



August 2020 Highlights

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 08/31/20 – 426 entries:

https://cdait.gatech.edu/sites/default/files/covid-19_iot_january_august_31_2020.pdf

LEGISLATION/REGULATION & THE INTERNET OF THINGS

“THE RIGHT TO REPAIR”

See work from U.S. Public Interest Research Group (U.S. PIRG):

“As it became clear that Congress wasn’t going to take this issue up, states across the country started moving forward. From Hawaii to Nebraska, Massachusetts to Washington, Right to Repair legislation has attracted bipartisan support as a common-sense reform /.../ It’s time we expanded this policy to all electronic products.”

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<https://uspig.org/feature/usp/right-repair>

See also: James B. Meigs, “You Don’t Really Own Your Own Gadgets”, Commentary Magazine, September 2020

<https://www.commentarymagazine.com/articles/james-meigs/you-dont-really-own-your-own-gadgets/>

“As Internet-connected devices proliferate in our lives, so will questions about who is really in control /.../ Right to Repair advocates have won some key battles in protecting consumers. In recent years, the U.S. Library of Congress, which regulates copyright, has somewhat narrowed the DMCA [Digital Millennium Copyright Act]’s broad sweep. For example, it is now legal to fix your laptop or “jailbreak” your smartphone so that it can run unapproved apps” (J. Meigs).

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Biweekly IoT News Digest (08/20 – 2)

IoT News and Market Reports

(Second Half of August 2020)

- Selected **IoT-related announcements and featured activities/topics in the second half of August 2020** gathered by CDAIT from governments; agencies; consortia; alliances; associations; standards, research and other similar groups around the world – 11 entries – See: https://cdait.gatech.edu/sites/default/files/iot_news_filing_s_august_2020_second_half.pdf
- Sample list of **IoT-related market reports published in the second half of August 2020** gathered by CDAIT– 60 entries – See: https://cdait.gatech.edu/sites/default/files/iot_market_reports_august_2020_second_half.pdf

Georgia Tech IoT-related Info/Research Noticed by CDAIT

- Yisroel Mirsky, Tomer Golom, and Yuval Elovici, “**Lightweight collaborative anomaly detection for the IoT using blockchain,**” Journal of Parallel and Distributed Computing, Volume 145, November 2020, Pages 75-97, available online June 30, 2020, <https://doi.org/10.1016/j.jpdc.2020.06.008> - Yisroel Mirsky is a Postdoctoral Fellow in the Institute for Information Security & Privacy at Georgia Tech
- Shuv Dey, J. Michael Brown and Yogendra Joshi, “**Packaging Environmental Sensors for Monitoring Urban-Microclimates,**” J. Eng. Sustain. Bldgs. Cities. Aug 2020, 1(3): 031001 (9 pages), Paper No: JESBC-20-1004 <https://doi.org/10.1115/1.4047422> Shuv Dev and Yogendra Joshi are with the Woodruff School of Mechanical Engineering at Georgia Tech

“**A FIRST OF ITS KIND**”: launch of the **Partnership for Inclusive Innovation**: Susie Ivy, “**Georgia Tech to Lead Technology Coalition to Advance Inclusive Innovation Across the State,**” Georgia Tech News Center, August 17, 2020 https://news.gatech.edu/2020/08/14/georgia-tech-lead-technology-coalition-advance-inclusive-innovation-across-state?utm_campaign=daily-digest&utm_medium=email&utm_source=dd-article:14595%7C2020-08-18

Special Reading Suggestions

Articles

- Sebastian Ungureanu, “**When Will IoT Become a National Security Issue,**” Readwrite, August 12, 2020, <https://readwrite.com/2020/08/12/when-will-iot-become-a-national-security-issue/>
- Scott Hershberger, “**New Pen-and-Ink Method Draws Health Sensors Directly on Skin,**” Scientific American, August 18, 2020 <https://www.scientificamerican.com/article/new-pen-and-ink-method-draws-health-sensors-directly-on-skin/>

Books

- Bernard Marr, **The Intelligence Revolution: Transforming Your Business with AI,** 1st Edition, Kogan Page, August 25, 2020 (224 pages) <https://www.bernardmarr.com/default.asp?contentID=2061>
- The Internet of Things: Offering Massive Societal Opportunities - Two new open access books present three years of research on contemporary issues on the Internet of Things** – Source (Patrick O’Brien, August 11, 2020): <https://irishtechnews.ie/the-internet-of-things-offering-opportunity/> -- Digital versions can be downloaded here: “**The Cloud-to-Thing Continuum,**” <https://link.springer.com/book/10.1007/978-3-030-41110-7> and “**Managing Distributed Cloud Applications and Infrastructure,**” <https://link.springer.com/book/10.1007/978-3-030-39863-7>

Selected IoT Perspectives

Cellular IoT Options and Status

- Noa Ouziel, “**Tackling the Challenges of Cellular IoT,**” Security Boulevard, August 23, 2020 <https://securityboulevard.com/2020/08/tackling-the-challenges-of-cellular-iot/>
- Nicholas Nhede, “**COVID-19 to halve global cellular IoT connections,**” Smart Energy International, July 28, 2020 <https://www.smart-energy.com/industry-sectors/iot/covid-19-to-halve-global-cellular-iot-connections/>
- Yitaek Hwang, “**Cellular IoT Explained - NB-IoT vs. LTE-M vs. 5G and More,**” IoT for All, June 26, 2020 <https://www.iotforall.com/cellular-iot-explained-nb-iot-vs-lte-m/>
- James Blackman, “**A 2019 surge, a 2020 wobble, a 2025 boom – NB-IoT and LTE-M on track, says Ericsson,**” Enterprise IoT Insights, June 16, 2020 <https://enterpriseiotinsights.com/20200616/channels/news/nb-iot-and-lte-m-on-track-says-ericsson>
- Kristen Gloss, “**Breaking down cellular IoT connectivity options,**” IoT Agenda, April 30, 2020 <https://internetofthingsagenda.techtarget.com/feature/Break-down-cellular-IoT-connectivity-options>
- Christian Kuhlins, Bela Rathonyi, Ali Zaidi, and Marie Hogan, “**Cellular Networks for Massive IoT,**” Ericsson White Papers, January 2020 https://www.ericsson.com/48ff1f/assets/local/reports-papers/white-papers/massive_iot_whitepaper.pdf

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