



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 10/15/2021 – 1007 entries:

https://devcdait.gatech.edu/sites/default/files/ccvid-19_iot_january_2020_october_15_2021.pdf

GOVERNANCE & THE INTERNET OF THINGS

BSA the Software Alliance, "BSA Releases Priorities to Strengthen Trust, Safeguard Digital Transformation," BSA, October 13, 2021 <https://www.bsa.org/news-events/news/bsa-releases-priorities-to-strengthen-trust-safeguard-digital-transformation>

Mahesh Singarapu, "Rules as code can be the new model for governance," [India] Mint, September 22, 2021 <https://www.livemint.com/money/personal-finance/rules-as-code-can-be-the-new-model-for-governance-11632248473812.html>

Tyson Echentile and Rich Lansdowne, "Bringing IoT and Analytics to the Forefront of Disaster Preparedness and Response," StateTech, October 7, 2021 <https://statetechmagazine.com/article/2021/10/bringing-iot-and-analytics-forefront-disaster-preparedness-and-response>

Erie Wilcklund, "How Can the Internet of Things Integrate With Telehealth, Remote Patient Monitoring?" *The Federal Communications Commission wants to start a conversation on how to manage and regulate connectivity for the Internet of Things, including meeting the needs of telehealth and remote patient monitoring platforms and mHealth devices.* mHealth Intelligence, October 4, 2021 <https://mhealthintelligence.com/news/how-can-the-internet-of-things-integrate-with-telehealth-remote-patient-monitoring>

Rachel Ramirez and Clare Duffy, "Want to help the climate crisis? Don't toss your old iPhone, fix it." "experts worry that with the coming 'internet of things' revolution — where everything from watches to refrigerators are becoming consumer electronic devices — the amount of waste could tick back up". CNN, October 3, 2021 <https://www.cnn.com/2021/10/03/tech/right-to-repair-climate-environmental-impact/index.html>

US Food & Drug Administration (FDA), "New Era of Smarter Food Safety," FDA, As of October 1, 2021 <https://www.fda.gov/food/new-era-smarter-food-safety>

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Biweekly IoT News Digest (10/21 – 1)

IoT News and Market Reports

(First Half of October 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_october_2021_first_half.pdf
- Sample list of IoT-related market reports gathered by CDAIT– 85 entries – See: https://devcdait.gatech.edu/sites/default/files/iot_market_report_s_october_2021_first_half.pdf

Georgia Tech IoT-related Info/Research Noticed by CDAIT

- Wanrong Zhang, "Privacy-preserving Statistical Tools: Differential Privacy and Beyond," in Partial Fulfillment of the Requirements for the Degree of Doctor of Philosophy in the GT College of Engineering H. Milton Stewart School of Industrial and Systems Engineering, May 2021 <https://smartech.gatech.edu/handle/1853/64789>
- GT School of Electrical and Computer Engineering, "Wireless E-Tattoo for Pneumonia Aims to Transform Patient Monitoring," September 24, 2021 <https://www.ece.gatech.edu/news/651074/wireless-e-tattoo-pneumonia-aims-transform-patient-monitoring>
- Yan Wang, Xiangyu Liu, Yawei Wang, Hao Wang, He Wang, Steven L. Zhang, Tiancong Zhao, Minyi Xu, and Zhong Lin Wang, "Flexible Seaweed-Like Triboelectric Nanogenerator as a Wave Energy Harvester Powering Marine Internet of Things," ACS Nano 2021, Sept. 216, 2021 <https://doi.org/10.1021/acsnano.1c05127>

OF NOTE: -- Aaron Boyd, "CISA Finalizes Guidance for Securing Federal Networks for Remote Users," Nextgov, October 8, 2021 <https://www.nextgov.com/cybersecurity/2021/10/cisa-finalizes-guidance-securing-federal-networks-remote-users/185975/>; Adam Browser, Alan Fishel and Jeffrey Rummel, "FCC Seeks Public Comment on the Current and Future Regulation of the "Internet of Things," JD Supra, October 4, 2021 <https://www.jdsupra.com/legalnews/fcc-seeks-public-comment-on-the-current-3722640/>

Special Reading Suggestions

- Philip Wegner, "The Top 10 IoT Use Cases," IoT Analytics, October 13, 2021 <https://iot-analytics.com/top-10-iot-use-cases/>
- Parag Khanna, "The future of 'smart living' will be a test of how smart we really are," Fast Company, October 12, 2021 <https://www.fastcompany.com/90684865/the-future-of-smart-living-will-be-a-test-of-how-smart-we-really-are>
- Leif Nissen, "Why IoT should become the 'internet of transparency'," IoT Agenda, October 6, 2021 <https://internetofthingsagenda.techtarget.com/post/Why-IoT-should-become-the-internet-of-transparency>
- Veronica Combs, "IoT device managers are sticking with 4G with only 9% planning a move to 5G," TechRepublic, October 5, 2021 <https://www.techrepublic.com/article/iot-device-managers-are-sticking-with-4g-with-only-9-planning-a-move-to-5g/>
- Bernard Marr, "The 5 Biggest Data Science Trends In 2022," Forbes, October 4, 2021 <https://www.forbes.com/sites/bernardmarr/2021/10/04/the-5-biggest-data-science-trends-in-2022/?sh=4ded8a0840d3>

Selected IoT Perspectives The Internet of Things and Fleet Management

"IoT is likely to play an even bigger role in fleet management with time and has become common in large and small fleet deployments" (Hologram)

- Juniper Callie, "How IoT Solutions Increase Fleet Management Efficacy?," Medium, September 29, 2021 <https://medium.com/@juniperalli05/how-iot-solutions-increase-fleet-management-efficacy-9adc672be758>
- Allison Pittaway, "IoT - the "Internet of benefits" for fleet managers and drivers," Fleet Europe, September 28, 2021 <https://www.fleeturope.com/en/connected/europe/features/iot-internet-benefits-fleet-managers-and-drivers?%a=API07&%t%5B0%5D=Internet%20of%20Things&%t%5B1%5D=Efficiency&%t%5B2%5D=connected%20car&curl=1>
- Kamal Rupareliya, "A Quick Guide On How IoT Is Revolutionizing The Fleet Management Industry," Global Trade Magazine, September 15, 2021, <https://www.globaltrademag.com/a-quick-guide-on-how-iot-is-revolutionizing-the-fleet-management-industry/>
- Cody Lirette, "The Role of IoT in Fleet Management," Orbcomm website, July 29, 2021 <https://blog.orbcomm.com/the-role-of-iot-in-fleet-management/>
- Verizon Connect, "How telematics and the IoT work together to improve fleet management," Verizon Connect website, June 29, 2021 <https://www.verizonconnect.com/resources/article/telematics-iot-fleet-management/>
- Manisha Sahu, "IoT in Fleet Management - Role and Applications," Analytics Steps, June 27, 2021 <https://www.analyticssteps.com/blogs/iot-fleet-management-role-and-applications>
- Hologram, "Revolutionizing the Fleet Management Industry with IoT," IoT for All, April 27, 2021 <https://www.iotforall.com/revolutionizing-the-fleet-management-industry-with-iot>
- Keshavdas M, "How Does IoT Assist In Fleet Management?" Fleetroot website, January 7, 2021 <https://fleetroot.com/blog/how-does-iot-assist-in-fleet-management/>

Research background info (sample): D. Goustouridis, A. Sideris, I. Sdrolas, G. Loizos, N.-Alexander Tatlas, and S. M. Potirakis "IntelligentLogger: A Heavy-Duty Vehicles Fleet Management System Based on IoT and Smart Prediction Techniques," World Academy of Science, Engineering and Technology, International Journal of Mechanical and Industrial Engineering Vol:15, No:8, 2021 <https://publications.waset.org/10012185/intelligentlogger-a-heavy-duty-vehicles-fleet-management-system-based-on-iot-and-smart-prediction-techniques>; S. Maitra, V. Yanambaka, A. Abdelgawad and K. Yelamarthi, "Securing a Vehicle Fleet Management Through Blockchain and Internet of Things," in 2020 IEEE International Symposium on Smart Electronic Systems (SES) (Formerly iNiS), Chennai, India, 2020 pp. 151-154. doi: 10.1109/iSES50453.2020.00042 <https://www.computer.org/csdl/proceedings-article/ises/2020/047800a151/1txTLy0tMFw>; and United Nations Development Programme (UNDP), "Driving innovation in fleet management through Internet of Things," UNDP website, June 24, 2020 <https://www.undp.org/news/driving-innovation-fleet-management-through-internet-things>