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CHRONICLE OF DIGITAL TRANSFORMATION THROUGH INTERNET OF THINGS TECHNOLOGIES

Some biweekly perspectives from
around the globe gathered by
CDAIT

(2000 entries since April 1, 2022)
https://cdait.gatech.edu/sites/default/files/2024-02/Digital_Transformation_Through_IoT_Technologies_February_29_2024.pdf

GOVERNANCE & THE INTERNET OF THINGS

John Curran, "FCC Tees Up Vote on U.S. Cyber Trust Mark IoT Device Labeling [scheduled for March 14, 2024]," Meritalk, February 22, 2024 <https://www.meritalk.com/articles/fcc-tees-up-vote-on-u-s-cyber-trust-mark-iot-device-labeling/>

Anna Ribeiro, "US agencies release joint fact sheet to strengthen cybersecurity in water and wastewater systems," Industrial Cyber, February 22, 2024 <https://industrialcyber.co/utilities-energy-power-water-waste/us-agencies-release-joint-fact-sheet-to-strengthen-cybersecurity-in-water-and-wastewater-systems/>

Cath Everett, "Digital exclusion and disability - how does society tackle the divide? (1/2)," Diginomica, February 21, 2024 <https://diginomica.com/digital-exclusion-and-disability-how-does-society-tackle-divide-12>

Anna Ribeiro, "US Senate introduces legislation to enhance healthcare cybersecurity within the HHS [Department of Health and Human Services] amidst recent breaches," Industrial Cyber, February 16, 2024 <https://industrialcyber.co/medical/us-senate-introduces-legislation-to-enhance-healthcare-cybersecurity-within-the-hhs-amidst-recent-breaches/>

Edgar Capdevielle, "When it comes to the new SEC [Security and Exchange Commission] 'materiality' rules, assume that OT and IoT breaches qualify," SC Magazine, February 14, 2024 <https://www.scmagazine.com/perspective/focus-in-on-ot-and-iot-as-the-new-sec-materiality-rules-kick-in>

Ian Swan, "IoT SEP [Standard Essential Patent] Negotiations: New Players in a Complicated Game," JD Supra, February 14, 2024 <https://www.jdsupra.com/legalnews/iot-sep-negotiations-new-players-in-a-7723140/>

GT CDAIT Biweekly IoT News Digest (2/24 – 2)

IoT News and Market Reports

(Second Half of February 2024)

- Selected IoT-related announcements and featured activities/topics gathered by CDAIT from governments; agencies; consortia; alliances; associations; standards, research and other similar groups around the world – 14 entries: https://cdait.gatech.edu/sites/default/files/2024-02/IoT_News_Filings_February_2024_Second_Half.pdf
- Sample list of IoT-related market reports gathered by CDAIT – 65 entries: https://cdait.gatech.edu/sites/default/files/2024-02/IoT_Market_Reports_February_2024_Second_Half.pdf

Georgia Tech IoT-related Info/Research Noticed by CDAIT

- Introduction to the **Georgia Tech Manufacturing 4.0 Consortium** https://ampf.research.gatech.edu/how-engage?mc_cid=30112614fa&mc_eid=d62afc4cbo
- Song, Mulang, Shu Wang, Yiyun Fei, and Rojer Jiao, "Digital Twin Enhanced Smart Assembly System Design and Analysis for Resilient Operations," In 2nd Australian International Conference on Industrial Engineering and Operations Management. 2023, <https://doi.org/10.46254/AU02.20230274.pdf>; <https://ieomsociety.org/proceedings/2023australia/274.pdf>
- Goel, Ashok, Chris Dede, Myk Garn, and Chaohua Ou, "AI-ALOE: AI for reskilling, upskilling, and workforce development," AI Magazine (published February 19, 2024) <https://onlinelibrary.wiley.com/doi/full/10.1002/aaai.12157>

OF NOTE: Andrew Brown, "What's Ahead for IoT at Mobile World Congress 2024 [MWC, Barcelona, Spain, February 26-29, 2024]," IoT World Today, February 22, 2024 <https://www.iotworldtoday.com/connectivity/what-s-ahead-for-iot-at-mobile-world-congress-2024>; Nana Appiah, "Mobile World Congress 2024: Here Is What To Expect," Biztech Africa, February 26, 2024 <https://www.biztechafrika.com/article/mobile-world-congress-what-to-expect/62536/>; Phil Todd, "Five IoT ecosystem questions to explore at MWC 2024," LinkedIn, February 23, 2024 https://www.linkedin.com/pulse/five-iot-ecosystem-questions-explore-mwc-2024-tecfutures-bfne?trk=article-ssr-frontend-pulse_more-

Special Reading Suggestions

- Sudeep Srivastava, "Enterprise IoT – Benefits, Use Cases, and Real Examples," Appinventiv, February 28, 2024 <https://appinventiv.com/blog/iot-in-enterprise/>
- Carsten Rhod Gregersen, "Three ways in which the video revolution impacts IoT," Embedded, February 26, 2024 <https://www.embedded.com/three-ways-in-which-the-video-revolution-impacts-iot/>
- FutureIoT Editors, "Rising risks from accelerated use of unchecked IoT in enterprise," FutureIoT, February 26, 2024 <https://futureiot.tech/rising-risks-from-accelerated-use-of-unchecked-iot-in-enterprise/>
- Rizwan Shah, "Revolutionizing Connectivity: How iSIM Technology is Shaping the Future of IoT," BNN, February 26, 2024 <https://bnnbreaking.com/tech/revolutionizing-connectivity-how-isim-technology-is-shaping-the-future-of-iot>
- Romil Bahl, "IoT for Good" Paves the Way to a Greener Tomorrow," IoT Business News, February 22, 2024 <https://iotbusinessnews.com/2024/02/22/86540-iot-for-good-paves-the-way-to-a-greener-tomorrow/>
- Outlook Web Desk, "A Look At How IoT Is Transforming Healthcare," Outlook, February 2, 2024 <https://www.outlookindia.com/healths/fitness/a-look-at-how-iot-is-transforming-healthcare>
- Cindi Petito, "The Evolution of Smart Home Technology for People With Disabilities," HomeCare, February 16, 2024 <https://www.homecaremag.com/hme-products/januaryfebruary-2024/evolution-smart-home-technology-people-disabilities>
- Daily Host News posting, "What Does 2024 Hold for IoT: Discover the Five Trends that will Shape the Growth of IoT in the Years Ahead," Daily Host News, February 16, 2024 <https://www.dailyhostnews.com/what-does-2024-hold-for-iot-discover-the-five-trends-that-will-shape-the-growth-of-iot-in-the-years-ahead>
- Kenta Yasukawa, "Bringing the Power of GenAI to IoT," IoT Business News, February 15, 2024 <https://iotbusinessnews.com/2024/02/15/09400-bringing-the-power-of-genai-to-iot/>

Selected IoT Perspectives The Internet of Things and IPv6

"The advantages of IPv6 over IPv4 are commonly related to the addressing capacity, the need for efficient IP addressing in IoT, and specific technical aspects such as header compression, fragmentation, and adaptation layers for different IoT technologies. Plus it is also worth considering the built-in IPSec in IPv6, whereas in IPv4 this security feature is not enabled (by default).", Diego Asturias, "IPv6: The Future of IoT Connectivity," RapidSeedbox, February 12, 2024 <https://www.rapidseedbox.com/blog/ipv6-the-future-of-iot>

- Malanie Hopson, "Why Is Ipv6 Preferred Over Ipv4 For IoT Implementation," Robots.net, October 17, 2023 modified January 19, 2024 <https://robots.net/tech/why-is-ipv6-preferred-over-ipv4-for-iot-implementation/>
- Emily Bowen, "IPv4 vs. IPv6 in IoT: A critical comparison," Telnyx, January 16, 2024 <https://telnyx.com/resources/ipv4-vs-ipv6>
- Dewang Goyal, "The Advantages of IPv6 in IoT," Ipv4.deals, December 13, 2023 <https://www.ipv4.deals/blog/advantages-of-ipv6-in-iot/>
- Ryan Brothwell, "The intersection of IPv6, blockchain and IoT," BSV Blockchain, April 21, 2023 <https://www.bsvblockchain.org/news/the-intersection-of-ipv6-blockchain-and-iot>

Research background info and official websites (sample): Galego, N.M.C., Pascoal, R.M., Brandão, P.R. (2024). "IPv6 in IoT," In: Montenegro, C., Rocha, Á., Cueva Lovelle, J.M. (eds) Management, Tourism and Smart Technologies. ICMT 2023. Lecture Notes in Networks and Systems, vol 773. Springer, Cham. https://doi.org/10.1007/978-3-031-44131-8_9; The U.S. Department of Defense (DoD) High Performance Computing Modernization Program (HPCMP), "United States (US) IPv6 and IoT Policy, Guidance, and Best Practices," DOD HPC Modernization Program website <https://www.hpc.mil/solution-areas/networking/ipv6-knowledge-base/ipv6-knowledge-base-general-information/ipv6-and-iot-policy-guidance-and-best-practices>; U.S. Department of Commerce, "Internet Protocol Version 6 (IPv6) Policy," U.S. DOC website <https://www.commerce.gov/about/policies/ipv6-policy>; Federal Energy Regulatory Commission (FERC), "Internet Protocol Version 6 (IPv6) Policy," FERC website <https://www.ferc.gov/internet-protocol-version-6-ipv6-policy>; U.S. Department of Health and Human Services (HHS), "HHS Policy For The Transition To Internet Protocol Version 6 (Ipv6)," HHS website <https://www.hhs.gov/web/governance/digital-strategy/it-policy-archive/hhs-policy-transition-internet-protocol-version-6-ipv6.html>;

<https://cdait.gatech.edu>



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