



GT CDAIT

Biweekly IoT News Digest (02/22 – 2)

Georgia Tech IoT-related Info/Research Noticed by CDAIT

IoT News and Market Reports

(Second Half of February 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 – 13 entries - See: https://cdait.gatech.edu/sites/default/files/2022-02/IoT_News_Filings_February_2022_Second_Half_1.pdf
- Sample list of **IoT-related market reports** gathered by CDAIT– 90 entries – See: https://cdait.gatech.edu/sites/default/files/2022-02/IoT_Market_Reports_February_2022_Second_Half.pdf

- H. Yan, W. Bao, X. Zhu, J. Wang and L. Liu, "Data Offloading Enabled by Heterogeneous UAVs for IoT Applications under Uncertain Environments," in IEEE Internet of Things Journal, published online February 14, 2022 doi: 10.1109/JIOT.2022.3151053 <https://ieeexplore.ieee.org/abstract/document/9712650>
- OECD (2021), "AI and the Future of Skills," Volume 1: Capabilities and Assessments, Educational Research and Innovation, OECD Publishing, Paris, <https://doi.org/10.1787/5ee71f34-en> - See Chapter 8 by Phillip L. Ackerman (Georgia Tech), "Abilities and skills: Assessing humans and artificial intelligence/robotics systems"

OF NOTE: Elena Sánchez Nicolás, "EU [European Union] seeks to capture the value of the Internet of Things," EUobserver, February 23, 2022 <https://euobserver.com/democracy/154418>; D. C. Nguyen et al., "6G Internet of Things: A Comprehensive Survey," in IEEE Internet of Things Journal, vol. 9, no. 1, pp. 359-383, 1 Jan. 1, 2022, doi: 10.1109/JIOT.2021.3103320 <https://ieeexplore.ieee.org/document/9509294>

Special Reading Suggestions

- Victor Konstanje, "Big Ideas in IoT Security, Mobile and Cellular," RFID Journal, February 27, 2022 <https://www.rfidjournal.com/big-ideas-in-iot-security-mobile-and-cellular>
- Reuters, "Taiwan sees limited impact from Ukraine war on chip supply chain," February 26, 2022 <https://www.reuters.com/markets/europe/taiwan-sees-limited-impact-ukraine-war-chip-supply-chain-2022-02-26/>
- Michael Waylant, "Russian invasion of Ukraine to further strain U.S. chip supply for auto, tech industries," CNBC, February 24, 2022 <https://www.cnbc.com/2022/02/24/russian-invasion-of-ukraine-to-further-strain-us-chip-supply.html>
- Ryan Ellington, "How the Internet of Things is revolutionising the packaging industry," Packaging Gateway, February 21, 2022 <https://www.packaging-gateway.com/features/how-iot-is-revolutionising-the-packaging-industry/>
- Steve Hilton, "How to measure IoT scalability in the real world," IoT Now, February 15, 2022 <https://www.iot-now.com/2022/02/15/119389-how-to-measure-iot-scalability-in-the-real-world/>

Selected IoT Perspectives

The Internet of Things and Food Supply

"Advances in Internet of Things (IoT)-related technologies can help eliminate key causes of food waste." ()*

(*) Sukamal Banerjee, "7 ways the Internet of Things can help end world hunger," World Economic Forum, January 15, 2018 <https://www.weforum.org/agenda/2018/01/internet-things-iot-world-hunger-supply-chain/>

- TBRC Business Research Pvt Ltd. Press release, "Blockchain In Agriculture And Food Supply Chain Market Players Integrate IoT For Reliable Financial Transactions," EINnews, February 25, 2022 https://www.einnews.com/pr_news/564068627/blockchain-in-agriculture-and-food-supply-chain-market-players-integrate-iot-for-reliable-financial-transactions
- Staff reporter, "Agriculture organisations don't use their IoT data as effectively as they could," Farmers Review Africa, February 23, 2022 <https://farmersreviewafrica.com/agriculture-organisations-dont-use-their-iot-data-as-effectively-as-they-could/>
- Kate Birch, "Leveraging technology to tackle record food waste highs," Business Chief, February 15, 2022 <https://businesschief.com/sustainability/leveraging-technology-to-tackle-record-food-waste-highs>
- Michael Goodier, "Europe sees hiring boom in food industry IoT roles," Just Food, February 10, 2022 <https://www.just-food.com/features/europe-sees-hiring-boom-in-food-industry-iot-roles-data/>
- Prateek Saxena, "14 Ways IoT is Impacting the Food & Agriculture Industry," Appinventiv, September 23, 2021 <https://appinventiv.com/blog/ways-iot-is-changing-food-agriculture-industry/>

Research background info (sample): Kodan, Rahul, Mahmoud Said Rashed, Mohammad Khalid Pandit, Puneet Parmar, and Shivani Pathania. "Internet of things in food industry," In Innovation Strategies in the Food Industry, pp. 287-303. Academic Press, 2022 <https://www.sciencedirect.com/science/article/pii/B9780323852036000190>; Powell, Warwick, Marcus Foth, Shoufeng Cao, and Valéri Natanelov. "Garbage in garbage out: The precarious link between IoT and blockchain in food supply chains," Journal of Industrial Information Integration 25 (2022): 100261 <https://www.sciencedirect.com/science/article/abs/pii/S2452414X21000595>; Nagarajan, Senthil Murugan, Ganesh Gopal Deverajan, Puspita Chatterjee, Waleed Alnumay, and V. Muthukumar. "Integration of IoT based routing process for food supply chain management in sustainable smart cities," Sustainable Cities and Society 76 (2022): 103448 <https://www.sciencedirect.com/science/article/abs/pii/S2210670721007216>; Satapathy, Suchismita, Debesh Mishra, and Arturo Realyvásquez Vargas. "Food Safety and IoT-Based Solution," In Innovation in Agriculture with IoT and AI, pp. 79-98. Springer, Cham, 2022 https://link.springer.com/chapter/10.1007/978-3-030-88828-2_6; Chalke, Snehal, Sowmya Ganesan, Krishna Gajera, Pooja Reshim, and Nita Patil. "The Freshness of Food Detection Using IoT and Machine Learning," In Sentimental Analysis and Deep Learning, pp. 347-356. Springer, Singapore, 2022 https://link.springer.com/chapter/10.1007/978-981-16-5157-1_27; Rejeb, Abderahman, Karim Rejeb, Alireza Abdollahi, Suhaiza Zailani, Mohammad Iranmanesh, and Morteza Ghobakhloo. "Digitalization in food supply chains: A bibliometric review and key-route main path analysis," Sustainability 14, no. 1 (2022): 83 <https://www.mdpi.com/2071-1050/14/1/83>

Georgia Tech Center for the Development and Application of Internet of Things Technologies
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COVID-19 &

THE INTERNET OF THINGS

See some perspectives gathered by CDAIT on the use of IoT technologies in preventing and monitoring COVID-19 like infectious diseases, & pandemic impact on IoT and related (incl. post-pandemic) issues – as of 2/28/2022 – 1185 entries:

https://cdait.gatech.edu/sites/default/files/2022-02/Covid-19_IoT_January_2020_February_28_2022_1.pdf

GOVERNANCE & THE INTERNET OF THINGS

Inmarsat press release, "Security and privacy concerns prevent effective use of IoT data, Inmarsat research reveals," Inmarsat website, February 23, 2022

<https://www.inmarsat.com/en/news/latest-news/enterprise/2022/security-privacy-concerns-iot-data.html>

Ann Cao, "China's metaverse frenzy reaches new heights as number of trademark applications hits 16,000," South China Morning Post, February 22, 2022

https://www.scmp.com/tech/policy/article/3167936/chinas-metaverse-frenzy-reaches-new-heights-number-trademark?mc_cid=dc5e00e37b&mc_cid=ef0b0e87e1

Kay Jebelli, "The EU IoT Sector Inquiry and the DMA [Digital Markets Act] Contradiction," Disruptive Competition Project, February 18, 2022 <https://www.project-disco.org/european-union/021822-the-eu-iot-sector-inquiry-and-the-dma-contradiction/>

Usman Hanif, "PTA [Pakistan Telecommunication Authority] releases Internet of Things framework," Tribune, February 17, 2022 <https://tribune.com.pk/story/2343875/pta-releases-internet-of-things-framework>

Shirin Gaffary and Sara Morrison, "Can Facebook monopolize the metaverse? - The company's new direction is already sparking government scrutiny," Recode, February 16, 2022 https://www.vox.com/recode/22933851/meta-facebook-metaverse-antitrust-regulation?mc_cid=622305e853&mc_cid=ef0b0e87e1

T.J. York, "Internet Pioneer Vint Cerf Says Digital Inclusion is More Than Just Access," Broadband Breakfast, February 15, 2022 <https://broadbandbreakfast.com/2022/02/internet-pioneer-vint-cerf-says-digital-inclusion-is-more-than-just-access/>