



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

CHRONICLE OF DIGITAL TRANSFORMATION (DT) THROUGH INTERNET OF THINGS TECHNOLOGIES

Some biweekly perspectives on DT from around the globe gathered by CDAIT - 50 added for this Digest (3500 entries since April 1, 2022) https://cdait.gatech.edu/sites/default/files/2025-03/Digital_Transformation_Through_IoT_Technologies_end-of-march-2025.pdf

GOVERNANCE & THE INTERNET OF THINGS

Paul Wagenseil, "The compliance clock is ticking: How IoT manufacturers can prepare for the [EU] Cyber Resilience Act," SC Media, March 29, 2025 <https://www.scworld.com/resource/the-compliance-clock-is-ticking-how-iot-manufacturers-can-prepare-for-the-cra>

Kimberly Breier & Diego Bonomo, "Brazil's Internet of Things Tax Relief Due to Expire in 2025," Covington, Inside Global Tech, March 28, 2025 <https://www.insideglobaltech.com/2025/03/28/brazils-internet-of-things-tax-relief-due-to-expire-in-2025/>

Mandi Kogosowski, "Securing the Unseen: Cyber Resilience in the Age of AI-Driven IoT," Israel Defense, March 25, 2025 <https://www.israeldefense.co.il/en/node/64715>

Joe McKendrick, "The Internet of Things Meets the Right-to-Repair Movement," RT Insights, March 18, 2025 <https://www.rtinsights.com/the-internet-of-things-meets-the-right-to-repair-movement/>

Cities Today posting, "Simplifying IoT management: Three challenges to overcome as public sector leaders," Cities Today, March 17, 2025 <https://cities-today.com/industry/simplifying-iot-management-three-challenges-to-overcome-as-public-sector-leaders/>

Prof. Engr. Zamir Ahmed Awan, "The Mobile Economy: Driving the Future of Digital Transformation," Modern Diplomacy, March 15, 2025 <https://moderndiplomacy.eu/2025/03/15/the-mobile-economy-driving-the-future-of-digital-transformation/>

Carl Ford (edited by Erik Linask), "Is 1+14 the next Y2K for Telecom?" IoT Evolution, March 14, 2025 <https://www.iotevolutionworld.com/iot/articles/462020-114-next-y2k-telecom.htm>

Stacey Higgenbotham, "Why We're Introducing Model Legislation to Prevent Zombie IoT Devices," Consumer Reports, March 13, 2025 <https://innovation.consumerreports.org/model-legislation-to-prevent-zombie-iot-devices/>

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Biweekly IoT News Digest (03/25 – 2)

Georgia Tech IoT-related Info/Research Noticed by CDAIT

IoT News and Market Reports

(Second Half of March 2025)

- 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/2025-03/IoT_News_Filings_March_2025_Second_Half.pdf
- Sample list of IoT-related market reports gathered by CDAIT – 50 entries: https://cdait.gatech.edu/sites/default/files/2025-03/IoT_Market_Reports_March_2025_Second_Half.pdf

- Gong, Xuejian, Mulang Song, Shu Wang, Roger J. Jiao, and Petri Helo. "Crowdsourced Manufacturing in Industry 4.0: Implications and Prospects," Systems 13, no. 3 (2025): 183 <https://www.mdpi.com/2079-8954/13/3/183>
- Roth, Phillip H., Ana Maria Guzmán Olmos, Alin Olteanu, and Stefan Bösch, eds. [note: GT's Timothy Stoneman is one of the contributors], "Making Media Futures: Machine Visions and Technological Imaginations," Taylor & Francis, 2025 <https://www.taylorfrancis.com/books/edit/10.4324/9781003467915/making-media-futures-phillip-roth-alin-olteanu-ana-mar%C3%ADa-guzm%C3%A1n-olmos-stefan-b%C3%B6sch>
- Yu, Xiaofan, Lanxiang Hu, Benjamin Reichman, Dylan Chu, Rushil Chandrupatla, Xiyuan Zhang, Larry Heck, and Tajana Rosing, "SensorChat: Answering Qualitative and Quantitative Questions during Long-Term Multimodal Sensor Interactions," arXiv preprint arXiv:2502.02883 (2025) <https://arxiv.org/abs/2502.02883>

OF NOTE: Ed Dante, "Every Major Cybersecurity Compliance Standard To Know in 2025," Fractional CISO, December 20, 2024 <https://fractionalciso.com/cybersecurity-compliance-standards/> -- Note the official date to comply with Payment Card Industry Data Security Standards Council (PCI DSS) 4.0. (following the publication of the limited revision to the standard, **PCI DSS v4.0.1** on June 11, 2024) remains **March 31, 2025**, see <https://www.fortra.com/blog/difference-between-pci-dss-40-and-pci-dss-401-are-you-ready> and <https://blog.pcisecuritystandards.org/just-published-pci-dss-v4-0-1>

Special Reading Suggestions

- The 21th Annual International Conference on Distributed Computing in Smart Systems and the Internet of Things (DCOSS-IoT 2025) will take place in Tuscany (Lucca), Italy, **June 9-11, 2025** <https://dcoss.org/>
- Sudhir Kunder, "AIoT: The Intersection of AI and IoT in Smart City Evolution," TimesTech, March 26, 2025 <https://timestech.in/aiot-the-intersection-of-ai-and-iot-in-smart-city-evolution/>
- Stamatis Astra, "How Google's 2025 Search Changes Will Reshape Communications in IoT," AI Business, March 20, 2025 <https://aibusiness.com/iot/how-google-s-2025-search-changes-will-reshape-communications-in-iot#close-modal>
- ANI, "India to shift focus from energy to AI, IoT, semiconductors: Piyush Goyal [India's Commerce and Industry Minister]," ET Auto, March 20, 2025 <https://auto.economicstimes.indiatimes.com/news/industry/india-to-shift-focus-from-energy-to-ai-iot-semiconductors-piyush-goyal/119242110>
- Evans S., "Crypto, Blockchain and IoT: Siemens Takes A Giant Step Towards The Industry Of The Future," Cointribune, March 19, 2025 <https://www.cointribune.com/en/crypto-blockchain-and-iot-siemens-takes-a-giant-step-towards-the-industry-of-the-future/>
- Analytics Insight posting, "How IoT Is Revolutionizing Road Safety," Analytics Insight, March 18, 2025 <https://www.analyticsinsight.net/internet-of-things/how-iot-is-revolutionizing-road-safety>
- Sharath Chander Reddy Baddam, "Edge Computing Adoption in IIoT," Automation.com, March 18, 2025 <https://www.automation.com/en-us/articles/march-2025/edge-computing-adoption-iiot?listname=Automation%20&%20Control%20News%20&%20Articles>
- The Malaysian Reserve posting, "Govt support crucial to accelerate AI and IoT adoption – expert," The Malaysian Reserve, March 16, 2025 https://themalaysianreserve.com/2025/03/16/govt-support-crucial-to-accelerate-ai-and-iot-adoption-expert/#google_vignette

Selected IoT Perspectives

Internet of Things and Cyber-Physical Systems (CPS)

"Contemporary Cyber-Physical Systems (CPS) are smart compound systems engineered through seamless integration of embedded information processing sub-systems and physical sub-systems. The modern smart collaborating CPS, that started to form the Cyber-Physical Systems of Systems (CPSoS) and Internet of Things (IoT), have important applications in virtually all economic and social segments, and their huge economic and societal impact rapidly increases. The CPS and IoT area undergo a revolutionary development." **13th International Conference on Cyber-Physical Systems**, June 10-14, 2025, Budva, Montenegro <https://mecoconference.me/cpsiot2025/>

- SNS Insider pvt ltd press release, "Cyber-Physical Systems (CPS) Market to Hit USD 358.4 Billion by 2032, Driven by Growing Demand for Smart Manufacturing and Automation," Globe Newswire, March 17, 2025 <https://www.globenewswire.com/news-release/2025/03/17/3043763/0/en/Cyber-Physical-Systems-CPS-Market-to-Hit-USD-358-4-Billion-by-2032-Driven-by-Growing-Demand-for-Smart-Manufacturing-and-Automation-Research-by-SNS-Insider.html>
- John Gallagher, "The Silent Infiltration: How Powerful CPS Devices Are Amplifying Cyber Risks for Businesses," Security Boulevard, March 14, 2025 <https://securityboulevard.com/2025/03/the-silent-infiltration-how-powerful-cps-devices-are-amplifying-cyber-risks-for-businesses/>
- Industrial Cyber posting, "Gartner details emergence of cyber-physical systems protection platforms," Industrial Cyber, February 19, 2025 <https://industrialcyber.co/news/gartner-details-emergence-of-cyber-physical-systems-protection-platforms/>
- The 16th ACM/IEEE International Conference on Cyber-Physical Systems (ICCPs) will take place in Irvine, California, USA, from May 6-9, 2025 as part of the CPS-IoT Week 2025 <https://cps-iot-week2025.ics.uci.edu/>
- Hari Harikrishnan, "A Cyber-Physical Systems Approach to IoT Standards," IoT for all, December 2, 2024 <https://www.iotforall.com/cyber-physical-systems-approach-iot>

Research background info (sample): Baris, Ozan, Yizhuo Chen, Gaofeng Dong, Liying Han, Tomoyoshi Kimura, Pengrui Quan, Ruijie Wang et al. "Foundation Models for CPS-IoT: Opportunities and Challenges," arXiv preprint arXiv:2501.16368 (2025) <https://arxiv.org/abs/2501.16368>; Magade, Krishananjali, and Amit Sharma. "Significant role of IoT in Cyber-Physical Systems, Context Awareness, and Ambient Intelligence." In The Next Generation Innovation in IoT and Cloud Computing with Applications, pp. 16-34. CRC Press, 2025 <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003406723-2/significant-role-iot-cyber-physical-systems-context-awareness-ambient-intelligence-krishananjali-magade-amit-sharma>; Alkhudhayr, Hanadi, and Hanin Ardah. "Mitigating cyberphysical risks in IoT-enabled smart transport infrastructure," The Journal of Supercomputing 81, no. 2 (2025): 446 <https://link.springer.com/article/10.1007/s11227-025-06948-x>; -- See also **Cyber-Physical Systems at the National Institute of Standards and Technology (NIST):** <https://www.nist.gov/cyberphysical-systems> and "Cyber Physical Systems and Internet of Things Program" NIST, updated April 6, 2022 https://www.sciencedirect.com/journal/internet-of-things-and-cyber-physical-systems?__cf_chl_tk=g1ElubmR19xXu_uUVyyWzI8iVX1.IftCYBcqajJwLI-1743168135-1.0.1.1-xfD7UJaqfBiqx1PKAioGWIhh6vFt1XN6cnVD32AYSqU



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