



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 09/30/2021 – 983 entries:

https://devcdait.gatech.edu/sites/default/files/ccvid-19_iot_january_2020_september_30_2021.pdf

GOVERNANCE & THE INTERNET OF THINGS

Kristen Bertch and Michael Borgia, “NIST Starts Consumer Labeling Program for IoT Cybersecurity,” JD Supra, September 27, 2021

<https://www.jdsupra.com/legalnews/nist-starts-consumer-labeling-program-5165883/>

EW Staff, “Democratizing IoT,”

Electronics Weekly, September 22, 2021
<https://www.electronicsexpress.com/news/democratizing-the-iot-2021-09/>

Foo Yun Chee, “The EU plans to legislate for common phone charger despite Apple grumbles,” Reuters, September 21, 2021

<https://www.reuters.com/technology/eu-plans-legislate-common-phone-charger-despite-apple-grumbles-2021-09-21/>

Billy Mitchell, “Defense industry must buy into open standards for JADC2 [Department of Defense’s Internet of Things-like concept of operations known as Joint All Domain Command and Control (JADC2)] to work, executives say,” FedScoop, September 21, 2021
<https://www.fedscoop.com/defense-industry-must-buy-into-open-standards-for-jadc2-to-work-executives-say/>

Jennifer Johnson, Matthew DelNero & Andrew Longhi, “IoT Update: FCC to Open Inquiry into Spectrum Needs for Growth of the Internet of Things,” Covington – Global Policy Watch, September 17, 2021

https://www.globalpolicywatch.com/2021/09/17/iot-update-fcc-to-open-inquiry-into-spectrum-needs-for-growth-of-the-internet-of-things/?utm_source=Mondaq&utm_medium=syndication&utm_campaign=LinkedIn-integration1

Luca Bertuzzi, “EU chief announces cybersecurity law for connected devices,” Euractiv, September 16, 2021
<https://www.euractiv.com/section/cybersecurity/news/eu-chief-announces-cybersecurity-law-for-connected-devices/>

GT CDAIT

Biweekly IoT News Digest (09/21 – 2)

Georgia Tech IoT-related

IoT News and Market Reports

(Second Half of September 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_september_2021_second_half.pdf
- Sample list of IoT-related market reports gathered by CDAIT– 81 entries – See:
https://devcdait.gatech.edu/sites/default/files/iot_market_report_s_september_2021_second_half.pdf

Info/Research Noticed by CDAIT

- Tohid Shekari, “Methods to Attack and Secure the Power Grids and Energy Markets” Dissertation in Partial Fulfillment of the Requirements for the Degree of Doctor of Philosophy in the GT School of Electrical and Computer Engineering, August 2021 <https://smartech.gatech.edu/handle/1853/65077>
- Georgia Tech ISyE 21 LeeAnn and Walter Muller Distinguished Lecture, Guest Speaker: Dr. S. Jack Hu, UGA Senior Vice President for Academic Affairs & Provost, “Industrial Internet of Things and Smart Personalized Manufacturing,” September 23, 2021 <https://www.isyc.gatech.edu/news-events/events/calendar/day/11284>
- Karim Farhat and Milton Mueller, “Energy Infrastructure and Industrial Data: Between Global Data Policies and an Evolving IoT [Industrial Internet of Things] Environment,” GT Energy Policy and Innovation Center (EPICenter), 2021 <https://smartech.gatech.edu/handle/1853/64939>

OF NOTE: -- Townsend L. Bourne, “Moving to Zero Trust – CISA [Cybersecurity and Infrastructure Security Agency] and OMB [Office of Management and Budget] Seek Comments [by October 1, 2021] on Zero Trust Publications and Cloud Security Technical Reference Architecture under Cybersecurity Executive Order,” National Law Review, September 15, 2021
<https://www.natlawreview.com/article/moving-to-zero-trust-cisa-and-omb-seek-comments-zero-trust-publications-and-cloud>

Special Reading Suggestions

- Philip Wegner, “IoT integrators: The secret backbone of the IoT – Insights from 700+ companies providing professional IoT services,” IoT Analytics, September 28, 2021 <https://iot-analytics.com/iot-integrators-secret-backbone-iot/>
- Mohan Subramaniam, “The 4 Tiers of Digital Transformation,” Harvard Business Review, September 21, 2021
<https://hbr.org/2021/09/the-4-tiers-of-digital-transformation>
- IoT Business News editorial, “US Businesses Show IoT Investment Resilience, Despite Pandemic,” IoT Business News, September 20, 2021 <https://iotbusinessnews.com/2021/09/20/65939-us-businesses-show-iot-investment-resilience-despite-pandemic/>

Selected IoT Perspectives

Low-Code and No-Code in IoT Application Development

The emergence of “citizen developers”, i.e., users with little or no coding experience developing software solutions

- VentureBeat/Transform Technology (online) Summit, “The Low-Code/No-Code Summit: Enabling Enterprise Agility,” October 13, 2021 <https://events.venturebeat.com/transformsummits/>
- Ruth Taylor, “Why Low Code for IoT?,” MassTLC, September 13, 2021 <https://www.masstlc.org/why-low-code-for-iot/>
- Knud Kegel, “No-code success: An IoT platform provider’s view on citizen-developers,” ITPProPortal, September 6, 2021
<https://www.itpproportal.com/features/no-code-success-an-iot-platform-providers-view-on-citizen-developers/>
- Sudhanva Shetty, “A Codeless Future: The Rise of Low-Code and No-Code Development Platforms,” TransIn, August 28, 2021
<https://transin.in/a-codeless-future-the-rise-of-low-code-and-no-code-development-platforms>
- Salvatore Salamone, “4 Benefits of Using Low Code in Industrial Manufacturing” [“Low-code and IoT go hand-in hand”], RT Insights, August 10, 2021 <https://www.rtinights.com/4-benefits-of-using-low-code-in-industrial-manufacturing/>
- Rob Rastovich (podcast), “No-Code IoT and Future Business Models,” IoT for All, August 3, 2021
<https://www.iotforall.com/podcasts/e127-no-code-iot-future-business-models>
- Joe Devanesan, “Taking the low-code/no-code route to developing IoT apps,” Tech_HQ, May 27, 2021
<https://techhq.com/2021/05/taking-the-low-code-no-code-route-to-developing-iot-apps/>
- Linda Rosencrance, “Using Low-Code and No-Code in IoT App Development,” IoT World Today, May 17, 2021,
<https://www.iotworldtoday.com/2021/05/17/using-low-code-and-no-code-in-iot-app-development/>
- Mitul Makadia, “Is Low-Code No-Code the Future of Software Development?” Customer Think, March 25, 2021
<https://customerthink.com/is-low-code-no-code-the-future-of-software-development/>
- Bartosz Hetmanski, “The Parking App: Learn how to leverage IoT with low code tools,” IoT Tech News, June 15, 2020
<https://iottechnews.com/news/2020/jun/15/the-parking-app-learn-how-to-leverage-iot-with-low-code-tools/>

Research background info (sample): Irene Weber, “Low-code from frontend to backend: Connecting conversational user interfaces to backend services via a low-code IoT platform,” CUP21 3rd Conference on Conversational User Interfaces, July 27–29, 2021, Bilbao (online), Spain <https://dl.acm.org/doi/10.1145/3469595.3469632>; Seiger, R., Kühn, R., Korzetz, M. et al. “HoloFlows: modelling of processes for the Internet of Things in mixed reality,” Softw Syst Model (2021). <https://doi.org/10.1007/s10270-020-00859-6>; Felicien Ithirwe, Davide Di Ruscio, Silvia Mazzini, Pierluigi Pierini, and Alfonso Pierantonio, “Low-code Engineering for Internet of things: A state of research.” MODELS ’20: Proceedings of the 23rd ACM/IEEE International Conference on Model Driven Engineering Languages and Systems: Companion Proceedings. October 2020 <https://arxiv.org/abs/2009.01876>; Silviu-George Pantelimon; Tudor Rogoianu; Andreea Brailleanu; Valeriu-Daniel Stanciu; and Ciprian Dobre, “Towards a Seamless Integration of IoT Devices with IoT Platforms Using a Low-Code Approach,” IEEE Xplore, online July 22, 2019 <https://ieeexplore.ieee.org/document/8767313>;