

July 2020 Highlights

GT CDAIT Biweekly IoT News Digest (07/20-1)

Georgia Tech IoT-related Info/Research Noticed by CDAIT

COVID-19

See some perspectives gathered by CDAIT on the use of IoT technologies in preventing and monitoring **COVID-19** like infectious diseases & impact on IoT – as of 07/15/20 - 348 entries:

See Khalida Sarwari, "We know companies are collecting and sharing our data. Is there anything we can do about it?", News at Norheastern, July 1, 2020 (related research at Norheastern University (incl. Mon(IoT)r Lab), University of Calfifornia at Irvine, University of Iowa and University of Southern California):

/01/they-want-to-keep-your-personal-information-safe-on-the-internet/

GLOBAL STABILITY &

See Robert A. Manning, "Emerging Technologies: New Challenges to Global Stability," Atlantic Council, Scowcroft Center for Strategy and Security, May 2020 (25 pages)

IoT News and Market Reports

(First Half of July 2020)

- Selected IoT-related announcements and featured activities/topics in the first half of July 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_july_2020_first_half.pdf
- Sample list of IoT-related market reports published in the first half of July 2020 gathered by CDAIT-55 entries
 - https://cdait.gatech.edu/sites/default/files/iot_market_rep orts_july_2020_first_half.pdf

Special Reading Suggestions

Articles

- Mahmoud Parto, Christopher Saldana and Thomas Kurfess, "A Novel Three-Layer IoT Architecture for Shared, Private, Scalable, and Real-time Machine Learning from Ubiquitous Cyber-Physical Systems," Procedia Manufacturing, Volume 48, 2020, Pages 959-967, available online June 23, 2020
 - https://www.sciencedirect.com/science/article/pii/S2351978920315870 -- The three authors are with the George W. Woodruff School of Mechanical Engineering at Georgia Tech
- Robert Rosenberger, "Hostile design and the materiality of surveillance," in: Wiltse, H (ed.) Relating to Things: Design, Technology and the Artificial, London: Bloomsbury published in May 2020 https://www.bloomsbury.com/uk/relating-to-things-9781350124257/ -- Robert Rosenberger is an associate professor in the School of Public Policy at Georgia Tech
- Danny Yuxing Huang, Noah J Apthorpe, Frank Li, Gunes Acar, and Nick Feamster, "IoT Inspector: Crowdsourcing Labeled Network Traffic from Smart Home Devices at Scale," Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies, June 2020, Article No.: 46 https://doi.org/10.1145/3397333 -- Frank Li is an nooming Assistant Professor (Fall 2020) in the School of Electrical and Computer Engineering at Georgia Tech
- Ding Xianfeng (Cloud Scientists at Alibaba), "How Will the Internet of Everything Benefit Humanity?" Medium, June 30, 2020 original posting on Alibaba Cloud website (April 29, 2020) https://medium.com/@Alibaba_Cloud/how-will-the-internet-of-everythingbenefit-humanity-5ee84de3698d
- Massimo Russo and Gary Wang, "Orchestrating the Value in IoT Platform-Based Business Models," Boston Consulting Group, June 29, 2020 https://www.bcg.com/publications/2020/value-in-iot-platform-based-business-models.aspx

- · Vicki McLeod, "You and the Internet of Things: A Practical Guide to Understanding and Integrating the IoT into Your Daily Life," paperback, 144 pages, April 2020, Self-Counsel Press https://www.self-counsel.com/you-and-the-internet-of-things.html
- Aleksander Poniewierski, "Speed: No Limits in the Digital Era," see related article by Brian Buntz, "Digital Business Agility Should Be Company Priority -- While digital transformation is an overused phrase, companies should focus on bringing agility to operations says an EY consultant," IoT for All, March 9, 2020 https://www.iotworldtoday.com/2020/03/09/digital-business-agility-should-becompany-priority/ Selected IoT Perspectives

The Internet of Things and Wireless Charging

- Sanjay Sharma, "China is the New Hub for Wireless Charging Technology," IP Watchdog, July 6, 2020, "With a growing number of users and increased demand for consumer electronics, smart-wearables, electric vehicles, Internet-of-Things (IoT) and Internet-of-Everything (IoET), the need for powering such devices and for hassle free charging has to keep pace with this rapid growth.," https://www.ipwatchdog.com/2020/07/06/china-new-hub-wireless-chargingtechnology/id=123032/
- Mike Clark, "NFC Forum spec lets consumers use NFC phones to wirelessly charge small devices," NFC World, May 6, 2020 https://www.nfcw.com/2020/05/06/366432/nfc-forum-spec-lets-consumers-usenfc-phones-to-wirelessly-charge-small-devices/
- Hrishikesh Kadam, "What Does the Future of Wireless Charging Technology Look Like?" Electronics Cooling, February 27, 20 20 https://www.electronics-cooling.com/2020/02/what-does-the-future-ofwireless-charging-technology-look-like/
- Lucas Mearian, "FCC approves wireless charging tech for IoT devices, Walmart to adopt it -- Ossia's Forever Tracker technology would charge multiple IoT devices," Computer World, October 3, 2019 https://www.computerworld.com/article/3442967/fcc-approves-wireless-charging-tech-for-iot-deviceswalmart-to-adopt-it.html

