GT CDAIT
Biweekly IoT News Digest (8/24 – 2)

Digest is compiled by Alain Louchez, CDAIT Co-founder & Director Emeritus

CHRONICLE OF DIGITAL TRANSFORMATION THROUGH INTERNET OF THINGS TECHNOLOGIES
Some biweekly perspectives from around the globe gathered by CDAIT - 50 added for this <u>Digest</u> (2800 entries since April 1, 2022) https://cdait.gatech.edu/sites/default/files/2024-08/Digital_Transformation_Through_IoT_Technologies_August_31_2024.pdf

GOVERNANCE & THE INTERNET OF THINGS

Kevin Bushweller, **"Sizing Up the Risks of Schools' Reliance on the 'Internet of Things',"** EducationWeek, August 29, 2024 https://www.edweek.org/leadership/sizing-up-the-risks-of-schools-reliance-on-the-internet-of-things/2024/08

Ryan Daws, **"FAA to drone pilots: 'Unsafe behaviour will cost you',"** IoTTech News, August 28, 2024 https://iottechnews.com/news/faa-drone-pilots-unsafe-behaviour-will-cost-you/

Steven Aquino, **"AI could be a game changer for people with disabilities,"** MIT Technology Review, August 23, 2024 https://www.technologyreview.com/2024/08/23/1096607/ai-people-with-disabilities-accessibility/

Rhiannon Williams and James O'Donnell, **"We finally have a definition for open-source AI,"** MIT Technology Review, August 22, 2024 https://www.technologyreview.com/2024/08/22/1097224/we-finally-have-a-definition-for-open-source-ai/

Christine Horton, **"Prioritising social housing with connected technology: for safer and more inclusive communities,"** Think.Digital Partners, August 20, 2024 https://www.thinkdigitalpartners.com/news/2024/08/20/prioritising-social-housing-with-connected-technology-for-safer-and-more-inclusive-communities/

Chris Donkin, **"IoT, AI credited with growing role in mining compliance,"** Mobile World Live, August 20, 2024 https://www.mobileworldlive.com/industry/iot-ai-credited-with-growing-role-in-mining-compliance/

IoT News and Market Reports
(Second Half of August 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 – 16 entries:
https://cdait.gatech.edu/sites/default/files/2024-08/IoT_News_Filings_August_2024_Second_Half.pdf

- Sample list of IoT-related market reports gathered by CDAIT – 50 entries: https://cdait.gatech.edu/sites/default/files/2024-08/IoT_Market_Reports_August_2024_Second_Half.pdf

Georgia Tech IoT-related Info/Research Noticed by CDAIT

- Sang, Fan. **"Hardening and Adapting Trusted Execution Environments for Emerging Platforms,"** PhD dissertation, School of Cybersecurity and Privacy, College of Computing, Georgia Institute of Technology, August 2024 https://gts3.org/assets/papers/2024/sang:thesis.pdf

- Jiao, Roger, Xuejian Gong, Mulang Song, Shu Wang, and Petri Helo.,**"An X-as-a-Service (XaaS) Reference Model for Smart Manufacturing Systems,"** In Trends and Applications in Mechanical Engineering, Composite Materials and Smart Manufacturing, pp. 47-67. IGI Global, 2024 https://www.igi-global.com/chapter/an-x-as-a-service-xaas-reference-model-for-smart-manufacturing-systems/353998

- Jin, Bingzhe, Baofeng Zhang, Zhong Lin Wang, and Jie Wang. **"Dynamic interfacial electrostatic energy harvesting via a single wire,"** (June 12, 2024) http://www.wanggenerator.com/paper/2024/sciadv.ado5362.pdf

- Huang, Yong, Lihui Wang, and S. Liang. **"Overview of Manufacturing,"** Handbook of Manufacturing 14, no. 64.137 (2024) https://www.worldscientific.com/doi/pdf/10.1142/9789813271029_0001?srsltid=AfmBOoqNTg2CXE9Ngw64v_Q1nwitw8mzUTXLgzwKHYlHXN___oIok4JwN

OF NOTE: The California State Assembly passed on August 28, 2024 proposed bill SB 1047, also known as **the Safe and Secure Innovation for Frontier Artificial Intelligence Models Act**, which aims to add new requirements to the development of large AI models by setting out various testing, safety, and enforcement standards -- The bill will return to the Senate floor for a final vote and, if approved, Governor Gavin Newsom will have until September 30, 2024 to veto the bill -- See Leigha Beckman, Minna Lo Naranjo, Dion M. Bregman, and Andrew J. Gray IV, **"California's SB 1047 Would Impose New Safety Requirements for Developers of Large-Scale AI Models"**, Morgan Lewis, August 29, 2024 https://www.morganlewis.com/pubs/2024/08/californias-sb-1047-would-impose-new-safety-requirements-for-developers-of-large-scale-ai-models

Special Reading Suggestions

- Saily Lad, **"Safer and smarter roads ahead with IoT-powered traffic management systems,"** Express Computer, August 29, 2024 https://www.expresscomputer.in/guest-blogs/safer-and-smarter-roads-ahead-with-iot-powered-traffic-management-systems/115467/
- Márk Szabó, **"Old devices, new dangers: The risks of unsupported IoT tech,"** Welivesecurity, August 27, 2024 https://www.welivesecurity.com/en/internet-of-things/old-devices-new-dangers-the-risks-of-unsupported-iot-tech/
- Mayank Sharma, **"Internet of Things (IoT): What is it, and how can you use it,"** The Middle East Economy, August 26, 2024 https://economymiddleeast.com/news/internet-of-things-iot-what-is-it-and-how-can-you-use-it/
- Alex Passett, **"ICYMI: Five Updates from the World of IoT,"** IoT Evolution (8/23/24), https://www.iotevolutionworld.com/iot/articles/460534-icymi-five-updates-from-world-iot.htm and **"ICYMI: Your IoT Updates before the Labor Day Weekend,"** (8/30/2024) https://www.iotevolutionworld.com/iot/articles/460587-icymi-iot-updates-before-labor-day-weekend.htm
- IoT Business News posting, **"How to Launch a Successful Internet of Things (IoT) Startup,"** IoT Business News, August 19, 2024 https://iotbusinessnews.com/2024/08/19/19789-how-to-launch-a-successful-internet-of-things-iot-startup/
- Constantine von Hoffman, **"For consumers, AI is the new IoT,"** Martech, August 16, 2024 https://martech.org/for-consumers-ai-is-the-new-iot/
- Rich Edmonds, **"5 myths about IoT devices that you don't need to worry about,"** Xda, August 14, 2024 https://www.xda-developers.com/myths-about-iot-devices-that-you-dont-need-to-worry-about/

Selected IoT Perspectives
Internet of Things and the insurance industry

*"Long accustomed to traditional models of risk assessment and policy pricing, insurers are now embracing the disruptive potential of Internet of Things (IoT) and telematics technologies. These cutting-edge tools offer unprecedented insights into policyholders' behaviour and assets, revolutionising the way insurers evaluate risk and tailor coverage," Fintech Global posting, **"How IoT and telematics are transforming insurance,"** Fintech Global, April 24, 2024 https://fintech.global/2024/04/24/how-iot-and-telematics-is-transforming-insurance/*

- Joydeep Bhattacharyya, **"Transforma Insights identifies nine key 'Domains of Change' for the insurance industry, driven by the use of emerging technology,"** IoT Now, August 26, 2024 https://www.iot-now.com/2024/08/26/146039-transforma-insights-identifies-nine-key-domains-of-change-for-the-insurance-industry-driven-by-the-use-of-emerging-technology/
- Akenza AG, **"How IoT Supports Insurance Claims to Prevent Water Damage,"** IoT for all, July 17, 2024 https://www.iotforall.com/how-iot-supports-insurance-claims-to-prevent-water-damage
- Michael Starks, **"Revolutionizing insurance: The Internet of Things (IoT) era,"** Lenderdock, March 7, 2024 https://lenderdock.com/2024/03/07/revolutionizing-insurance-the-internet-of-things-iot-era/
- Cem Dilmegani, **"6 Ways IoT will Change the Insurance Sector in 2024,"** AI Multiple Research, February 13, 2024 https://research.aimultiple.com/insurance-iot/
- Erfan Zamanian, **"IoT in Insurance; 2024 Review,"** Neuroject, February 1, 2024 https://neuroject.com/iot-in-insurance/

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