



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

(2350 entries since April 1, 2022)
https://cdait.gatech.edu/sites/default/files/2024-04/Digital_Transformation_Through_IoT_Technologies_April_15_2024.pdf

GOVERNANCE & THE INTERNET OF THING

Gargi Sarkar, "[Indian] Government
Forms Five Working Groups
[including IoT] To Address Key
Digital Challenges," Startup News,
April 9, 2024
<https://startupnews.fyi/2024/04/09/government-forms-five-working-groups-to-address-key-digital-challenges/>

Watson Farley & Williams (WFW)
posting, "The EU data act: when
aviation meets the Internet of
Things," WFW, April 9, 2024
<https://www.wfw.com/articles/the-eu-data-act-when-aviation-meets-the-internet-of-things/>

Steven Farmer, Scott Morton and Mark
Booth, "The EU and UK Introduce
New IoT Security Standards,"
Interenet and Technology Law, April
9, 2024
<https://www.internetandtechnologylaw.com/eu-uk-new-iot-security-standards/>

Joseph Madzimore, "Govt
[Zimbabwe] steps up effort to
promote IoT growth," The Herald,
April 5, 2024
<https://www.herald.co.zw/govt-steps-up-efforts-to-promote-iot-growth/>

Alex Joel, "Why We Need a National
Data Protection Strategy," Just
Security, April 4, 2024
<https://www.justsecurity.org/94249/why-we-need-national-data-protection-strategy/>

Christopher Boniface, Lachlan
Urquhart, Melissa Terras,
"Towards a right to repair for the
Internet of Things: A review of
legal and policy aspects,"
Computer Law & Security Review,
Volume 52, April 2024,
105934, ISSN 0267-3649,
<https://doi.org/10.1016/j.clsr.2024.105934>

Japan's Ministry of Economy, Trade
and Industry (METI), "IoT Product
Security Conformity Assessment
Scheme Policy Draft," METI, March
15, 2024 Public comments: March 15 -
April 15, 2024
https://www.meti.go.jp/english/press/2024/0315_001.htm

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Biweekly IoT News Digest (4/24 - 1)

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_First_Half.pdf
- Sample list of IoT-related market reports gathered by CDAIT – 65 entries: https://cdait.gatech.edu/sites/default/files/2024-04/IoT_Market_Reports_April_2024_First_Half.pdf

OF NOTE: NIST [National Institute of Standards and Technology] CSWP [Cybersecurity White Paper] 33 (Initial Public Draft), "Product Development Cybersecurity Handbook: Concepts and Considerations for IoT Product Manufacturers," NIST, April 3, 2024 <https://csrc.nist.gov/pubs/cswp/33/product-development-cybersecurity-handbook/ipd> --Initial Public Draft can be accessed here: <https://nvlpubs.nist.gov/nistpubs/CSWP/NIST.CSWP.33.ipd.pdf>

Special Reading Suggestions

- Laurenz Dallinger, "IoT in InsurTech: Revolution of the Insurance Industry," RT Insights, April 10, 2024 <https://www.rtinsights.com/iot-in-insurtech-revolution-of-the-insurance-industry/>
- Anail Kempanna, "Connecting IoT with 5G network through innovative approaches," Techcircle, April 8, 2024 <https://www.techcircle.in/2024/04/08/connecting-iot-with-5g-network-through-innovative-approaches>
- TuxCare team, "Expert Insights on IoT Security Challenges in 2024," Security Boulevard, April 5, 2024 <https://securityboulevard.com/2024/04/expert-insights-on-iot-security-challenges-in-2024/>
- Sudeep Srivastava, "The Intersection of IoT and Robotics: Transforming Industries and Workforce," Appinventiv, April 4, 2024 <https://appinventiv.com/blog/iot-in-robotics/>
- Antoinette Hodes, "Two sides of AI in the Industrial Internet of Things," TechRadar Pro, April 4, 2024 <https://www.techradar.com/pro/two-sides-of-ai-in-the-industrial-internet-of-things>
- Ryan Miller, "IoT in Supply Chain Management: Streamlining Logistics and Distribution," CEO World Magazine, April 1, 2024 <https://ceoworld.biz/2024/04/01/iot-in-supply-chain-management-streamlining-logistics-and-distribution/>
- Embedded Computing Design Staff, "The Evolution of AIoT from AI Experts," Embedded Computing [Podcast 53:57], April 1, 2024 <https://embeddedcomputing.com/technology/ai-machine-learning/the-evolution-of-aiot-from-ai-experts>

Selected IoT Perspectives

The Internet of Things and Industry 5.0 as of 2024

"Industry 5.0 represents the next evolutionary phase of the industry, focusing on the integration of advanced technologies with human abilities to enhance both productivity and worker well-being. It builds on the efficiency and productivity targets of Industry 4.0 with responsible business practices to enhance sustainability, profitability, and employee welfare. Industrial IoT (IIoT) is a critical enabling technology to achieve these goals; the ability to monitor and measure nearly anything will allow businesses to successfully pursue digital transformation to enable Industry 5.0." Donna Moore, CEO and Chairwoman, LoRa Alliance, "TWD 2024: How Industrial IoT Can Enable Industry 5.0," IT Brief Australia, March 7, 2024 <https://itbrief.com.au/story/how-industrial-iiot-can-enable-industry-5-0>

- Asutosh Mohanty, "Industry 4.0, industry 5.0 & digital transformation revolutionising manufacturing sector," Organiser [India], April 2, 2024 <https://organiser.org/2024/04/02/230601/sci-tech/industry-4-0-industry-5-0-digital-transformation-revolutionizing-manufacturing-sector/>
- Rihika Pawar, "Industry 5.0: A Step Toward Mankind," Timestech, March 13, 2024 <https://timestech.in/industry-5-0-a-step-toward-mankind/>
- Pablo Valerio, "Industry 5.0: Human-Centric, Fueled by Wireless," EPS News, March 14, 2024 <https://epsnews.com/2024/03/14/industry-5-0-human-centric-fueled-by-wireless/>
- Allied Market Research press release, "Industry 5.0 Market to Reach \$637.4 Billion, Globally, by 2032 at 17.3% CAGR," PR Newswire, March 6, 2024 <https://www.prnewswire.co.uk/news-releases/industry-5-0-market-to-reach-637-4-billion-globally-by-2032-at-17-3-cagr-allied-market-research-302081779.html>

Research background info (sample): Sharma, Megha, Abhinav Tomar, and Abhishek Hazra, "Edge Computing for Industry 5.0: Fundamental, Applications and Research Challenges," IEEE Internet of Things Journal (2024) <https://ieeexplore.ieee.org/abstract/document/10462492>; Singh, Akhilesh Kumar, Ajeet Sharma, Pradeep kumar Singh, Surabhi Kesarwani, and Amit Pratap Singh, "Internet of Things and Sensor Networks in Industry 5.0: Connecting Devices and Machines," In Emerging Technologies in Digital Manufacturing and Smart Factories, pp. 67-78. IGI Global, 2024 <https://www.igi-global.com/chapter/internet-of-things-and-sensor-networks-in-industry-5-0/336123>; Hassan, Muhammad Ali, Shehnila Zardari, Muhammad Umer Farooq, Marwah M. Alansari, and Shimaa A. Nagro, "Systematic Analysis of Risks in Industry 5.0 Architecture," Applied Sciences 14, no. 4 (2024): 1466 <https://www.mdpi.com/2076-3417/14/4/1466>; Adel, Amr. 2024. "The Convergence of Intelligent Tutoring, Robotics, and IoT in Smart Education for the Transition from Industry 4.0 to 5.0" Smart Cities 7, no. 1: 325-369., published January 30, 2024 <https://doi.org/10.3390/smartcities7010014> -- See: IoT15 2024: 6th International Workshop on IoT Applications and Industry 5.0, Abu Dhabi, UAE, April 29-May 1, 2024 <http://ioti5-2024.cs.ihu.gr/>

