



Digest is compiled by Alain Louchez,
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CHRONICLE OF DIGITAL TRANSFORMATION THROUGH INTERNET OF THINGS TECHNOLOGIES

Some biweekly perspectives from
around the globe gathered by
CDAIT

(2400 entries since April 1, 2022)
https://cdait.gatech.edu/sites/default/files/2024-04/Digital_Transformation_Through_IoT_Technologies_April_30_2024.pdf

GOVERNANCE & THE INTERNET OF THING

Tom Bleach, "The New PSTI [UK's Product Security and Telecommunications Infrastructure] Act is a Good Start, But do Smart Devices Still Need Better Protections?" The Fintech Times, April 27, 2024
<https://thefintechtimes.com/the-new-psti-act-is-a-good-start-but-do-smart-devices-still-need-better-protections/>

Dimitris Paraskevopoulos, "Challenges with IoT product launches: Why time-to-market has increased 80% in 4 years," IoT Analytics, April 25, 2024
<https://iot-analytics.com/challenges-iot-product-launches-why-time-to-market-has-increased-80-percent-in-4-years/>

Prashant Pujara, "Investing in IoT Applications: All You Need to Know," HackerNoon, April 25, 2024
<https://hackernoon.com/investing-in-iot-applications-all-you-need-to-know>

Chad Cox, "Is Talk of Industry 5.0 Premature?" Embedded Computing, April 24, 2024
<https://embeddedgecomputing.com/application/industrial/industrial-iot/is-talk-of-industry-50-premature>

Jen Roberts, Trey Herr, Emma Taylor, Nitansha Bansal, "Markets Matter: A Glance into the Spyware Industry," The Digital Forensic Research Lab (DFRLab) at the Atlantic Council, April 22, 2024
<https://dfrlab.org/2024/04/22/markets-matter-a-glance-into-the-spyware-industry/>

Deepak Gupta, "The Unseen Powerhouse: Demystifying Authentication Infrastructure for Tech Leaders," Security Boulevard, April 17, 2024
<https://securityboulevard.com/2024/04/the-unseen-powerhouse-demystifying-authentication-infrastructure-for-tech-leaders/>

GT CDAIT Biweekly IoT News Digest (4/24 – 2)

Georgia Tech IoT-related Info/Research Noticed by CDAIT

IoT News and Market Reports

(First Half of April 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 – 15 entries:
https://cdait.gatech.edu/sites/default/files/2024-04/IoT_News_Filings_April_2024_Second_Half.pdf
- Sample list of IoT-related market reports gathered by CDAIT – 65 entries: https://cdait.gatech.edu/sites/default/files/2024-04/IoT_News_Filings_April_2024_Second_Half.pdf

OF NOTE: DirectIndustry, "Hannover Messe 2024 [April 22-26] Kicks Off Today: What's in Store?" Direct Industry, April 22, 2024 <https://emag.directindustry.com/2024/04/22/hannover-messe-2024-kicks-off-today-whats-in-store/>; MSCN Reporter, "Microsoft premieres updates to its IoT transformation strategy at Hannover Messe 2024," MSDW, April 22, 2024 <https://msdynamicsworld.com/story/microsoft-premieres-updates-its-iot-transformation-strategy-hannover-messe-2024>; Scarlett Evans, "AWS Demonstrates Industrial IoT Tools, Hannover 2024," IoT World Today, April 22, 2024 <https://www.iotworldtoday.com/iiot/aws-demonstrates-industrial-iot-tools-hannover-2024>

Special Reading Suggestions

- MedTech Outlook posting, "Power of IoT Integration in Revolutionizing Medical Sensors," Medical Outlook, April 24, 2024 <https://www.medicaltechoutlook.com/news/power-of-iot-integration-in-revolutionizing-medical-sensors-nwid-3371.html>
- Datasciencetest posting, "Internet of Things (IoT): What is it and how does it work?" Datasciencetest, April 24, 2024 <https://datasciencetest.com/en/all-about-internet-of-things>
- Tiffani Neilson, "How the IoT Market is Changing," IoT for All [video 31:20], April 23, 2024 <https://www.iotforall.com/podcasts/e341-how-the-iot-market-is-changing#watch-the-video>
- Russell Ruben, "Storage: A Secret to IoT Innovation," DevPro Journal, April 23, 2024 <https://www.devprojournal.com/technology-trends/internet-of-things/storage-a-secret-to-iot-innovation/>
- Keith Shaw chats with David Howard, director of technical sales at Quectel, "Has the hype around 'Internet of Things' paid off?," Network World [Video 36:04], April 18, 2024 <https://www.networkworld.com/video/2093393/has-the-hype-around-internet-of-things-paid-off.html>
- Satyajit Sinha, "The rise of smart and AI-capable cellular IoT modules: Evolution and market outlook," IoT Analytics, April 16, 2024 <https://iot-analytics.com/rise-of-smart-ai-capable-cellular-iot-modules/>
- Curtis Govan, "What is Hyperlocal Global IoT Connectivity?" IoT For All Podcast [22:50], April 16, 2024 <https://www.iotforall.com/podcasts/e340-what-is-hyperlocal-global-iot-connectivity>

Selected IoT Perspectives Ambient IoT

"The next stage of evolution for the IoT, the Ambient IoT refers to a new class of innovative form-factor designs and low-maintenance or maintenance-free devices primarily powered by harvesting energy from any viable ambient source. Ambient energy sources can include radio waves, light, motion, and heat, among others." Chuck Sabin, "Ambient IoT is the next wave of IoT technology," Fierce Electronics, April 5, 2024 <https://www.fierceelectronics.com/iot-wireless/ambient-iot-next-wave-iot-technology>

- James Blackman, "We'll ask how the economy ever ran offline' – pressure to fast-track ambient IoT," RCR Wireless, December 12, 2023 <https://www.rcrwireless.com/20231212/internet-of-things-4/well-ask-how-the-economy-ever-ran-offline-pressure-to-fast-track-ambient-iot>
- Joe O'Halloran, "IoT seeks 5G Advanced possibilities with world's first ambient IoT visibility platform," Computer Weekly, September 28, 2023 <https://www.computerweekly.com/news/366553675/IoT-seeks-5G-Advanced-possibilities-with-worlds-first-ambient-IoT-visibility-platform>
- Dan O'Shea, "Tired of IoT? Change is in the air with 'Ambient IoT'," Fierce Electronics, September 28, 2023 <https://www.fierceelectronics.com/iot-wireless/tired-iot-change-air-ambient-iot>
- Steve Statler, "Ambient Internet of Things: Biggest Retail Advancement Since the Price Tag," Sourcing Journal, August 7, 2023 <https://sourcingjournal.com/topics/thought-leadership/ambient-internet-of-things-willot-retail-inventory-shrink-omnichannel-supply-chain-448871/>
- Robert J. Bowman, "Welcome to the World of 'Ambient' IoT," SupplyChainBrain, June 5, 2023 <https://www.supplychainbrain.com/articles/37380-welcome-to-the-world-of-ambient-iot>

Research background info (sample): Butt, M. Majid, Nitin R. Mangalvedhe, Nuno K. Pratas, Johannes Harrebeck, John Kimionis, Muhammad Tayyab, Oana-Elena Barbu, Rapeepat Ratasuk, and Benny Vejlgaard, "Ambient IoT: A missing link in 3GPP IoT devices landscape," IEEE Internet of Things Magazine 7, no. 2 (2024): 85-92 <https://ieeexplore.ieee.org/abstract/document/10463656>; YANG, Yibing, Ming LIU, Rongtao XU, Gongpu WANG, and Wei GONG, "Link Budget and Enhanced Communication Distance for Ambient Internet of Things," ZTE Communications 22, no. 1 (2024): 16 <http://ztc.magtechjournal.com/CN/10.12142/ZTECOM.202401003>; Ren, Xiongpeng, Jin Cao, Hui Li, and Yinghui Zhang, "Novel Authentication Protocols Tailored for Ambient IoT Devices in 3GPP 5G Networks," arXiv preprint arXiv:2404.02425 (2024) <https://arxiv.org/abs/2404.02425>; Liao, Jingyi, Kalle Koskinen, Xiyu Wang, Boxuan Xie, Kalle Ruttik, Riku Jäntti, and Dinh-Thuy Phan-Huy, "UE [User Equipment] Assisted Ambient Internet of Things in LTE Downlink, Energy Autonomous," In 6G Summit Abu Dhabi. 2023 <https://research.aalto.fi/en/publications/demo-ue-assisted-ambient-iot-in-lte-downlink-in-real-time-and-ope>

<https://cdait.gatech.edu>



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