



CHRONICLE OF DIGITAL TRANSFORMATION THROUGH INTERNET OF THINGS TECHNOLOGIES

Some biweekly perspectives from around the globe gathered by CDAIT (800 entries)

https://cdait.gatech.edu/sites/default/files/2022-12/Digital_Transformation_Through_IoT_Technologies_December_31_2022.pdf

GOVERNANCE & THE INTERNET OF THINGS

Franklin Graves, "Here's how sweeping legal changes will affect content creators in 2023" [includes perspectives related to AI and ML], Tubefilter, December 29, 2022 <https://www.tubefilter.com/2022/12/29/content-creators-legal-effects-2023/>

Reply press release, "The Reply Research 'Cloud Governance: Focus on FinOps [an evolving cloud financial discipline]' Has Revealed That the Key to Reap the Benefits of Cloud Computing Are Cultural Change, Increased Investment in Governance and Cost Optimisation," Business Wire, December 22, 2022 <https://www.businesswire.com/news/home/20221222005246/en/>

Trevor H. Rudolph, "Need for Regulatory Harmonization Highlighted at Annual U.S.-EU Cyber Dialogue," The U.S. Chamber of Commerce, December 21, 2022 <https://www.uschamber.com/security/cybersecurity/need-for-regulatory-harmonization-highlighted-at-annual-u-s-eu-cyber-dialogue>

Carsten Rhod Gregerson, "EU Cyber Resilience Act: the GDPR for IoT," Embedded, December 20, 2022 <https://www.embedded.com/eu-cyber-resilience-act-the-gdpr-for-iot/>

Odisha Diary Bureau, "[India's] Government Has Taken Up Various Activities Using Internet Of Things (IoT) And Artificial Intelligence (AI) In Agriculture : [Union Minister of Agriculture & Farmers' Welfare] Narendra Singh Tomar," Orissa Diary, December 20, 2022 <https://orissadiary.com/government-has-taken-up-various-activities-using-internet-of-things-iot-and-artificial-intelligence-ai-in-agriculture/>

Ibraheem Kasujee, "Public IoT tariffs remain few and far between, but prepaid and LPWA tariffs are increasingly popular," IoT Business News, December 15, 2022 <https://iotbusinessnews.com/2022/12/15/1480-0-public-iot-tariffs-remain-few-and-far-between-but-prepaid-and-lpwa-tariffs-are-increasingly-popular/>

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Biweekly IoT News Digest (12/22 – 2)

IoT News and Market Reports

(Second Half of December 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 – 16 entries - See: https://cdait.gatech.edu/sites/default/files/2022-12/IoT_News_Filings_December_2022_Second_Half.pdf
- Sample list of **IoT-related market reports** gathered by CDAIT– 67 entries – See: https://cdait.gatech.edu/sites/default/files/2022-12/IoT_Market_Reports_December_2022_Second_Half.pdf

Georgia Tech IoT-related Info/Research Noticed by CDAIT

- Mavris, Dimitri N., Zayn Roohi, Gabriel Fronk, Sabastian Abelezele, Ruby Al Fawares, Olivia J. Pinon Fischer, Aroua Gharbi, Alexander Karl, John Matlik, and Bryan Scherwing, "Implementing the Digital Thread-A Proof-of-Concept," (January 25, 2023) <https://smartech.gatech.edu/handle/1853/69992>
- X. Li, H. Chen, T. Ploetz, M. Wu and Z. Chen, "Guest Editorial Special Issue on Computational Intelligence for IoT-based Human Activity Recognition," in IEEE Transactions on Emerging Topics in Computational Intelligence, vol. 6, no. 4, pp. 725-727, Aug. 2022, doi: 10.1109/TETCI.2022.3190920 <https://ieeexplore.ieee.org/abstract/document/9834992>
- Nafees, Muhammad Nouman, Neetesh Saxena, Alvaro Cardenas, Santiago Grijalva, and Pete Burnap, "Smart grid cyber-physical situational awareness of complex operational technology attacks: A review," ACM Computing Surveys (CSUR) (October 2022) <https://dl.acm.org/doi/abs/10.1145/3565570>

OF NOTE: Karl Greenberg, "[Comcast] Study: Consumer security savvy is way behind IoT threat landscape," TechRepublic, December 20, 2022 <https://www.techrepublic.com/article/consumer-security-behind-iot-threat-landscape/> --- Daren Fonda, "The Rise of the Robot Worker: Why Your Job Is Safe for Now," Barron's, December 23, 2022 <https://www.marketwatch.com/articles/robot-jobs-51671667349?mod=home-page>

Special Reading Suggestions (recent IoT predictions for 2023)

- Stacey Higginbotham, "10 things that will be big next year in the IoT," Stacey on IoT, December 26, 2022 <https://staceyoniot.com/10-things-that-will-be-big-next-year-in-the-iot/>
- Ian Barker, "Cheaper sensors, privacy challenges and stronger standards -- Internet of Things predictions for 2023," Beta News, December 23, 2022 <https://betanews.com/2022/12/23/cheaper-sensors-privacy-challenges-and-stronger-standards-internet-of-things-predictions-for-2023/>
- Leigh McGowan, "5 IoT predictions experts expect to see in 2023," Silicon Republic, December 20, 2022 <https://www.siliconrepublic.com/enterprise/iot-predictions-tech-trends-2023>
- Sectrio, "Specific IoT and OT security predictions for North America for 2023," Security Boulevard, December 20, 2022 <https://securityboulevard.com/2022/12/specific-iot-and-ot-security-predictions-for-north-america-for-2023/>
- Gauri Kelkar, "Top 7 IoT Trends That Will Shape the Digital World in 2023," Emeritus, December 9, 2022, <https://emeritus.org/blog/technology-program-iot-trends-2023/>
- Kasturi Chaudhuri, "Top 5 IoT Trends that will Shape the Future in 2023," ELE Times December 9, 2022 <https://www.eletimes.com/top-5-iot-trends-that-will-shape-the-future-in-2023>
- Eseye [U.K.] press release, "Eseye Predicts Seismic Changes for IoT in 2023," IoT for All, December 1, 2022 <https://www.iotforall.com/press-releases/eseye-predicts-seismic-changes-for-iot-in-2023>

Selected IoT Perspectives

The Internet of Things (IoT) in Banking, Financial Services & Insurance (BFSI)

"As the financial industry is increasingly ushered into the Digital Age, the need to improve its services increases. The IoT is one important technology that will continue to keep them competitive in the years to come."

IoT Business News, "4 Ways The IoT Is Helping Financial Services Support Their Customers," IoT Business News May 4, 2022 <https://iotbusinessnews.com/2022/05/04/03450-4-ways-the-iot-is-helping-financial-services-support-their-customers/>

- Mike Hoy, "How The IoT Will Deliver More Power To Finance," Finance Monthly, December 19, 2022 <https://www.finance-monthly.com/2022/12/how-the-iot-will-deliver-more-power-to-finance/>
- Advanced Market Analytics press release, "IoT in Banking & Financial Services Market Is in Huge Demand," Digital Journal, December 6, 2022 <https://www.digitaljournal.com/pr/iot-in-banking-financial-services-market-is-in-huge-demand-microsoft-infosys-software-ag-vodafone#ixzz7neh0sPpY>
- S. Anand, "Internet of Things(IoT) is changing the way financial services operate," The Times of India, December 6, 2022 <https://timesofindia.indiatimes.com/blogs/voices/internet-of-things-iot-is-changing-the-way-financial-services-operate/>

Research background info (sample): Mistry, Janki, and Ritesh Khatwani. "The Role of the Internet of Things in the Future of Banking, Financial Services, and Insurance," (preprint, October 13, 2022) https://www.techrxiv.org/articles/preprint/The_Role_of_the_Internet_of_Things_in_the_Future_of_Banking_Financial_Services_and_Insurance/21298293; Bhat, Jagadeesh R., Salman A. AlQahtani, and Maziar Nekovee. "FinTech enablers, use cases, and role of future internet of things," Journal of King Saud University-Computer and Information Sciences (September 5, 2022). <https://www.sciencedirect.com/science/article/pii/S1319157822003159>; Surekha, Nayak, Rangasamy Sangeetha, Chellasamy Aarthi, Rajamohan Kavitha, and R. Anuradha. "Leveraging Blockchain Technology for Internet of Things Powered Banking Sector," In Blockchain based Internet of Things, pp. 181-207. Springer, Singapore, 2022 https://link.springer.com/chapter/10.1007/978-981-16-9260-4_8; Sheeba, P. S. "An Overview of IoT in Financial Sectors," Real-Life Applications of the Internet of Things (2022): 249-270 <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003277460-13/overview-iot-financial-sectors-sheeba>; Saeed, Maryam, Noman Arshed, and Haikuan Zhang. "The Adaptation of Internet of Things in the Indian Insurance Industry—Reviewing the Challenges and Potential Solutions." Electronics 11, no. 3 (January 29, 2022): 419 <https://www.mdpi.com/2079-9292/11/3/419>