



## 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 – as of 04/30/2021. 787 entries:

[https://devcdait.gatech.edu/sites/default/files/ovid-19\\_iot\\_january\\_2020\\_april\\_30\\_2021.pdf](https://devcdait.gatech.edu/sites/default/files/ovid-19_iot_january_2020_april_30_2021.pdf)

## GOVERNANCE & THE INTERNET OF THINGS

Notice of 04/29/2021 Multistakeholder Process on Promoting Software Component Transparency Meeting by the National Telecommunications and Information Administration (NTIA) <https://www.ntia.doc.gov/federal-register-notice/2021/notice-04292021-multistakeholder-process-promoting-software-component>

Chris Nerney, “5G research by DARPA (Defense Advanced Projects Agency) will lead to commercial applications,” Network World, April 26, 2021 <https://www.networkworld.com/article/3616154/5g-research-by-darpa-will-lead-to-commercial-applications.html>

Chris Balcik, “What’s on the federal IT roadmap for 2021?” Insights (Samsung), April 19, 2021 <https://insights.samsung.com/2021/04/19/w-hats-on-the-federal-it-roadmap-for-2021/>

NSC Press Release, “The US Department of Defense (DOD) Issues First Requests for Prototype Proposal Through the National Spectrum Consortium (NSC)’s Spectrum Forward Other Transaction Agreement (OTA),” April 15, 2021 [https://www.pnnewswire.com/news-releases/dod-issues-first-requests-for-prototype-proposal-through-the-national-spectrum-consortium-spectrum-forward-ota-301269991.html?e=eml\\_clearitem](https://www.pnnewswire.com/news-releases/dod-issues-first-requests-for-prototype-proposal-through-the-national-spectrum-consortium-spectrum-forward-ota-301269991.html?e=eml_clearitem)

Laura Stanton, “The Federal Mobility Group: Signals of Progress,” Great Government Through Technology Blog, U.S. General Services Administration (GSA), April 1, 2021 <https://gsablogs.gsa.gov/technology/2021/04/01/the-federal-mobility-group-signals-of-progress/>

# GT CDAIT

## Biweekly IoT News Digest (04/21 – 2)

### IoT News and Market Reports

(Second Half of April 2021)

- Selected IoT-related announcements and featured activities/topics in the second half of April 2021 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\\_new\\_s\\_filings\\_april\\_2021\\_second\\_half.pdf](https://devcdait.gatech.edu/sites/default/files/iot_new_s_filings_april_2021_second_half.pdf)
- Sample list of IoT-related market reports published in the second half of April 2021 gathered by CDAIT– 90 entries – See: [https://devcdait.gatech.edu/sites/default/files/iot\\_market\\_reports\\_april\\_2021\\_second\\_half.pdf](https://devcdait.gatech.edu/sites/default/files/iot_market_reports_april_2021_second_half.pdf)

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

- Dr. Emily Gruber along with other renowned experts was interviewed by Daniel Kolitz for a Gizmodo article on “**Could the World Ever Run Entirely on Renewable Energy?**,” Earther, April 26, 2021 [https://earther.gizmodo.com/could-the-world-ever-run-entirely-on-renewable-energy-1846619089?mc\\_cid=dcbdfca304&mc\\_eid=cf0b0e87e1](https://earther.gizmodo.com/could-the-world-ever-run-entirely-on-renewable-energy-1846619089?mc_cid=dcbdfca304&mc_eid=cf0b0e87e1)
- Longfei Wang and Zhong Lin Wang, “**Advances in piezotronic transistors and piezotronics**,” Nanoday, Volume 37, April 2021, 101108 <https://doi.org/10.1016/j.nantod.2021.101108>
- Gibson I., Rosen D., Stucker B., Khorasani M. (2021) “**Direct Digital Manufacturing**.” In: Additive Manufacturing Technologies. Springer, Cham. [https://doi.org/10.1007/978-3-030-56127-7\\_18](https://doi.org/10.1007/978-3-030-56127-7_18)
- Yali Ren, “**Optimizing Predictive Maintenance with Machine Learning for Reliability Improvement**,” ASME. ASME J. Risk Uncertainty Part B. published online January 7, 2021 doi: <https://doi.org/10.1115/1.4049525>

**OF NOTE:** Haiyang Yang, Jingjing Ma, and Amitava Chattopadhyay, “**How Xiaomi Became an Internet-of-Things Powerhouse**,” Harvard Business Review, April 26, 2021 <https://hbr.org/2021/04/how-xiaomi-became-an-internet-of-things-powerhouse>

New research from Transforma Insights, 6GWorld and InterDigital “**IoT Technology Will Save More Than Eight Times the Energy it Consumes by 2030**,” IoT Business News, April 20, <https://iotbusinessnews.com/2021/04/20/80213-iot-technology-will-save-more-than-eight-times-the-energy-it-consumes-by-2030/>

### Special Reading Suggestions

- Knud Lasse Lueth, “**The 7 Most Demanded IoT System Integration Services**,” IoT Analytics, April 28, 2021 <https://iot-analytics.com/7-most-demanded-iot-system-integration-services/>
- EC-Council [International Council of E-Commerce Consultants], “**Why is IoT on the rise? How is IoT security critical to a company’s success?**” EC-Council Blog, April 28, 2021 <https://blog.eccouncil.org/why-is-iot-on-the-rise-how-is-iot-security-critical-to-a-companys-success/>
- Apoorva Komarraju, “**50 most popular data science questions asked in interviews 2021**,” Data Analytics Insight, April 22, 2021 <https://www.analyticsinsight.net/50-most-popular-data-science-questions-asked-in-interviews-2021/>
- Sandhya Shekhar, “**Industry 4.0: The changing dynamics of industry-academia relationships**,” The Hindu Business Line, April 21, 2021 <https://bloncampus.thehindubusinessline.com/engineering/industry-40-the-changing-dynamics-of-industry-academia-relationships/article34374800.ecce>
- Sudeep Srivastava, “**Emerging IoT Technologies You Need To Know In 2021**,” Appinventiv, April 16, 2021 <https://appinventiv.com/blog/emerging-iot-technologies-in-coming-years/>
- Gary Audin “**Your Internet of Things (IoT) Business Model**,” IoT Evolution, April 16, 2021 <https://www.iotevolutionworld.com/iot/articles/448581-internet-things-iot-business-model.htm>

### Selected IoT Perspectives Internet of Things Platforms

- Rich Castagna, “**AI [Artificial Intelligence] Adds Smarts to IoT Platforms**,” IoT World Today, April 26, 2021 <https://www.iotworldtoday.com/2021/04/26/ai-adds-smarts-to-iot-platforms/>
- Zornitsa Dimitrova, “**Key Components of an IoT Platform and How to Choose One**,” IoT for All, April 19, 2021 <https://www.iotforall.com/iot-platforms-key-components-and-how-to-choose-one>
- Alexis Leibbrandt, “**6 Factors to Consider While Choosing an IoT Platform**,” IoT Central, April 13, 2021 <https://www.iotcentral.io/blog/6-factors-to-consider-while-choosing-an-iot-platform>
- Mary Shacklett, “**How to choose an IoT platform when there are so many options**,” Tech Republic, February 9, 2021 <https://www.techrepublic.com/article/how-to-choose-an-iot-platform-when-there-are-so-many-options/>
- Priya Dialani, “**Ten Best Industrial IoT (IIoT) Platforms for 2021**,” Analytics Insight, January 15, 2021 <https://www.analyticsinsight.net/ten-best-industrial-iiot-platforms-for-2021/>
- Gartner, “**Industrial IoT Platforms Reviews and Ratings**,” no date <https://www.gartner.com/reviews/market/industrial-iiot-platforms>

**Research background info:** Leonardo Babun, Kyle Denney, Z. Berkay Celik, Patrick McDaniel, and A. SelcukUluagac, “**A survey on IoT platforms: Communication, security, and privacy perspectives**,” Computer Networks, Volume 192, June 19, 2021, 108040 <https://doi.org/10.1016/j.comnet.2021.108040>; Sotirios Brotsis, Konstantinos Limniotis, Gueltoum Bendiab, Nicholas Kolokotronis, and Stavros Shialeas, “**On the suitability of blockchain platforms for IoT applications: Architectures, security, privacy, and performance**,” Computer Networks, Volume 191, May 22, 2021, 108005 <https://doi.org/10.1016/j.comnet.2021.108005>; Pauli, T., Fieft, E. & Matzner, M., “**Digital Industrial Platforms**,” Business and Information Systems Engineering 63, 181–190 (2021), available on line, January 12, 2021 <https://doi.org/10.1007/s12599-020-00681-w>