February 2021 Highlights

GT CDAIT
Biweekly IoT News Digest (06/21 – 1)

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 06/15/2021 - 834 entries:
https://devcdait.gatech.edu/sites/default/files/ovid-19_iot_january_2020_june_15_2021.pdf

GOVERNANCE & THE INTERNET OF THINGS

European Union Commission releases initial findings of consumer Internet of Things sector inquiry, EC, June 9, 2021
https://ec.europa.eu/competition-policy/antitrust/sector-inquiries/consumer-internet-things_en

Marc Champion, **"The Future of Power Is Transcontinental, Submarine Supergrids** - *China wants to lead the way in creating a global energy internet,*" **Bloomberg Business, June 9, 2021**
https://www.bloomberg.com/news/features/2021-06-09/future-of-world-energy-lies-in-uhvdc-transmission-lines

Jonathan Tercasio, **"These bills would add new responsibilities to agencies, contemplate relocations," Federal News Network, June 4, 2021**
https://federalnewsnetwork.com/congress/2021/06/these-bills-would-add-new-responsibilities-to-agencies-contemplate-relocations/

Lauren C. Williams, **"Army rolls back short-lived IoT telework policy," FCW, June 3, 2021**
https://fcw.com/articles/2021/06/03/army-iot-crackdown-reverse.aspx

Peggy Smedley, **"Enabling Equitable Digital Literacy," Connected World [It's all about IoT] Blog, June 1, 2021**
https://connectedworld.com/enabling-equitable-digital-literacy/

Banini Prince, Kumasi Hive, Crave Servane, Diop Babacar, Dupont Corentin, Eskandari Mojitaba; Mutesi Irene, Pham Congduc, Rahim Abdur, and Sokeng Wilma, **"WaziHub: Empowering Open Source and Affordable IoT Technologies in Africa,"[Research funded by the European Commission] Zenodo, May 28, 2021**
https://zenodo.org/record/4835730#.YLZCV4WSlPY - **Book (44 pages) can be downloaded here:**
https://www.waziup.io/docs/WaziHubMagazine1.pdf

IoT News and Market Reports

(First Half of June 2021)

- Selected **IoT-related announcements and featured activities/topics in the first half of June 2021** 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_june_2021_first_half.pdf

- Sample list of **IoT-related market reports published in the first half of June 2021** gathered by CDAIT– 75 entries – See: https://devcdait.gatech.edu/sites/default/files/iot_market_reports_june_2021_first_half.pdf

Georgia Tech IoT-related Info/Research Noticed by CDAIT

- David Terraso, **"The Indelible Value of People and Relationships in Manufacturing,"** [about the work with Steeelcase by the GT Factory Information Systems (FIS) Center and the Institute for People and Technology (IPaT) in the area of the Industrial Internet of Things], GT Research, June 2, 2021 https://research.gatech.edu/indelible-value-people-and-relationships-manufacturing?mc_cid=404c3b63ea&mc_eid=1189dcbf5b

- Joy Arulraj, Abhijit Chatterjee, Alexandros Daglis, Ashutosh Dhekne, and Umakishore Ramachandran:, **"eCloud: A Vision for the Evolution of the Edge-Cloud Continuum,"** Computer 54(5): 24-33 (2021), available May 10, 2021 https://ieeexplore.ieee.org/abstract/document/9426992/authors#authors

- Francesca Spigarelli and John R. McIntyre (editors), **"The New Chinese Dream** - *Industrial Transition in the Post-Pandemic Era,*" [book], Palgrave Macmiillan, 2021, 148 pages https://doi.org/10.1007/978-3-030-69812-6

OF NOTE: Georgia Tech's Center for Advanced Communications Policy (CACP) is currently researching (a) which communities are being served by the Atlanta BeltLine, and (b) how it can be used as an emergency management asset. Related info can be found at: https://cdait.gatech.edu/sites/default/files/2021-02/Bridges%20of%20the%20Beltline%20Research%20Brief.pdf. Anyone who has visited the Atlanta Beltline aged 18 or older can take the survey online at http://bit.ly/ATLBeltLine - More info: Ms. Salimah LaForce salimah@cacp.gatech.edu

Special Reading Suggestions

- Leonardo Vieira, **"The Future of Industry 4.0,"** RFID Journal, June 13, 2021 https://www.rfidjournal.com/the-future-of-industry-4-0

- Jonathan Knudsen, **"Smart cities are coming: getting ahead by reducing software vulnerabilities,"** Information Age, June 9, 2021 https://www.information-age.com/smart-cities-are-coming-getting-ahead-by-reducing-software-vulnerabilities-123495541/

- Asif Razzaq, **"Top IoT Books To Read in 2021,"** Marktechpost, June 5, 2021 https://www.marktechpost.com/2021/06/05/top-iot-books-to-read-in-2021/

- Nadav Avni, **"Digital Devices Are the Backbone of Every Organisation - Are You Managing Them Properly?"** Technative, June 2, 2021 https://technative.io/digital-devices-are-the-backbone-of-every-organisation-are-you-managing-them-properly/

- Sophia Trivett, **"Amazon launches Sidewalk: Wants to become an Internet of Things (IoT) network provider,"** NextTV, June 2, 2021 https://nextvme.com/amazon-launches-sidewalk-wants-to-become-an-internet-of-things-iot-network-provider-companies/

- Explica.co, **"Advantages and disadvantages of the internet of things: towards a global brain that will connect everything,"** Explica.co, May 30, 2021 https://www.explica.co/advantages-and-disadvantages-of-the-internet-of-things-towards-a-global-brain-that-will-connect-everything.html

Selected IoT Perspectives
Internet of Things and Telehealth/Telemedicine/Telecare

- Technology Review in association with Lumen, **"Transforming Health Care at the Edge,"** MIT Technology Review, June 9, 2021 https://www.technologyreview.com/2021/06/10/1026038/transforming-health-care-at-the-edge/

- Fortune Business Insights press release, **"Internet of things (IoT) in Healthcare Market to Exhibit Astonishing 25.9% CAGR by 2028; Stoked by Increasing Demand for Medical Wearable Devices Worldwide,"** Globe Newswire, June 7, 2021 https://www.globenewswire.com/news-release/2021/06/07/2242429/0/en/Internet-of-things-IoT-in-Healthcare-Market-to-Exhibit-Astonishing-25-9-CAGR-by-2028-Stoked-by-Increasing-Demand-for-Medical-Wearable-Devices-Worldwide-says-Fortune-Business-Insigh.html

- National Institute of Standards and Technology (NIST), **"SP 1800-30 (Draft)- Securing Telehealth Remote Patient Monitoring Ecosystem (2nd Draft),"** Comments were due on June 7, 2021 https://csrc.nist.gov/publications/detail/sp/1800-30/draft

- Carsten Brockmann, **" How we can secure the future of healthcare and telemedicine,"** Security Boulevard, May 14, 2021 https://securityboulevard.com/2021/05/how-we-can-secure-the-future-of-healthcare-and-telemedicine/

- Nora Winkens, **"IoT: The Pulse Of Healthcare,"** IoT for All, April 23, 2021 https://www.iotforall.com/iot-the-pulse-of-healthcare

Research background info: Lloyd E. Emokpae, Roland N. Emokpae, Wassila Lalouan, and Mohamed Younis, **"Smart Multimodal Telehealth-IoT System for COVID-19 Patients,"** Published in: IEEE Pervasive Computing (Volume: 20, Issue: 2, April-June 1 2021) https://ieeexplore.ieee.org/abstract/document/9403389?casa_token=KcyqoaWSrwAAAAAA:stWGquJZx-0E4i6NCm4DPSf583WYKG7dZVRHZPBxtONofLi_4yul9c85loTDfafTIVcwjxaE Bhaskar, S., Banach, M., Weissert, R., Mittoo, S., Nurtazina, A., eds. (2021). **"Telemedicine during and beyond COVID-19,"** Lausanne: Frontiers Media SA. doi: 10.3389/978-2-88966-739-0 https://www.researchgate.net/profile/Sonu-Bhaskar/publication/351412185_Telemedicine_during_and_beyond_COVID-19/links/60963b19a6fdccaebd160d42/Telemedicine-during-and-beyond-COVID-19.pdf; Daniel Carter et al. **"Smart Internet of Things-enabled Mobile-based Health Monitoring Systems and Medical Big Data in COVID-19 Telemedicine,"** American Journal of Medical Research, Volume 8, Number 1, 2021 https://www.ceeol.com/search/article-detail?id=944792; Federal Communications Commission (FCC) website, **"Telehealth, Telemedicine, and Telecare: What's What?,"** n.d., https://www.fcc.gov/general/telehealth-telemedicine-and-telecare-whats-what

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