone, Androids, Smart Phones, and Netbooks/Chromebooks/Laptops**. Your complete new tutorial library on the go and great for remote education and business needs! Updates to this are powered by [Subject Tracer™](#) Information Bots (STIB). This has been added to the tools section of [Research Resources](#) Subject Tracer™ Information Blog. Visit all my [Subject Tracers](#). [Released on **November 2, 2023**; 27 pages; 540KB PDF]

### Deep Web Research and Discovery Resources 2024 – November 2023 Edition

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

I have just updated my white paper link dataset compilation and now titled **Deep Web Research and Discovery Resources 2024** and it is now a 104-page PDF document (1,344 KB) freely available directly from the above URL. This update verified all links as well as reviewed all resources covered including adding additional links. Currently, this has been downloaded over 12,000,000+ times! [Updated on **November 2, 2023**]

### Open Educational Resources (OER) Sources 2024 – November 2023 Edition

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

“Open Educational Resources (OER) Sources 2024 are freely accessible, openly licensed text, media, and other digital assets that are useful for teaching, learning, and assessing as well as for research purposes” [Wikipedia]. Costs continue to rise for students who are pursuing college and post-graduate degree programs. By leveraging best practice sites, services, and non-traditional options to expand knowledge, skills, and abilities in many disciplines, students can choose from a wide range of options to complete their respective goals. This freely available guide, Open Educational Resources (OER) Sources 2024, is a comprehensive listing of useful open educational resources, sources, and sites on the Internet that can assist you in optimizing your learning opportunities. This will be added to [OERSearchEngine.com](#). This will be added to [Education and Academic Resources](#) Subject Tracer™. This will be added to [Student Research Resources](#) Subject Tracer™.



Completely updated including all links validated on **November 3, 2023**. [74 pages; 1124KB PDF]

### Updated> **2023 Artificial Intelligence (AI) MiniGuide**

<http://whitepapers.virtualprivatelibrary.net/2023artificialintelligenceminiguide.pdf>  
<http://www.2023AIMiniGuide.com/>

The 2023 Artificial Intelligence (AI) MiniGuide has just been updated and is now a 37-page freely available link compilation for a selected group of competent artificial intelligence resources that are available over the Internet. These resources are designed to be your AI Library and to give you the latest and greatest AI resources available on the Internet. This has been created by Internet guru and expert [Marcus P. Zillman](#) who is the Executive Director of the [Virtual Private Library](#) and **designed specifically for use on iPads, iPhone, Androids, Smart Phones, and Netbooks/Chromebooks/Laptops**. Your complete Artificial Intelligence library on the go and great for remote education and business needs! Updates to this are powered by [Subject Tracer™](#) Information Bots (STIB). This has been added to the tools section of [Research Resources](#) Subject Tracer™ Information Blog. Visit all my [Subject Tracers](#). [Released: **November 4, 2023**; 37 pages; 634KB PDF]

### New Normal Startup Resources 2024 – November 2023 Edition

<http://www.NewNormalStartUpResources.com/>  
[http://whitepapers.VirtualPrivateLibrary.net/New\\_Normal\\_Startup\\_Resources.pdf](http://whitepapers.VirtualPrivateLibrary.net/New_Normal_Startup_Resources.pdf)

The white paper link dataset compilation of the **New Normal Startup Resources 2024** Subject Tracer™ Information Resource by [Marcus P. Zillman, M.S., A.M.H.A.](#) has just been updated on **November 4, 2023** and is now a freely available 55-page PDF document (939KB) listing the latest and greatest online resources and sites for new normal startup resources! Other white papers are available by clicking [here](#). This is a MUST publication for every business in today's post COVID-19 world and more!

### Updated> **Generative AI Resources 2024**

[http://whitepapers.virtualprivatelibrary.net/GenerativeAI\\_Resources.pdf](http://whitepapers.virtualprivatelibrary.net/GenerativeAI_Resources.pdf)  
<http://www.GenertativeAIResources.com/>

**Generative AI Resources** is a term that will keep popping up with more frequency during the AI boom. Generative AI can drastically improve business operations across any vertical or industry!. **A must read to survive the future!** Updated constantly ... Created: **August 5, 2023** and Updated **November 6, 2023**; 21 pages; 462KB PDF.

### Updated> **2023 Theology MiniGuide**

<http://whitepapers.virtualprivatelibrary.net/2023Theologyminiguide.pdf>  
<http://www.2023TheologyMiniGuide.com/>

The 2023 Theology MiniGuide has just been updated and is now a 18-page freely available link compilation for a selected group of competent auction resources that are available over the Internet. These resources are designed to be your Theology Library and to give you the latest and greatest theology resources available on the Internet. This has



been created by Internet guru and expert [Marcus P. Zillman](#) who is the Executive Director of the [Virtual Private Library](#) and **designed specifically for use on iPads, iPhone, Androids, Smart Phones, and Netbooks/Chromebooks/Laptops**. Your complete auction library on the go and great for remote education needs! Updates to this are powered by [Subject Tracer™](#) Information Bots (STIB). This has been added to the tools section of [Research Resources](#) Subject Tracer™ Information Blog. Visit all my [Subject Tracers](#). Visit all my [2023 MiniGuides Series](#). [Released on **November 7, 2023**; 18 pages; 387KB PDF]

### **Knowledge Discovery Resources 2024**

<https://www.zillman.us/white-papers/knowledge-discovery-resources-2024/>

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

Internet Annotated Link Dataset Compilation white paper titled “Knowledge Discovery Resources 2024 is now a 30-page research paper listing selected resources both new and existing that will help anyone who is attempting to find the latest information about knowledge discovery available on the Internet. Each source is described along with the URL address that can be accessed. Also included is a comprehensive listing of Knowledge Discovery Resources. It is freely available as a PDF file (495KB) at the above link from the Virtual Private Library™ and authored by [Marcus P. Zillman, M.S., A.M.H.A.](#). Other white papers are available by clicking [here](#). Updated: **November 7, 2023**.

### **Mastodon Resources 2024**

[http://whitepapers.virtualprivatelibrary.net/Mastodon\\_Resources.pdf](http://whitepapers.virtualprivatelibrary.net/Mastodon_Resources.pdf)

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

**Mastodon** is a term that will keep popping up with more frequency during the AI boom. Mastodon can help your Internet communications across any vertical or industry!. A must read to survive the future! Updated constantly ... Updated: **November 8, 2023**; 14 pages; 361KB PDF.

### **Updated> 2023 Journalism MiniGuide**

<http://whitepapers.virtualprivatelibrary.net/2023JournalismminiGuide.pdf>

<http://www.2023JournalismMiniGuide.com/>

The **2023 Journalism MiniGuide** has just been updated and is now a 28-page freely available link compilation for a selected group of competent journalism resources that are available over the Internet. These resources are designed to be your Journalism Library and to give you the latest and greatest journalism resources available on the Internet. This has been created by Internet guru and expert [Marcus P. Zillman](#) who is the Executive Director of the [Virtual Private Library](#) and **designed specifically for use on iPads, iPhone, Androids, Smart Phones, and Netbooks/Chromebooks/Laptops**. Your complete new journalism library on the go and great for remote education and business needs! Updates to this are powered by [Subject Tracer™](#) Information Bots (STIB). This has been added to the tools section of [Research Resources](#) Subject Tracer™ Information



Blog. Visit all my [Subject Tracers](#). [Released on **October 10, 2022** and Updated on **November 9, 2023**; 28 pages; 546KB PDF]

### Updated> **Open MetaVerse Resources 2024**

[http://whitepapers.virtualprivatelibrary.net/OpenMetaVerse\\_Resources.pdf](http://whitepapers.virtualprivatelibrary.net/OpenMetaVerse_Resources.pdf)

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

**Open MetaVerse** is a term that will keep popping up with more frequency during the AI boom. Open MetaVerse can drastically change business operations across any vertical or industry!. A must read to survive the future! Updated constantly ... Updated: **November 10, 2023**; 21 pages; 469KB PDF.

### **2024 Guide to Searching the Internet**

[http://WhitePapers.VirtualPrivateLibrary.net/2024\\_Guide\\_To\\_Searching\\_the\\_Internet.pdf](http://WhitePapers.VirtualPrivateLibrary.net/2024_Guide_To_Searching_the_Internet.pdf)

<http://www.2024SearchingTheInternet.com/>

Searching the Internet is now as commonplace as driving a car and most people consider the use of just one search engine to obtain the results that they are looking for. This guide is designed to open your eyes to the many excellent resources on the Internet to search for information and/or to discover new knowledge in 2024! This paper will explain to you a number of ways to search for information on the Internet and methods to continue your searches and knowledge discovery without depending on Bing or Google! This paper is also designed for the “newbie” to the Internet or for the person who only uses one source to search for information on the Internet. Of course, there are many hidden jewels for the seasoned searcher!! **2023 Guide to Searching the Internet**: Updated on **November 10 2023**; 22 pages; 874KB PDF.

### Updated> **2023 Student Research MiniGuide**

<http://whitepapers.virtualprivatelibrary.net/2023StudentResearchminiguide.pdf>

<http://www.2023StudentResearchMiniGuide.com/>

The 2023 Student Research MiniGuide has just been updated and is now a 41-page freely available link compilation for a selected group of competent student research resources that are available over the Internet. These resources are designed to be your Student Research Library and to give you the latest and greatest student research resources available on the Internet. This has been created by Internet guru and expert [Marcus P. Zillman](#) who is the Executive Director of the [Virtual Private Library](#) and **designed specifically for use on iPads, iPhone, Androids, Smart Phones, and Netbooks/Chromebooks/Laptops**. Your complete student research library on the go and great for remote education and business needs! Updates to this are powered by [Subject Tracer™](#) Information Bots (STIB). This has been added to the tools section of [Research Resources](#) Subject Tracer™ Information Blog. Visit all my [Subject Tracers](#). [Released on **November 8, 2022** and Updated on **November 11, 2023**; 41 pages; 698KB PDF]





## 2023 MiniGuides & 2024 Publications by Marcus P. Zillman, M.S., A.M.H.A.

<http://www.2023MiniGuides.com/>

<http://whitepapers.virtualprivatelibrary.net/2023miniguides.pdf>

I am extremely pleased to announce the November 2023 update of my **2023 MiniGuides & 2024 Publications** including 46 2023 miniguides on a large range of exciting subjects and also additional many new 2024 publications. These are all freely available as PDF files and very easy to download. This has been created by Internet guru and expert [Marcus P. Zillman](#) who is the Executive Director of the [Virtual Private Library](#) and **designed specifically for use on iPads, iPhone, Androids, Smart Phones, Netbooks/Chromebooks/Laptops and Desk Tops**. Your complete library on the go and great for zoom learning and remote education, social and business needs all over the world! Updates to this are powered by [Subject Tracer™](#) Information Bots (STIB).

## Web Data Extractors 2024

<http://WhitePapers.VirtualPrivateLibrary.net/WebDataExtractors.pdf>

Research white paper link compilation titled “Web Data Extractors 2024” is an updated 25-page research paper listing many resources both new and existing that will help anyone who is attempting to find information and knowledge research about web data extraction on the Internet. It is freely available as a PDF file (741KB) at the above link from the Virtual Private Library™ and authored by [Marcus P. Zillman, M.S., A.M.H.A.](#) Recreated and Updated on **November 13, 2023**. Other white papers are available by clicking [here](#). **Bookmark:** <http://www.WebDataExtractors.com/>

## Updated> 2023 Biological Informatics MiniGuide

<http://whitepapers.virtualprivatelibrary.net/2023BiologicalInformaticsminiguide.pdf>

<http://www.2023BiologicalInformaticsMiniGuide.com/>

The 2023 Biological Informatics MiniGuide has just been created and is now a 37-page freely available link compilation for a selected group of competent internet search resources that are available over the Internet. These resources are designed to be your Internet Search Library and to give you the latest and greatest internet search resources available on the Internet. This has been created by Internet guru and expert [Marcus P. Zillman](#) who is the Executive Director of the [Virtual Private Library](#) and **designed specifically for use on iPads, iPhone, Androids, Smart Phones, and Netbooks/Chromebooks/Laptops**. Your complete internet search library on the go and great for remote education and business needs! Updates to this are powered by [Subject Tracer™](#) Information Bots (STIB). This has been added to the tools section of [Research Resources](#) Subject Tracer™ Information Blog. Visit all my [Subject Tracers](#). [Updated on **November 14, 2023**; 37 pages; 672KB PDF]

## 2024 New Economy Resources

[\[Download New Economy Resources 2024 White Paper Link Dataset Compilation\]](#)

2024 New Economy Resources ([NewEconomyResources.com](#)) is a Subject Tracer™ Information Blog developed and created by the [Virtual Private Library™](#). It is designed to monitor new economy analytics, resources and alerts on the World Wide Web and



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

[zillman@VirtualPrivateLibrary.com](mailto:zillman@VirtualPrivateLibrary.com)

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listed below. We always welcome suggestions of additional sites and resources to be added to this comprehensive listing and please submit by clicking [here](#). This site has been developed and maintained by Marcus P. Zillman, M.S., A.M.H.A.; Internet [expert](#), [author](#), [keynote speaker](#), and [consultant](#). His latest white papers include [Guide to Searching the Internet 2024](#), [Academic and Scholar Search Engines and Sources 2024](#), and [Knowledge Discovery Resources 2024](#). All of his Subject Tracer™ Information Blogs and his white papers are available from [WhitePapers.us](#). His latest monthly column is available by clicking [here](#). Subscribe to his free monthly **Awareness Watch™** Newsletter. Learn more by clicking [here](#). Released on **November 15, 2023**; 44 pages; 748KB PDF. **Bookmarks:** <http://www.2024NewEconomy.com> and <http://www.NewEconomyResources.com/> © 2018, 2019, 2020, 2021, 2022, 2023, 2024 Marcus P. Zillman, M.S., A.M.H.A.

### Updated> 2023 Social MiniGuide

<http://whitepapers.virtualprivatelibrary.net/2023Socialminiguide.pdf>

<http://www.2023SocialMiniGuide.com/>

The 2023 Social MiniGuide has just been updated and is now a 29-page freely available link compilation for a selected group of competent social resources that are available over the Internet. These resources are designed to be your Social Library and to give you the latest and greatest social resources available on the Internet. This has been created by Internet guru and expert [Marcus P. Zillman](#) who is the Executive Director of the [Virtual Private Library](#) and **designed specifically for use on iPads, iPhone, Androids, Smart Phones, and Netbooks/Chromebooks/Laptops**. Your complete social library on the go and great for remote education and business needs! Updates to this are powered by [Subject Tracer™](#) Information Bots (STIB). This has been added to the tools section of [Research Resources](#) Subject Tracer™ Information Blog. Visit all my [Subject Tracers](#). [Released on **December 12, 2022**; Updated on **November 16, 2023**; 29 pages; 567KB PDF]

### Web Guide for the New Economy 2024

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

The **Web Guide for the New Economy 2024** by [Marcus P. Zillman, M.S., A.M.H.A.](#) has just been recreated and represents the latest world wide web resources for discovering new knowledge and understanding the latest happenings with regards to the New Economy. Understanding the required new economy analytics, resources, and alerts will give you the necessary tools to maintain your current position, improve your position and discover the new knowledge required to be the leader in your profession in the New Economy! Download this freely available web guide today! [Updated with all links validated and new links added and released on **November 17, 2023**; 43 pages; 825KB PDF] Additional white papers by Marcus P. Zillman are available by clicking [here](#).



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## Updated> 2023 Bot Miniguide

<http://whitepapers.virtualprivatelibrary.net/2023botminiguide.pdf>

<http://www.2023BotMiniGuide.com/>

The 2023 Bot Miniguide has just been updated and is now a 41-page freely available link compilation for a selected group of competent bot and intelligent agent resources that are available over the Internet. These resources are designed to be your Bot Library and to give you the latest and greatest bot resources available on the Internet. This has been created by Internet guru and expert [Marcus P. Zillman](#) who is the Executive Director of the [Virtual Private Library](#) and designed specifically for use on **iPads, iPhone, Androids, Smart Phones, and Netbooks/Chromebooks/Laptops**. Your complete bot library on the go and great for remote education and business needs! Updates to this are powered by [Subject Tracer™](#) Information Bots (STIB). This has been added to the tools section of [Research Resources](#) Subject Tracer™ Information Blog. Visit all my [Subject Tracers](#). [Released on **December 23, 2022**; Updated on **November 18, 2023**; 41 pages; 665KB PDF]

## December 2023 Zillman Column: 2024 Link Guide to Online Shopping Resources

[http://columns.virtualprivatelibrary.net/2024\\_Link\\_Guide\\_Online\\_Shopping\\_Resources\\_Dec23\\_Column.pdf](http://columns.virtualprivatelibrary.net/2024_Link_Guide_Online_Shopping_Resources_Dec23_Column.pdf)

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

The December 2023 Zillman Column featuring **2024 Link Guide to Online Shopping Resources** by Marcus P. Zillman, M.S., A.M.H.A.; Executive Director of the Virtual Private Library. This is a comprehensive listing of niched internet shopping resources, sites, and tools on the Internet and available in the new “zoom” education/learning/business/social age. These competent Internet shopping resources as well as open metaverse, ChatGPT and Generative AI resources and tools will be your search engine for your Internet shopping research. The below list of sources is partially taken from my 2024 ShoppingBots and Online Shopping and is constantly updated with Subject Tracer™ bots at the following URL: <http://www.ShoppingBots.info/>. These tools, resources, and sources will help you to discover the many pathways available to you through the Internet to find the latest Internet shopping and open metaverse, chatgpt and generative ai research resources, sources, and sites for shopping. This is another MUST have column to discover the latest 2024 competent niched online shopping research resources and tools to give you the information you need in today’s ever-changing and fast-paced [2024 New Economy](#) business and academic research world and the [New Normal 2024](#).



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## Fact Check Resources Miniguide 2024 – December 2023 Edition

[http://WhitePapers.VirtualPrivateLibrary.net/Fact\\_Check\\_MiniGuide\\_2024.pdf](http://WhitePapers.VirtualPrivateLibrary.net/Fact_Check_MiniGuide_2024.pdf)

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

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

The above is a just created publication **Fact Check Resources Miniguide 2024** by [Marcus P. Zillman, M.S., A.M.H.A.](#). It is a freely available 22-page PDF document (503KB) listing the latest and competent online resources and sites for fact-checking resources! Other white papers are available by clicking [here](#). In today's fake news, disinformation, and misinformation environment, this is a must-needed resource to keep you on the correct path for all your information needs. Also visit my **2022/2023 54 Subject Tracers™** by clicking [here](#). Also visit my just created **2023 MiniGuides** by clicking [here](#). Created: **November 20, 2023**.

## Updated> Current Awareness Tools 2024

[http://whitepapers.virtualprivatelibrary.net/current\\_awareness\\_tools\\_2024.pdf](http://whitepapers.virtualprivatelibrary.net/current_awareness_tools_2024.pdf)

Research white paper titled “**Current Awareness Tools 2024**” is a 19-page research paper listing many resources both new and existing that will help anyone who is attempting to find information and knowledge research about current awareness tools available on the Internet. It is freely available as a PDF file (278KB) at the above link from the Virtual Private Library™ and authored by [Marcus P. Zillman, M.S., A.M.H.A.](#) It was recreated on **November 21, 2023**. Other white papers are available by clicking [here](#). Direct URL Bookmark: <http://www.CurrentAwarenessTools.com/>

## Updated> 2023 Shopping MiniGuide

<http://whitepapers.virtualprivatelibrary.net/2023Shoppingminiguide.pdf>

<http://www.2023ShoppingMiniGuide.com/>

The 2023 Shopping MiniGuide has just been created and is now a 28-page freely available link compilation for a selected group of competent shopping resources that are available over the Internet. These resources are designed to be your Shopping and Deal Library and to give you the latest and greatest shopping and deal resources available on the Internet. This has been created by Internet guru and expert [Marcus P. Zillman](#) who is the Executive Director of the [Virtual Private Library](#) and **designed specifically for use on iPads, iPhone, Androids, Smart Phones, and Netbooks/Chromebooks/Laptops**. Your complete shopping and deal library on the go and great for remote education and business needs! Updates to this are powered by [Subject Tracer™](#) Information Bots (STIB). This has been added to the tools section of [Research Resources](#) Subject Tracer™ Information Blog. Visit all my [Subject Tracers](#). [Released on **November 23, 2022**; Updated on **November 21, 2023**; 28 pages; 775KB PDF]



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### > 2023 Script Code MiniGuide

<http://whitepapers.virtualprivatelibrary.net/2023ScriptCodeminiguide.pdf>

<http://www.2023ScriptCodeMiniGuide.com/>

The 2023 Script Code MiniGuide has just been updated and is now a 29-page freely available link compilation for a selected group of competent script and code resources that are available over the Internet. These resources are designed to be your Script and Code Library and to give you the latest and greatest script and code resources available on the Internet. This has been created by Internet guru and expert [Marcus P. Zillman](#) who is the Executive Director of the [Virtual Private Library](#) and **designed specifically for use on iPads, iPhone, Androids, Smart Phones, and Netbooks/Chromebooks/Laptops**. Your complete script and code library on the go and great for remote education and business needs! Updates to this are powered by [Subject Tracer™](#) Information Bots (STIB). This has been added to the tools section of [Research Resources](#) Subject Tracer™ Information Blog. Visit all my [Subject Tracers](#). [Released on **November 22, 2022** and Updated on **November 25, 2023**; 29 pages; 562KB PDF]

### Updated> 2023 Directory MiniGuide

<http://whitepapers.virtualprivatelibrary.net/2023Directoryminiguide.pdf>

<http://www.2023DirectoryMiniGuide.com/>

The 2023 Directory MiniGuide has just been updated and is now a 31-page freely available link compilation for a selected group of competent directory resources that are available over the Internet. These resources are designed to be your Directory Library and to give you the latest and greatest directory resources available on the Internet. This has been created by Internet guru and expert [Marcus P. Zillman](#) who is the Executive Director of the [Virtual Private Library](#) and **designed specifically for use on iPads, iPhone, Androids, Smart Phones, and Netbooks/Chromebooks/Laptops**. Your complete directory library on the go and great for remote education and business needs! Updates to this are powered by [Subject Tracer™](#) Information Bots (STIB). This has been added to the tools section of [Research Resources](#) Subject Tracer™ Information Blog. Visit all my [Subject Tracers](#). [Updated on **November 28, 2023**; 31 pages; 564KB PDF]

### Updated> 2023 ChatterBots MiniGuide

<http://whitepapers.virtualprivatelibrary.net/2023ChatterBotsminiguide.pdf>

<http://www.2023ChatterBotsMiniGuide.com/>

The 2023 ChatterBots MiniGuide has just been created and is now a 27-page freely available link compilation for a selected group of competent chatterbots resources that are available over the Internet. These resources are designed to be your ChatterBots Library and to give you the latest and greatest chatterbots resources available on the Internet. This has been created by Internet guru and expert [Marcus P. Zillman](#) who is the Executive Director of the [Virtual Private Library](#) and **designed specifically for use on iPads, iPhone, Androids, Smart Phones, and Netbooks/Chromebooks/Laptops**. Your complete chatterbots library on the go and great for remote education and business needs! Updates to this are powered by [Subject Tracer™](#) Information Bots (STIB). This has been



added to the tools section of [Research Resources](#) Subject Tracer™ Information Blog. Visit all my [Subject Tracers](#). [Updated on **November 30, 2023**; 27 pages; 588KB PDF]

## **Awarenesswatch™ Paper Review**

**Should ChatGPT Be Biased? Challenges and Risks in Large Language Models** by *Emilio Ferrara*

<https://firstmonday.org/ojs/index.php/fm/article/view/13346/11365>

### **Abstract:**

As generative language models, exemplified by ChatGPT, continue to advance in their capabilities, the spotlight on biases inherent in these models intensifies. This paper delves into the distinctive challenges and risks associated with biases specifically in large-scale language models. We explore the origins of biases, stemming from factors such as training data, model specifications, algorithmic constraints, product design, and policy decisions. Our examination extends to the ethical implications arising from the unintended consequences of biased model outputs. In addition, we analyze the intricacies of mitigating biases, acknowledging the inevitable persistence of some biases, and consider the consequences of deploying these models across diverse applications, including virtual assistants, content generation, and chatbots. Finally, we provide an overview of current approaches for identifying, quantifying, and mitigating biases in language models, underscoring the need for a collaborative, multidisciplinary effort to craft AI systems that embody equity, transparency, and responsibility. This article aims to catalyze a thoughtful discourse within the AI community, prompting researchers and developers to consider the unique role of biases in the domain of generative language models and the ongoing quest for ethical AI.

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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:

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Accessibility Resources

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



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

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

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/>

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

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

Intelligence Resources  
<http://www.BIOOnlineResources.com/>

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 Resources

<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/>

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/>



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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/>

Military Resources

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

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

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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/>

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Tutorial Resources

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

World Wide Web Reference

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

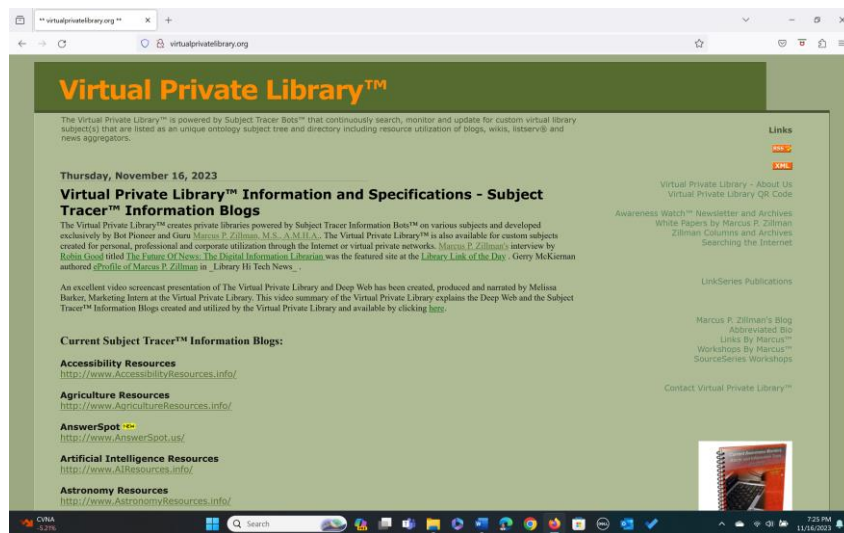


Figure 2: Virtual Private Library™

**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



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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 (26,000+ Postings)**

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

**Marcus P. Zillman Abbreviated Bio**

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

**Awareness Watch™ Newsletter**

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

**Marcus P. Zillman's Columns**

<http://www.ZillmanColumns.com>

**LinkSeries Publications**

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**Links By Marcus™**

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**2024 Guide to Searching the Internet**

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**2024 New Economy Resources**

<http://www.2024NewEconomy.com/>

**2023 Directory of Directories**

<http://www.2023DirectoryOfDirectories.com/>

**2023 MiniGuides Series by Marcus P. Zillman, M.S., A.M.H.A.**

<http://www.2023MiniGuides.com/>

**2022/2023 Guide to Finding Experts by Using the Internet**

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

**2022/2023 Guide to Finding People Resources and Sites**

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

**2022/2023 Guide to Internet Privacy Resources and Tools**

<http://www.2022InternetPrivacy.com/>

**Academic and Scholar Search Engines and Sources 2024**

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

**Bots, Blogs and News Aggregators 2024**

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

**Business Intelligence Online Resources 2022/2023**

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

**Cloud Computing Resources Primer 2024**

<http://www.zillman.us/white-papers/grid-distributed-and-cloud-computing-resources-primer/>

**Current Awareness Tools 2024**

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

**Deep Web Research and Discovery Resources 2024 Online White Paper**

<http://DeepWeb.us/>

**eMarketing MiniGuide 2024**

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

**eReference Library Link Toolkit 2022/2023**

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



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**Finding Experts By Using the Internet 2022/2023**

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

**Finding People Resources and Sites 2022/2023**

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

**Generative AI Resources 2024**

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

**Healthcare Bots and Subject Directories 2022/2023**

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

**Knowledge Discovery Resources 2024**

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

**Mastodon Resources 2024**

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

**New Economy Resources 2024**

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

**New Normal Startup Resources 2024**

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

**Online Research Browsers and Data Visualization Tools 2023**

<http://www.zillman.us/white-papers/online-research-browsers/>

**Online Research Tools 2023**

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

**Online Social Networking 2022/2023**

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

**Open Educational Resources (OER) Sources 2024**

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

**Open MetaVerse Resources 2024**

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



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### **Source Intelligence Miniguide 2024**

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

### **Searching the Internet 2024**

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

### **Social Informatics 2022/2023**

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

### **Subject Tracers 2022/2023**

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

### **Using the Internet As a Dynamic Resource Tool for Knowledge Discovery 2023**

<http://www.zillman.us/white-papers/using-the-internet-as-a-dynamic-resource-tool-for-knowledge-discovery/>

### **Web Data Extractors 2024**

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

### **Web Guide for the New Economy 2024**

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

### **White Papers 2022/2023 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>

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<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/>

<http://www.CurrentAwarenessTools.com>

Marcus P. Zillman's latest reports Current Awareness Monitors, Alerts and Information Traps and Current Awareness Tools 2020 are now available. One for purchase and one freely available online and immediate download. These reports are comprehensive listings 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 [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, and f) 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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