



GT CDAIT

Biweekly IoT News Digest (04/22 – 2)

CHRONICLE OF DIGITAL TRANSFORMATION THROUGH INTERNET OF THINGS TECHNOLOGIES

Some biweekly perspectives from around the globe gathered by CDAIT (68 entries)

https://cdait.gatech.edu/sites/default/files/2022-05/Digital_Transformation_Through_IoT_Technologies_April_30_2022.pdf

GOVERNANCE & THE INTERNET OF THINGS

Robin Mitchell, "Dorset Council to integrate 5G IoT devices into homes for vulnerable people," Electropages, April 28, 2022

<https://www.electropages.com/blog/2022/04/dorset-council-integrate-5g-iot-devices-homes-vulnerable-people>

Data Journalism Team, "Europe is seeing a hiring boom in military industry IoT roles," Army Technology, April 27, 2022 <https://www.army-technology.com/analysis/europe-is-seeing-a-hiring-boom-in-military-industry-iot-roles/>

Chris Riotta, "CISA [The U.S. Cybersecurity and Infrastructure Security Agency] is helping pave the way to secure IoT systems, FEMA official says", FCW, April 26, 2022 <https://fcw.com/security/2022/04/cisa-helping-pave-way-secure-iot-systems-fema-official-says/366149/>

Tahir Amin, "The World Bank has recommended Pakistan's policymakers to carefully balance implementing new specific Internet of Things (IoT) regulation with creating an environment that allows IoT innovation to thrive," Business Recorder, April 22, 2022 <https://www.brecorder.com/news/40168747>

FastCo Works (Fast Company's branded content studio), "How EVs and the Internet of Things are accelerating corporate ESG action," Fast Company, April 20, 2022 <https://www.fastcompany.com/90742231/how-evs-and-the-internet-of-things-are-accelerating-corporate-esg-action>

John Grady, "Panel: Pentagon's Joint All-Domain Command and Control Plan is 'The Internet of Warfighting,'" U.S. Naval Institute News, April 19, 2022 <https://news.usni.org/2022/04/19/panel-pentagons-joint-all-domain-command-and-control-plan-is-the-internet-of-warfighting>

Andy Castillo, "Report: Governments stand to benefit from 'metaverse' and its associated technologies," American City & County, April 18, 2022 <https://www.americacityandcounty.com/2022/04/18/report-governments-stand-to-benefit-from-metaverse-and-its-associated-technologies/>

IoT News and Market Reports

(Second Half of April 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/2022-04/IoT_News_Filings_April_2022__Second_Half.pdf
- Sample list of **IoT-related market reports** gathered by CDAIT– 93 entries – See: https://cdait.gatech.edu/sites/default/files/2022-04/IoT_Market_Reports_April_2022_Second_Half.pdf

Georgia Tech IoT-related Info/Research Noticed by CDAIT

- "Georgia Tech to Help Define Future of Microelectronics Industry," Georgia Tech Research, April 7, 2022 <https://research.gatech.edu/georgia-tech-help-define-future-microelectronics-industry>
- Khan, Mohammad Ayoub, and Amit Kumar. "Scalable Design and Processor Technology for IoT Applications." In Internet of Things, pp. 2-12. CRC Press, 2022 <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003122357-2/scalable-design-processor-technology-iot-applications-mohammad-ayoub-khan-amit-kumar>
- Walter Rich, "Georgia Tech Aiding in the National Response to Supply Chain Disruptions," Georgia Tech Research, April 7, 2022 [*"The Secure America Institute (SAI) and the Advanced Robotics for Manufacturing (ARM) Institute are partnering with Georgia Tech to investigate how robotics and automation in manufacturing can enhance the resiliency, flexibility, and competitiveness of U.S. industrial base supply chains"*] <https://research.gatech.edu/georgia-tech-aiding-national-response-supply-chain-disruptions>

OF NOTE: IEEE 8th World Forum on Internet of Things, October 26–November 11, 2022 // Yokohama, Japan, hybrid: in person and virtual conference, information at <https://wf2022.iot.ieee.org/> --- See also **Internet of Things (IoT) Conferences 2022/2023/2024** [This site is an international indexed listing of upcoming meetings, seminars, congresses, workshops, programs, continuing CME courses, trainings, summits, and weekly, annual or monthly symposiums on IoT] <https://conferenceindex.org/conferences/internet-of-things-iot>

Special Reading Suggestions

- Tony D'Onofrio, "Then and Now: RFID, Self-Checkout, and IoT," Loss Prevention Magazine, April 29, 2022 <https://losspreventionmedia.com/then-and-now-rfid-self-checkout-and-iot/>
- Dan Teare, "The Internet of Things – The Answer to a Nation Understaffed and Overworked," Business News Wales, April 28, 2022 <https://businessnewswales.com/the-internet-of-things-the-answer-to-a-nation-understaffed-and-overworked/>
- Scott Laliberte and Matthew Freilich, "Implement NIST IoT cybersecurity guidelines early," Security Magazine, April 26, 2022 <https://www.securitymagazine.com/articles/97494-implement-nist-iot-cybersecurity-guidelines-early>
- Antony Savvas, "After the Sigfox rescue, how do you make IoT work?," IoT Now, April 25, 2022 <https://www.ionow.com/2022/04/25/120899-after-the-sigfox-rescue-how-do-you-make-iot-work/>
- Evelyn Johnson, "On the benefits and drawbacks of AI and IoT in different industries," Maddynews, April 21, 2022 <https://www.maddynews.com/uk/2022/04/21/on-the-benefits-and-drawbacks-of-ai-and-iot-in-different-industries/>
- NetworkNewsWire Editorial Coverage, "Powerful Technology and Parabolic Growth [re. IoT market for smart homes and connected cars (smart cars)], PRNewswire, April 19, 2022 <https://www.prnewswire.com/news-releases/powerful-technology-and-parabolic-growth-301527641.html>

Selected IoT Perspectives Blockchain and the Internet of Things

"Widespread blockchain adoption could come from a lot of areas, but it's a pretty safe bet that if IoT is to fulfill its potential, revolutionizing security via blockchain will be a foundational technology"()*

(*) Art Malkov, "Blockchain And IoT: The Next Frontier Of Device Connectivity," Forbes, August 2, 2021 <https://www.forbes.com/sites/forbesbusinesscouncil/2021/08/02/blockchain-and-iot-the-next-frontier-of-device-connectivity/?sh=47d84aa73891>

- Business World Online Bureau, "Blockchain Is Perfect Resolution For Global Supply Chain," BW Disrupt, April 26, 2022 [*"Blockchain emerges as a perfect use case to improve visibility across the entire supply chain. It integrates with other technologies such as IoT, RFID, process automation, smart sensors, etc., to facilitate a predictable, verifiable, and secure exchange of information."*] <http://bwdisrupt.businessworld.in/article/Blockchain-Is-Perfect-Resolution-For-Global-Supply-Chain/26-04-2022-426558/>
- Eray Eliacik, "Best books about blockchain you can read in 2022," dataconomy, April 25, 2022 <https://dataconomy.com/2022/04/best-blockchain-books-2022/>
- Report Ocean press release, "Europe blockchain Internet of Things (IoT) Market Present Scenario and Growth Prospects With CAGR Value," [*"Europe blockchain Internet of Things (IoT) market was valued at \$72.2 million in 2020 and will grow by 68.0% annually over 2020-2030"*] Irish Emigrant, April 21, 2022 <https://www.irishemigrant.com/europe-blockchain-internet-of-things-iot-market-present-scenario-and-growth-prospects-with-cagr-value/>
- Vishal Cherian, "IoT Blockchain Revolution Is Here: Here's Why You Should Pay Attention," IoT for All, February 1, 2022 <https://www.ietfforall.com/iot-blockchain-revolution-is-here-heres-why-you-should-pay-attention>
- Lauren Horwitz, "How Blockchain Technology Can Benefit the Internet of Things," IoT for All, May 31, 2021 <https://www.ietfworldtoday.com/2021/05/31/how-blockchain-technology-can-benefit-the-internet-of-things/>
- Research background info (sample):** Kumar, R. Lakshmana, Firoz Khan, Seifedine Kadry, and Seungmin Rho. "A Survey on blockchain for industrial Internet of Things," Alexandria Engineering Journal 61, no. 8 (August 2022): 6001-6022 <https://www.sciencedirect.com/science/article/pii/S1110016821007560>; Huo, Ru, Shiqin Zeng, Zhihao Wang, Jijia Shang, Wei Chen, Tao Huang, Shuo Wang, F. Richard Yu, and Yunjie Liu. "A Comprehensive Survey on Blockchain in Industrial Internet of Things: Motivations, Research Progresses, and Future Challenges," IEEE Communications Surveys & Tutorials (online January 10, 2022) <https://ieeexplore.ieee.org/abstract/document/9676337>; Abdelzahir Abdelmaboud, Abdelmutlib Ibrahim Abdalla Ahmed, Mohammed Abaker, Taiseer Abdalla Elfadil Eisa, Hashim Albasheer, Sara Abdelwahab Ghorashi and Faten Karim, "Blockchain for IoT Applications: Taxonomy, Platforms, Recent Advances, Challenges and Future Research Directions," Electronics 2022, 11(4), 630, published online February 18, 2022 <https://doi.org/10.3390/electronics11040630>