



CHRONICLE OF DIGITAL TRANSFORMATION THROUGH INTERNET OF THINGS TECHNOLOGIES

Some biweekly perspectives from around the globe gathered by CDAIT

(850 entries)

https://cdait.gatech.edu/sites/default/files/2023-01/Digital_Transformation_Through_IoT_Technologies_January_15_2023.pdf

GOVERNANCE & THE INTERNET OF THINGS

Jayasri Priyala, "The 'Job' Culture Is Changing in The Post-Pandemics Era," IDN-InDepth News, January 14, 2023 <https://www.indepthnews.net/index.php/opinion/5872-the-job-culture-is-changing-in-the-post-pandemics-era>

Kamlesh Patel, "What's the deal with Industry 4.0?," Data Center Dynamics, January 14, 2023 <https://www.datacenterdynamics.com/en/opinions/whats-the-deal-with-industry-40/>

Börje Ekholm, "5 ways digitalization can help build global resilience in 2023," World Economic Forum, January 13, 2023 <https://www.weforum.org/agenda/2023/01/5-ways-digitalization-can-help-build-global-resilience-davos2023/>

Diane Groth, "Explore the relationship between IoT governance and privacy," Tech Target [IoT Agenda], January 10, 2023 <https://www.techtarget.com/iotagenda/tip/Explore-the-relationship-between-IoT-governance-and-privacy>

Elizabeth MacBride, "The dark web's criminal minds see Internet of Things as next big hacking prize," CNBC, January 9, 2023 <https://www.cnbc.com/2023/01/09/the-dark-webs-criminal-minds-see-iot-as-the-next-big-hacking-prize.html>

Ingrid Vasilu Feltes, "Leadership In The Metaverse Era," Forbes, January 9, 2023 <https://www.forbes.com/sites/forbesbusinesscouncil/2023/01/09/leadership-in-the-metaverse-era/?sh=70643df3dea>

Blaker Moret, "Even China, India face labour shortages. Can automation rescue the world?" The Print, January 8, 2023 <https://theprint.in/features/even-china-india-face-labour-shortages-can-automation-rescue-the-world/1304199/>

Mark Appleby, "Tackling public sector energy security and management through the IoT," Open Government, January 5, 2023 <https://www.openaccessgovernment.org/tackling-g-public-sector-energy-management-through-the-internet-of-things/150624/>

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Biweekly IoT News Digest (01/23 – 1)

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 – 15 entries - See: https://cdait.gatech.edu/sites/default/files/2023-01/IoT_News_Filings_January_2023_First_Half.pdf
- Sample list of IoT-related market reports gathered by CDAIT– 71 entries – See: https://cdait.gatech.edu/sites/default/files/2023-01/IoT_Market_Reports_January_2023_First_Half.pdf

Georgia Tech IoT-related Info/Research Noticed by CDAIT

- Portilla, L., Loganathan, K., Faber, H., Aline Eid, Jimmy G. D. Hester, Manos M. Tentzeris, et al. "Wirelessly powered large-area electronics for the Internet of Things," Nature Electronics (December 28, 2022). <https://doi.org/10.1038/s41928-022-00898-5>
- Various IoT-related projects by the Bio-Interfaced Translational Nanoengineering Group at the GT Institute for Electronics and Nanotechnology Center for Human-Centric Interfaces and Engineering under the direction of Dr. W. Hong Yeo <https://sites.google.com/view/yeogroup>
- Kim, Kinam, Inbae Jeong, and Yong K. Cho. "Signal Processing and Alert Logic Evaluation for IoT-Based Work Zone Proximity Safety System," Journal of Construction Engineering and Management 149, no. 2 (2023): 05022018 <https://ascelibrary.org/doi/abs/10.1061/JCEMD4.COENG-12417>

OF NOTE: Justin Mikoilai, "4 IoT Themes and 9 Standout Companies from CES 2023," IoT for All, January 11, 2023 <https://www.iotforall.com/4-iot-themes-and-9-standout-companies-from-ces-2023>; Matt Haldane, "CES 2023: IoT security concerns? No matter. Chinese smart home firms among big adopters of new standard," South China Post, January 9, 2023 <https://www.scmp.com/tech/big-tech/article/3206011/ces-2023-iot-security-concerns-no-matter-chinese-smart-home-firms-among-big-adopters-new-standard>; Karisa Langlo, "How CES 2023 Killed My Fear of the Techpocalypse," CNET, January 8, 2023 <https://www.cnet.com/culture/how-ces-2023-killed-my-fear-of-the-techpocalypse/>; David B. McGarry, "CES 2023: Cybersecurity for IoT Devices Should be Market-Driven," Broadband Breakfast, January 6, 2023 <https://broadbandbreakfast.com/2023/01/ces-2023-cybersecurity-for-iot-devices-should-be-market-driven/>; Dan O'Shea, "IoT grabs early attention before CES 2023 gates open," Fierce Electronics, January 3, 2023 <https://www.fierceelectronics.com/iot-wireless/iot-grabs-early-attention-ces-2023-gates-open>

Special Reading Suggestions

- Pranesh Chaudhary, "The future is IoT: A guide to the transformation to smart cities," Times of India, January 13, 2023 <https://timesofindia.indiatimes.com/blogs/voices/the-future-is-iot-a-guide-to-the-transformation-to-smart-cities/>
- Anand Taparia, "IoT 2022 in review: The 10 Most Relevant IoT Developments of the Year," IoT Analytics, January 9, 2023 <https://iot-analytics.com/iot-2022-in-review/>
- Agibail Saltmarch, "The 'AIoT' and its Role in the Future of Healthcare," E-Magazine by Medical Expo, January 6, 2023 <https://emag.medicalexpo.com/the-aiot-and-its-role-in-the-future-of-healthcare/>
- Steve Anderson, "Internet of Things (IoT) Leveraging Blockchain Could do Wonders," The Coin Republic, January 3, 2023 <https://www.thecoinrepublic.com/2023/01/03/internet-of-things-iot-leveraging-blockchain-could-do-wonders/>

Selected IoT Perspectives

Internet of Things (IoT) Analytics

"Internet of Things (IoT) analytics is the use of data science techniques to derive actionable insights from the vast volumes of information collected by IoT devices. Common applications of IoT analytics include predictive maintenance, supply chain management, and prescriptive analytics."

Adam Simons, "Internet of Things (IoT) Analytics: Understanding Data," Dgtl Infra, November 9, 2022 <https://dgtlinfra.com/internet-of-things-iot-analytics/>

- Persistence Market Research press release, "Internet of Things (IoT) Analytics Market Predicted to Rise at a CAGR of 16.2% by the end of 2025," OpenPR, December 27, 2022 <https://www.openpr.com/news/2863442/internet-of-things-iot-analytics-market-predicted-to-rise-at>
- Karem Gülen, "Unlocking the full potential of connected devices with IoT analytics," Dataconomy, December 23, 2022 <https://dataconomy.com/2022/12/23/iot-analytics-architecture-use-cases-jobs/>
- Scarlett Evans, "Four Major Trends in IoT Analytics in 2023," IoT World Today, December 22, 2022 <https://www.iotworldtoday.com/2022/12/22/four-major-trends-in-iot-analytics-in-2023/>
- Kihara Kimachia, "Top IoT Analytics Providers," Enterprise Networking Planet, October 21, 2022 <https://www.enterprisenetworkingplanet.com/management/iot-analytics-providers/>

Research background info (sample): Soldatos, John. "Introducing IoT Analytics," In Building Blocks for IoT Analytics Internet-of-Things Analytics, pp. 3-10. River Publishers, 2022 https://www.researchgate.net/publication/365142065_Introducing_IoT_Analytics; Barnaghi, Payam, Martin Bauer, Abdur Rahim Biswas, Maarten Botterman, Bin Cheng, Flavio Cirillo, Markus Dillinger et al. "IoT Analytics: Collect, Process, Analyze, and Present Massive Amounts of Operational Data-Research and Innovation Challenges," In Building the Hyperconnected Society-Internet of Things Research and Innovation Value Chains, Ecosystems and Markets, pp. 221-260. River Publishers, 2022 <https://www.mdpi.com/2227-7390/10/6/982>; Mohammad Daradkeh, "Characterizing the Capabilities of Internet of Things Analytics Through Taxonomy and Reference Architecture: Insights From Content Analysis of the Voice of Practitioners," DOI: 10.4018/JITR.299929, Journal of Information Technology Research, Volume 15 • Issue 1 (2022) <https://www.igi-global.com/pdf.aspx?tid=299929&ptid=277876&ctid=4&oa=true&csxn=9781683180340>