



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 02/28/2021. 700 entries:

https://devcdait.gatech.edu/sites/default/files/covid-19_02_january_2020_february_28_2021.pdf

GLOBAL TECHNOLOGY GOVERNANCE & THE INTERNET OF THINGS

United Nations Conference on Trade and Development (UNCTAD), “Technology and Innovation Report 2021,” February 25, 2021 <https://unctad.org/page/technology-and-innovation-report-2021>

Frank Tang, “China unveils plan to transform manufacturing sector with internet of things,” SCMP, February 18, 2021 <https://www.scmp.com/economy/china-economy/article/3122204/china-unveils-plan-transform-manufacturing-sector-internet>

Sofia Baruzzi, “China’s Industrial Standards for the Internet of Things: What the Draft Guidelines Say,” China Briefing, February 18, 2021 <https://www.china-briefing.com/news/china-internet-of-things-industrial-standards-draft-guidelines-released-5-major-standards/>

James Kim, Brian Long, and Jessica Megahie Sawyer, “NIST [National Institute of Standards and Technology] on Internet of Things (IoT),” JDSupra, February 17, 2021 <https://www.jdsupra.com/legalnews/nist-guidance-on-internet-of-things-iot-2825269/>

Gibson Dunn, “New Federal Law for IoT Cybersecurity Requires the Development of Standards and Guidelines Throughout 2021,” Gibson Dunn website, February 17, 2021 <https://www.gibsondunn.com/new-federal-law-for-iot-cybersecurity-requires-the-development-of-standards-and-guidelines-throughout-2021/>

The Department of Commerce is promulgating regulations to implement provisions of Executive Order 13873, “Executive Order on Securing the Information and Communications Technology and Services Supply Chain (May 15, 2019),” The Federal Register, January 19, 2021 <https://www.federalregister.gov/documents/2021/01/19/2021-01234/securing-the-information-and-communications-technology-and-services-supply-chain>

GT CDAIT

Biweekly IoT News Digest (02/21 – 2)

Georgia Tech IoT-related IoT News and Market Reports Info/Research Noticed by CDAIT

(Second Half of February 2021)

- Selected IoT-related announcements and featured activities/topics in the second half of February 2021 gathered by CDAIT from governments; agencies; consortia; alliances; associations; standards, research and other similar groups around the world – 13 entries – See: https://devcdait.gatech.edu/sites/default/files/iot_new_s_filings_february_2021_second_half.pdf
- Sample list of IoT-related market reports published in the second half of February 2021 gathered by CDAIT– 70 entries – See: https://devcdait.gatech.edu/sites/default/files/iot_market_reports_february_2021_second_half.pdf

- Gary McMurray, “Robots in Unstructured Environments,” GTMI Lunch and Learn Lecture, February 8, 2021 https://www.youtube.com/watch?mc_cid=f292af423a&mc_cid=d62af4cb0&v=Tm17Z3EfA4c&feature=youtu.be
- Biswadeep Chakraborty, Dinil Mon Divakaran, Ido Nevat, Gareth W. Peters, and Mohan Gurusamy, “Cost-aware Feature Selection for IoT Device Classification,” IEEE Internet of Things Journal (early access), published on January 13, 2021 <https://ieeexplore.ieee.org/document/9321464>
- Eid, A., Hester, J.G.D. & Tentzeris, M.M. “5G as a wireless power grid,” Sci Rep 11, 636 (2021). <https://doi.org/10.1038/s41598-020-79500-x> (published online January 12, 2021)
- Apostolos Georgiadis, Ana Collado, and Manos M. Tentzeris, “Energy Harvesting: Technologies, Systems, and Challenges,” (Book), Cambridge University Press, January 21, 2021 <https://www.cambridge.org/core/books/energy-harvesting/799A4C849444196DDC0E128AEE767E63#fndtn-information>

OF NOTE: Francisco (Paco) Maroto’s advice on how to “Find the Best IoT Education” LinkedIn post (Madrid, Spain), February 7, 2021 https://www.linkedin.com/pulse/worth-waste-your-time-money-iot-education-francisco-maroto?trk=public_profile_article_view and author’s blog <https://pacomaroto.wordpress.com/2021/02/06/worth-it-waste-your-time-and-money-in-iot-education/>

Special Reading Suggestions

Articles

- Satyajit Sinha, “The Rise of the IoT semiconductor,” IoT Analytics, February 16, 2021 <https://iot-analytics.com/rise-of-iot-semiconductor/>
- Mark Lapedus, “Breaking The 2nm Barrier - New interconnects and processes will be required to reach the next process nodes,” Semiconductor Engineering, February 16, 2021 <https://semiengineering.com/breaking-the-2nm-barrier/>
- Abigail Harper, “How Cryptocurrency Can Be Used for IoT,” IoT for All, February 19, 2021 <https://www.iotforall.com/how-cryptocurrency-can-be-used-for-iot>

Selected IoT Perspectives

The Internet of Things and Supply Chain

- Association for Supply Chain Management (ASCM) press release, “Over Half of Companies Lack Clear Picture of Their own Supply Chain, According to New Report from ASCM and the Economist Intelligence Unit,” PRNewswire, February 23, 2021 <https://www.prnewswire.com/news-releases/over-half-of-companies-lack-clear-picture-of-their-own-supply-chain-according-to-new-report-from-ascm-and-the-economist-intelligence-unit-301233340.html>
- Stephen DeAngelis, “The Pandemic has Bolstered Supply Chain Transformation Efforts,” Enterra Solutions, February 23, 2021 <https://www.enterrasolutions.com/blog/the-pandemic-has-bolstered-supply-chain-transformation-efforts/>
- Faststream Technologies, “Smart Supply Chain using IoT,” Medium, February 23, 2021 <https://faststreamtechnologies.medium.com/smart-supply-chain-using-iot-d798313a2188>
- Jack Vaughn “Supply Chain Analytics and IoT Loom Large in Wake of 2020 Disruption,” IoT World Today, January 18, 2021 <https://www.iotworldtoday.com/2021/01/18/supply-chain-analytics-and-iot-loom-large-in-wake-of-2020-disruption/>
- Jeffrey Beaudoin (US Department of Defense), “Global Supply Chain Trends and Emerging Technologies in the Internet of Things,” National Defense Transportation Association (NDTA), September 15, 2020 <https://www.ndtahq.com/global-supply-chain-trends-and-emerging-technologies-in-the-internet-of-things/>

Research background info: A. Qun Song, Yuhao Chen, Yan Zhong, Kun Lan, Simon James Fong, and B Rui Tang, “A Supply-chain System Framework Based on Internet of Things Using Blockchain Technology,” ACM Transactions on Internet Technology, January 2021, Article No.: 13, <https://doi.org/10.1145/3409798>; Zhigang Zhou, Yanyan Liu, Hao Yu, and Qi Chen, “Logistics supply chain information collaboration based on FPGA [Fiedl-Programmable Gate Array] and internet of things system,” Microprocessors and Microsystems, Volume 80, February 2021, 103589 <https://www.sciencedirect.com/science/article/abs/pii/S0141933120307390>; Rejeb, Abderahman; Simske, Steven; Rejeb, Karim; Treiblmaier, Horst; & Zailani, Suhaiza. (December 2020), “Internet of Things research in supply chain management and logistics: A bibliometric analysis,” Volume 12, 100318 <https://www.sciencedirect.com/science/article/pii/S2542660520301499?via%3Dihub>; He, L., Xue, M., Gu, B., “Internet-of-things enabled supply chain planning and coordination with big data services: Certain theoretic implications,” Journal of Management Science and Engineering, Volume 5, Issue 1, March 2020 <https://www.sciencedirect.com/science/article/pii/S2096232020300172#>