



## CHRONICLE OF DIGITAL TRANSFORMATION THROUGH INTERNET OF THINGS TECHNOLOGIES

Some biweekly perspectives from around the globe gathered by CDAIT

(1350 entries since April 1, 2022)  
[https://cdait.gatech.edu/sites/default/files/2023-06/Digital\\_Transformation\\_Through\\_IoT\\_Technologies\\_June\\_15\\_2023.pdf](https://cdait.gatech.edu/sites/default/files/2023-06/Digital_Transformation_Through_IoT_Technologies_June_15_2023.pdf)

## GOVERNANCE & THE INTERNET OF THING

Tim Hinchliffe, "US intelligence looks to 'anonymize conversational speech' recorded by IoT devices in real-time," *The Sociable*, June 13, 2023  
<https://sociable.co/government-and-policy/us-intelligence-anonymize-speech-iot-devices-real-time/>

Achal Kothari, "Policy and regulatory considerations for ADAS [Advanced Driver-Assistance Systems]-IoT integration in smart city planning," *The Times of India*, June 12, 2023  
<https://timesofindia.indiatimes.com/blogs/voices/policy-and-regulatory-considerations-for-adas-iot-integration-in-smart-city-planning/>

Deborshi Barat, "India: Back To The Future: India's Proposed Digital Governance Framework," *Mondaq*, June 1, 2023  
<https://www.mondaq.com/india/data-protection/1324188/back-to-the-future-indias-proposed-digital-governance-framework>

Telefónica, "Spanish Smart Cities and the National Plan for smart cities," Telefónica website, June 1, 2023  
<https://www.telefonica.com/en/communication-room/blog/spanish-smart-cities-and-the-national-plan-for-smart-cities/>

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## Biweekly IoT News Digest (06/23 – 1)

### Georgia Tech IoT-related Info/Research Noticed by CDAIT

### IoT News and Market Reports

(First Half of June 2023)

- 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/2023-06/IoT\\_News\\_Filings\\_June\\_2023\\_First\\_Half.pdf](https://cdait.gatech.edu/sites/default/files/2023-06/IoT_News_Filings_June_2023_First_Half.pdf)
- Sample list of IoT-related market reports gathered by CDAIT – 80 entries: [https://cdait.gatech.edu/sites/default/files/2023-06/IoT\\_Market\\_Reports\\_June\\_2023\\_First\\_Half.pdf](https://cdait.gatech.edu/sites/default/files/2023-06/IoT_Market_Reports_June_2023_First_Half.pdf)

- Doumanidis, Constantine, Yongyu Xie, Prashant HN Rajput, Ryan Pickren, Burak Sahin, Saman Zonouz, and Michail Maniatakos. "Dissecting the Industrial Control Systems Software Supply Chain," *IEEE Security & Privacy* (online May 16, 2023) <https://ieeexplore.ieee.org/abstract/document/10136825>
- Zhao, Binbin, Shouling Ji, Jiacheng Xu, Yuan Tian, Qiuyang Wei, Qinying Wang, Chenyang Lyu et al. "One Bad Apple Spoils the Barrel: Understanding the Security Risks Introduced by Third-Party Components in IoT Firmware," *IEEE Transactions on Dependable and Secure Computing* (online May 25, 2023) <https://ieeexplore.ieee.org/abstract/document/10135135>
- Ciortea, Andrei, Xiaomin Zhu, Calton Pu, and Munindar P. Singh. "Introduction to the Special Issue on Multiagent Systems and Services in the Internet of Things." *ACM Transactions on Internet Technology* 22, no. 4 (online March 3, 2023): 1-3 <https://dl.acm.org/doi/abs/10.1145/3584744>

**OF NOTE:** Knud Lasse Lueth, "Winning in IoT: How the enterprise IoT market is evolving," *IoT Analytics* [Hamburg, Germany], June 7, 2023 <https://iot-analytics.com/how-enterprise-iot-market-is-evolving/> ---- "The future of IoT is the convergence of AI and IoT"; "Nearly half of all IoT applications to be AI-infused by 2027"

### Special Reading Suggestions

- Special Smart Home Week articles (5), "Smart homes for smart people," *The Verge*, June 12, 2023 <https://www.theverge.com/23724605/smart-home-apple-google-amazon-matter>
- Diana Ambolis, "What Is Metaverse Of Things(MoT) And How It Is Different From Internet Of Things (IoT)," *Blockchain Magazine*, June 12, 2023 <https://blockchainmagazine.net/what-is-metaverse-of-thingsmot-and-how-it-is-different-from-internet-of-things-iot/>
- Joe Rodriguez, "The Confluence of AI and IoT: The Emergence of Smart Devices," *Down to Game*, June 6, 2023 <https://dtgreviews.com/uncategorised/the-confluence-of-ai-and-iot-the-emergence-of-smart-devices/1322/>
- EE Telecom posting, "Economy of Things' may be new telco revenue opportunity: Vodafone-STL Partners report," *EE Telecom*, June 2, 2023 <https://telecom.economictimes.indiatimes.com/news/industry/economy-of-things-may-be-new-telco-revenue-opportunity-vodafone-stl-partners-report/100692324>
- Brian Whitaker, "4 Ways to Enhance IoT Battery Performance Using Emulation Software," *EE Times [Asia]* June 1, 2023 <https://www.eetasia.com/4-ways-to-enhance-iot-battery-performance-using-emulation-software/>
- Prateek Saxena, "Role of IoT in Changing the EV Charging Landscape," *Energetica*, June 1, 2023 <https://www.energetica-india.net/articles/role-of-iot-in-changing-the-ev-charging-landscape>

### Selected IoT Perspectives The Internet of Things in Retail

"Over the past years, IoT adoption has become a more common practice across the retail industry, and the trend is gaining momentum today. According to Allied Market Research, the global retail IoT market is expected to reach \$177.90 billion by 2031, growing at a CAGR of 20.3% from 2022 to 2031," "7 practical applications of IoT in retail," *IoT Business News*, May 23, 2023 <https://iotbusinessnews.com/2023/05/23/93450-7-practical-applications-of-iot-in-retail/>

- Phil Britt, "How IoT is Redefining Your Shopping Spree," *CMS Wire*, June 5, 2023 <https://www.cmswire.com/internet-of-things/how-iot-is-redefining-your-shopping-spree/>
- HTF Market Report press release, "Internet of Things in Retail Market Is Booming So Rapidly | IBM, Microsoft, Google," *EnterpriseAppsToday*, May 31, 2023 <https://www.enterpriseappstoday.com/news/internet-of-things-in-retail-market-is-booming-so-rapidly-ibm-microsoft-google.html>
- Erika Arena, "The Race is On: 2023 is a Crucial Year for Retail Modernization," *Mytotalretail*, May 15, 2023 <https://www.mytotalretail.com/article/the-race-is-on-2023-is-a-crucial-year-for-retail-modernization/>
- Ian Ivory, Dr. Tilman Kuhn, and Ingrid Wijnmalen, "Five Recent Trends in the Consumer & Retail Sector," *JD Supra*, May 4, 2023 <https://www.jdsupra.com/legalnews/five-recent-trends-in-the-consumer-6388885/>
- Megan Crouse, "NRF [National Retail Federation] 2023: How ambient computing could change retail," *Tech Republic*, January 17, 2023 <https://www.techrepublic.com/article/nrf-2023-ambient-computing-change-retail/>

**Research background info (sample):** Argyropoulou, Maria, Elaine Garcia, Soheila Nemati, and Konstantina Spanaki. "The effect of IoT capability on supply chain integration and firm performance: an empirical study in the UK retail industry," *Journal of Enterprise Information Management* (April 11, 2023) <https://www.emerald.com/insight/content/doi/10.1108/JEIM-06-2022-0219/full/html>; Gupta, Omdeep, and Pradeep Joshi. "Applications of IoT in Retail: A Systematic Review," In 2023 International Conference on Device Intelligence, Computing and Communication Technologies (DICCT), pp. 86-89. IEEE, May 1, 2023 <https://ieeexplore.ieee.org/abstract/document/10110252>; Zheng, Xinyu, and Syed Imran Ali. "Potential of Internet of Things (IoT) and Blockchain Technology in the Collaboration and Integration of the Retail Supply Chain," In *Global Policy and Strategies for Blockchain: Building Ecosystems and Sustainability*, pp. 189-222. IGI Global, 2023 <https://www.igi-global.com/chapter/potential-of-internet-of-things-iot-and-blockchain-technology-in-the-collaboration-and-integration-of-the-retail-supply-chain/323233>; Gideon, Awini, Mohammed Majeed, Emmanuel Nii-Ayi Solomon, Adu-Debrah Kankor Lorna, and Mensah Kobby. "Internet of Things and Retail Performance in an Emerging Market: A Qualitative Analysis," In *Advances in Information Communication Technology and Computing: Proceedings of AICTC 2022*, pp. 145-161. Singapore: Springer Nature Singapore, 2023 [https://link.springer.com/chapter/10.1007/978-981-19-9888-1\\_11](https://link.springer.com/chapter/10.1007/978-981-19-9888-1_11); Srinadh, Guddanti, Goli Naveen Kumar, Gera Billgates, and MV Sheela Devi. "Effective Billing Methodology in Large Scale Stores/Malls using IoT," In 2023 5th International Conference on Smart Systems and Inventive Technology (ICSSIT), pp. 424-429. IEEE, added to IEEE Xplore March 14, 2023 <https://ieeexplore.ieee.org/abstract/document/10061137>