

GT CDAIT

Biweekly IoT News Digest (11/22-1)

CHRONICLE OF DIGITAL TRANSFORMATION THROUGH **INTERNET OF THINGS TECHNOLOGIES**

Some biweekly perspectives from around the globe gathered by CDAIT

GOVERNANCE & THE INTERNET OF THINGS

Robert Lemos, "Cybersecurity 'Nutrition' Labels Still a Work in Progress - Pretty much every aspect of the effort to create easy to-understand labels for Internet-of-Things

Ryan Daws, "UK, Canada, and Singapore join forces to secure IoT devices," IoT

Mariam Baksh, "**NIST Official W<u>arns</u>** Against Device-only Approach to Securing IoT," Nextgov, November 10, 20-22 approach-securing-iot/379595/

Dave Nyczepir, "NIST proposes project to improve cybersecurity at water utilities,'

press release, "Digital economy becomes China's major growth engine: white paper," Xinhua, November 7, 2022 https://english.news.cn/20221107/55a6e538

Alan Bickerstaff and Cassandra Cuellar, **"Web** 3.0: Disruption and Regulatory Ambiguity," Lexology, November 3, 2022

Certification Programs Are Becoming More Prevalent. What Does It Mean For Canadian Organizations?" Mondaq,

programs-are-becoming-more-prevalent-what-does-it-mean-for-canadian-organizations

(First Half of November 2022) 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 - 15 entries - See: https://cdait.gatech.edu/sites/default/files/2022-11/IoT_News_Filings_November_2022__First_Half.pdf

Sample list of IoT-related market reports gathered by CDAIT- 89 entries - See: https://cdait.gatech.edu/sites/default/files/2022-

11/IoT_Market_Reports_November_2022_First_Half.pdf

Georgia Tech IoT-related Info/Research Noticed by CDAIT

Intro/ News and Market Reports Roy, Varun, and Vignesh Sreedhar. "The EU's Capacity to Lead the Transatlantic Alliance in AI Regulation," In Claremont-UC Undergraduate Research Conference on the European Union, vol. 2022, no. 1, p. 11. 2022 https://scholarship.claremont.edu/urceu/vol2022/iss1/11/

- Daniel S. Schiff, "Setting the Agenda for AI: Issues, and Influence in United States Artificial Intelligence Policy," Ph.D. Disserttion, GT School of Public Policy https://smartech.gatech.edu/handle/1853/67191
- Carlos Nkuba, Seulbae Kim, Sven Dietrich, and Heejo Lee, "Riding the IoT Wave with VFuzz: Discovering Security Flaws in Smart Home," in IEEE Access, vol. 10, pp. 1775-1789, 2022, doi: 10.1109/ACCESS.2021.3138768. https://ieeexplore.ieee.org/document/9663293
- Lu, Zhuoran and Dou, Yifan and Wu, D. J. and Chen, Jian, "Selling Smart and Connected Products: A Value Chain Perspective," (August 31, 2022). Available at SSRN: https://ssrn.com/abstract=4205529 or http://dx.doi.org/10.2139/ssrn.4205529

OF NOTE (highlighted in MIT Technology Review's The Download of 11/7/22): Michael Bluhm, "Biden's hugely consequential high-tech export ban on China, explained by an expert -- The ban on semiconductor exports to China is one of the most important policy moves of the year — and could set off a geopolitical quake," https://www.vox.com/world/2022/11/5/23440525/biden-administration-semiconductor-export-ban china?mc_cid=b017dbbd68&mc_eid=cf0b0e87e1; Zeyi Yang, "Tech Review Explains -- Inside the software that will become the next battle front in US-China chip war," MIT Technology Review, August 18, 2022 https://www.technologyreview.com/2022/08/18/1058116/eda-software-us-chip-war/

Special Reading Suggestions

- Mohit Agrawal, "IoT Key to Meeting Sustainable Development Goals 2030," Counterpoint, November 10, 2022 https://www.counterpointresearch.com/iot-key-to-meeting-sustainable-development-goals-2030/
- Pohan Lin, "The Big Data-IoT Relationship: How They Help Each Other," Spiceworks, November 10, 2022 https://www.spiceworks.com/tech/big-data/guest-article/the-big-data-iot-relationship-how-they-help-each-other/

Naveen Joshi, "IoT is the stepping stone for digital twin technology," BBN Times, November 3, 2022 https://www.bbntimes.com/technology/iot-is-the-stepping-stone-for-digital-twin-technology

Selected IoT Perspectives The Internet of Medical Things (IoMT)

"The investments in the healthcare industry have significantly increased during the pandemic. The increasing investments in IoT to transform the healthcare sector are anticipated to bolster the global internet of medical things (IoMT) market growth." Fortune Business Insights press release, "With 29.5% CAGR, Internet of Medical Things (IoMT) Market Size worth USD 187.60 Billion in 2028," Globe Newswire, October 10, 2022 https://www.globenewswire.com/news-release/2022/10/10/2530904/0/en/With-29-5-CAGR-Internet-of-Medical-Things-IoMT-Market-Size-worth-USD-187-60-Billion-in-2028.html

- Lachlan Colquhoun, "IoT Security Is Giving Healthcare Heart Attacks," CDO Trends, November 1, 2022 https://www.cdotrends.com/story/17594/iot-security-giving-healthcare-heart-attacks
- Astute Analytica press release, "Internet of Medical Things Market 2022 Expectation surges with Rising Demand by Industry Analysis through 2027," OpenPR, October 31, 2022 https://www.openpr.com/news/2783741/internet-of-medical-things-market-2022-expectation-surges-with
- Satavisa Pati, "Top 10 IoMT trends and use cases in healthcare for 2023," Analytics Insight, October 10, 2022 https://www.analyticsinsight.net/top-10-iomt-trends-and-use-cases-in-healthcare-for-2023/
- Constancio Fernandes, "Combating Security Risks is Especially Tough with Medical IoT Devices Here's Why," Healthcare IT Today, September 21, 2022 https://www.healthcareittoday.com/2022/09/21/combating-security-risks-is-especially-tough-with-medical-iot-devices-heres-why,
- Splunk Data Insider posting, "What is the Internet of Medical Things (IoMT)?" Splunk website, September 12, 2022 https://www.splunk.com/en_us/data-insider/what-is-the-internet-of-medical-things-iomt.html

Research background info (sample): Hemmati, Atefeh, and Amir Masoud Rahmani. "Internet of Medical Things in the COVID-19 Era: A Systematic Literature Review," Sustainability 14, no. 19 (published online October 4, 2022): 12637 https://www.mdpi.com/2071-1050/14/19/12637 ; Hireche, Rachida, Houssem Mansouri, and Al-Sakib Khan Pathan. "Security and Privacy Management in Internet of Medical Things (IoMT): A Synthesis." Journal of Cybersecurity and Privacy 2, no. 3 (published August 17,2022): 640-661 https://www.mdpi.com/2624-800X/2/3/33; Gupta, Karan, Deepak Kumar Sharma, Koyel Datta Gupta, and Anil Kumar. "A tree classifier based network intrusion detection model for Internet of Medical Things," Computers and Electrical Engineering 102 (available online June 17, 2022): 108158 https://www.sciencedirect.com/science/article/abs/pii/S0045790622004049 .; Ashfaq, Zarlish, Abdur Rafay, Rafia Mumtaz, Syed Mohammad Hassan Zaidi, Hadia Saleem, Syed Ali Raza Zaidi, Sadaf Mumtaz, and Ayesha Haque. "A review of enabling technologies for internet of medical things (IOMT) ecosystem." Ain Shams Engineering Journal 13, no. 4 (2022): 101660 https://www.sciencedirect.com/science/article/pii/S209044792100438X; Kamruzzaman, M. M., Ibrahim Alrashdi, and Ali Alqazzaz. "New opportunities, challenges, and applications of edge-AI for connected healthcare in internet of medical things for smart cities," Journal of Healthcare Engineering 2022 (published online February 23,2022) https://www.hindawi.com/journals/jhe/2022/2950699/; Kagita, Mohan Krishna, Navod Thilakarathne, Thippa Reddy Gadekallu, and Praveen Kumar Reddy Maddikunta. **"A review on security and** privacy of internet of medical things," Intelligent Internet of Things for Healthcare and Industry (first online, February 12, 2022): 171-187. https://www.hindawi.com/journals/jhe/2022/2950699/ https://link.springer.com/chapter/10.1007/978-3-030-81473-1_8

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