



## 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 issues – as of 11/30/2021 – 1073 entries:

[https://devcdait.gatech.edu/sites/default/files/covid-19\\_iot\\_january\\_2020\\_november\\_30\\_2021.pdf](https://devcdait.gatech.edu/sites/default/files/covid-19_iot_january_2020_november_30_2021.pdf)

## GOVERNANCE & THE INTERNET OF THINGS

Cordell Green, “Smart cities through the lens of human rights – technological and ethical dilemmas,” Jamaica Gleaner, November 28, 2021 <https://jamaica-gleaner.com/article/commentary/20211128/cordell-green-smart-cities-through-lens-human-rights-technological-and>

Hanisi Anininh, “New times for the Internet of Things in Europe: the European Union introduces new requirements for electronics known to be insecure,” Modular Phones Forum, November 21, 2021 <https://www.modularphonesforum.com/new-times-for-the-internet-of-things-in-europe-the-european-union-introduces-new-requirements-for-electronics-known-to-be-insecure/>

Anthony Hendricks and Jordan E.M. Sessler, “IoT Devices as Government Witnesses,” posted by Marc Handelman, Security Boulevard, November 21, 2021 <https://securityboulevard.com/2021/11/defcon-29-iot-village-ssessler-and-hendricks-iot-devices-as-government-witnesses/>

Susan Miller, “NIST [National Institute of Standards and Technology] calls for insights on emerging technologies [including Internet of Things]” Comments are due January 31, ‘22, GCN, November 20, 2021 <https://gcn.com/articles/2021/11/20/nist-emerging-tech.aspx>

Rebecca Oi, “UK protects citizen privacy by radically strengthening its data protection laws - The British government reacts to the advent of newer technologies such as artificial intelligence (AI), the Internet of Things (IoT), and big data,” TechHQ, November 18, 2021 <https://techhq.com/2021/11/uk-gdpr-seeks-free-and-responsible-data-flow/>

Luis Monzon, “5 Ways IoT is Revolutionising African Homes,” Africa IT News, November 17, 2021 <https://www.itnewsafrika.com/2021/11/5-ways-iot-is-revolutionising-african-homes/>

Ja’han Jones, “Why the NSA [National Security Agency] wants to protect you from your toothbrush,” ReidOut Blog, MSNBC, November 12, 2021 <https://www.msnbc.com/the-reidout/reidout-blog/usa-internet-of-things-rcna5469>

# GT CDAIT

## Biweekly IoT News Digest (11/21 – 2)

## Georgia Tech IoT-related Info/Research Noticed by CDAIT

- IoT News and Market Reports (Second Half of November 2021)
  - 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://devcdait.gatech.edu/sites/default/files/iot\\_news\\_filings\\_november\\_2021\\_second\\_half.pdf](https://devcdait.gatech.edu/sites/default/files/iot_news_filings_november_2021_second_half.pdf)
  - Sample list of IoT-related market reports gathered by CDAIT – 62 entries – See: [https://devcdait.gatech.edu/sites/default/files/iot\\_market\\_report\\_s\\_november\\_2021\\_second\\_half.pdf](https://devcdait.gatech.edu/sites/default/files/iot_market_report_s_november_2021_second_half.pdf)
- Tohid Shekari, Celine Irvine, Alvaro A. Cardenas and Raheem Beyah, “MaMIoT: Manipulation of Energy Market Leveraging High Wattage IoT Botnets,” CCS ’21: Proceedings of the 2021 ACM SIGSAC Conference on Computer and Communications Security, November 2021, Pages 1338–1356 <https://doi.org/10.1145/3460120.3484581>
- Shyam Krishnan Venkateswaran, Ching-Lun Tai, Yoav Ben-Yehzekel, Yaron Alpert and Raghupathy Sivakumar, “Extending Battery Life for Wi-Fi-Based IoT Devices: Modeling, Strategies, and Algorithm,” MobiWac ’21: Proceedings of the 19th ACM International Symposium on Mobility Management and Wireless Access November 2021 Pages 147–156 <https://doi.org/10.1145/3479241.3486699>
- Luisa Nazareno, and Daniel Schiff, “The impact of automation and artificial intelligence on worker well-being,” Technology in Society, online September 10, 2021 <https://doi.org/10.1016/j.techsoc.2021.101679>

OF NOTE: Robin Duke-Woolley, “Welcome to the engine room of IoT, IT and the Digital World – the ICT sector,” IoT Now, November 18, 2021 <https://www.iot-now.com/2021/11/18/115636-welcome-to-the-engine-room-of-iot-it-and-the-digital-world-the-ict-sector/>

## Special Reading Suggestions

- Janet Ooi and Joo Ann Beha, “Testing Beyond the 5 Cs of IoT,” EE Times Asia, November 26, 2021 <https://www.eetasia.com/testing-beyond-the-5-cs-of-iot/>
- Boone Ashworth, “3G Service Is Going Away Next Year. Here's What That Means [Many devices within the internet of things—home alarm systems, wearable medical equipment, fire alarms, even ankle monitors—still operate on 3G networks.]” Wired, November 18, 2021 <https://www.wired.com/story/3g-service-sunset-what-it-means/>
- Jason Salas, “A Healthier You: continuous glucose monitoring via IoT means no more finger-pricking,” KUAM, November 18, 2021 <https://www.kuam.com/story/45228463/a-healthier-you-continuous-glucose-monitoring-via-iot-means-no-more-fingerpricking>
- Matt Hatton, “Moving ‘up the stack’ in IoT is easier said than done for CSPs [Communications Service Providers].” IoT Business News, November 17, 2021 <https://iotbusinessnews.com/2021/11/17/58457-moving-up-the-stack-in-iot-is-easier-said-than-done-for-csps/>
- Shelby Hiter, “Industrial Internet of Things (IIoT) Use Cases 2021,” Datamation, November 16, 2021 <https://www.datamation.com/trends/industrial-iiot-use-cases/>
- Eleftheria Kouri “Omdia Analyst: Metaverse Leaders Should Heed Security, Privacy,” IoT World Today, November 10, 2021 <https://www.iotworldtoday.com/2021/11/10/omdia-analyst-metaverse-leaders-should-heed-security-privacy/>
- Michael Chui, Mark Collins and Mark Patel, “IoT value set to accelerate through 2030: Where and how to capture it,” McKinsey Report (90 pages), November 9, 2021 <https://www.mckinsey.com/business-functions/mckinsey-digital/our-insights/iot-value-set-to-accelerate-through-2030-where-and-how-to-capture-it>

## Selected IoT Perspectives

### The Internet of Things and Sports

- Liam Killingstad, “IoT Could Have an Outsized Impact on Sports and Commerce,” Front Office Sports, November 19, 2021 <https://frontofficesports.com/iot-could-have-outsized-impact-on-sports-and-commerce/>
- ResearchandMarkets.com press release, “Global Sports Technology Markets, 2021-2028 by Technology (Devices, Smart Stadium), Sports (Basketball, Soccer, Tennis, Golf),” Business Wire, November 18, 2021 <https://www.businesswire.com/news/home/20211118005684/en/Global-Sports-Technology-Markets-2021-2028-by-Technology-Devices-Smart-Stadium-Sports-Basketball-Soccer-Tennis-Golf---Leading-Players-are-Cisco-Systems-IBM-and-SAP---ResearchAndMarkets.com>
- Simon IoT, “How IoT Has Helped Power The Olympics Games,” IoT for All, November 11, 2021 <https://www.iotforall.com/how-iot-is-involved-in-the-olympics>
- Ivan Muts, “How IoT Can Help Businesses in the Sports and Fitness Industry,” IoT for All, November 10, 2021 <https://www.iotforall.com/how-iot-can-help-businesses-in-the-sports-and-fitness-industry>
- Thomas Alomes, “Sports Tech 101 – Part one: Stadiums and venues,” Sports Pro Media, July 21, 2021 [https://www.sportspromedia.com/insights/opinions/guest\\_blog/sports-technology-experts-guide-stadiums-venues-iot-5g-facial-recognition/](https://www.sportspromedia.com/insights/opinions/guest_blog/sports-technology-experts-guide-stadiums-venues-iot-5g-facial-recognition/)
- MIT Technology Review in association with Alibaba Cloud, “Smart Sports,” MIT Technology Review, January 29, 2021 <https://www.technologyreview.com/2021/01/29/1017028/smart-sports/>

**Research background info (sample):** Georgia Tech, “Create an Internet of People and Things (IoPT) within Bobby Dodd stadium to enhance the game-day experiences and safety of 55,000 Georgia Tech football fans.,” Stadium-IoPT, Georgia Tech Vertically Integrated Projects, 2019 to Present, <https://www.vip.gatech.edu/teams/vp3>; Henghao Li; Pedro H. R. Pinto; Deepa Phanish; Randal T. Abler; and Edward J. Coyle, “Good Vibrations: An IoPT Testbed for Infotainment in a Football Stadium,” IEEEExplore, online October 13, 2020 <https://ieeexplore.ieee.org/document/9221062>; Jianjun Luo, Wenchao Gao, and Zhong Lin Wang, “The Triboelectric Nanogenerator as an Innovative Technology toward Intelligent Sports,” Advanced Materials, online March 24, 2021 <https://doi.org/10.1002/adma.202004178> Kai Zhan, “Sports and health big data system based on 5G network and Internet of Things system,” Microprocessors and Microsystems, Volume 80, February 2021, <https://www.sciencedirect.com/science/article/abs/pii/S0141933120305226>



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