GT CDAIT
Biweekly IoT News Digest (06/20 – 1)

June 2020 Highlights

COVID-19 & THE INTERNET OF THINGS

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 06/15/20 – 305 entries:

https://cdait.gatech.edu/sites/default/files/covid-19_iot_january_june_15_2020.pdf

COVID-19, DIGITAL DIVIDE & IoT

See current international perspectives:

Staff Writer, "Australia must urgently skill-up for Internet of Things era, says IoT Alliance Australia," IoT Hub, June 9, 2020 https://www.iothub.com.au/news/australia-must-urgently-skill-up-for-internet-of-things-era-says-iot-alliance-australia-549045

Nadia Hewett, "Four ways African governments can bridge digital skills gap needed for post-Covid economic recovery," Mail & Guardian, June 9, 2020 https://mg.co.za/coronavirus-essentials/2020-06-09-four-ways-african-governments-can-bridge-digital-skills-gap-needed-for-post-covid-economic-recovery/

Cath Everett, "Coronavirus: How to cope with the digital skills divide," [article draws heavily on the UK experience], Computer Weekly, May 1, 2020 https://www.computerweekly.com/feature/Coronavirus-How-to-cope-with-the-digital-skills-divide

Staff Writer, "Digital skills gap in Europe: Training people for the future," Open Access Government, March 6, 2020 https://www.openaccessgovernment.org/digital-skills-gap-in-europe-training/83494/

IoT News and Market Reports
(First Half of June 2020)

- Selected **IoT-related announcements and featured activities/topics in the first half of June 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_filings_june_2020_first_half.pdf

- Sample list of **IoT-related market reports published in the first half of June 2020** gathered by CDAIT– 54 entries – See: https://cdait.gatech.edu/sites/default/files/iot_market_reports_june_2020_first_half.pdf

Special Reading Suggestions

Articles

- Yanitsa Boyadzhieva, "**IoT faces short-term Covid-19 hit – GSMA Intelligence**," [Mobile Report authors Sylwia Kechiche and Alex Gharibian 'emphasized **enterprises which lag in IoT adoption could face insolvency or even bankruptcy**'] World Live, June 8, 2020 https://www.mobileworldlive.com/featured-content/top-three/iot-faces-short-term-covid-19-hit-gsma-intelligence/

- SDChain Alliance (Based on ISO IoT Six-Domain Model standards) "**Biweekly Update - 2020.06.12**" https://medium.com/sdchainen/biweekly-update-2020-06-12-f74901a41d26

Books

- John Davies, and Carolina Fortuna (Editors), "**The Internet of Things: From Data to Insight,**" ISBN: 978-1-119-54526-2, June 2020, 240 pages https://www.wiley.com/en-us/The+Internet+of+Things%3A+From+Data+to+Insight-p-9781119545262

- Gianluca Cornetta, Abdellah Touhafi, and Gabriel-Miro Muntean (Editors), "**Social, Legal, and Ethical Implications of IoT, Cloud, and Edge Computing Technologies,**" ISBN13: 9781799838173, June 2020, 333 pages https://www.igi-global.com/book/social-legal-ethical-implications-iot/244250

Georgia Tech IoT-related Info/Research Noticed by CDAIT

- **Technology and Disability Policy Highlights (TDPH)** – May 2020 (Wireless Inclusive RERC/GT Center for Advanced Communications Policy [CACP] – Georgia Tech Ivan Allen College of Liberal Arts) – https://cdait.gatech.edu/sites/default/files/technology_and_disability_policy_highlights_-_may_2020_0.pdf

- Gregory Abowd, **"The Internet of Materials: A Vision for Computational Materials,"** Published in: IEEE Pervasive Computing (Volume: 19 , Issue: 2 , April-June 1 2020), date of publication May 15, 2020, https://ieeexplore.ieee.org/document/9094291 Dr. Gregory D. Abowd is Georgia tech Regents' Professor and J.Z. Liang Chair in the School of Interactive Computing at Georgia Tech

- Jingwen Tian, Xiangyu Chen, and Zhong Lin Wang, **"Environmental energy harvesting based on triboelectric nanogenerators,"** Published 30 March 2020, Nanotechnology, Volume 31, Number 24 https://iopscience.iop.org/article/10.1088/1361-6528/ab793e/meta Dr. Zhong Lin Wang is Hightower Chair in Materials Science and Engineering, Regents' Professor, Adjunct Professor Chemistry and Biochemistry, Adjunct Professor Electrical and Computer Engineering at Georgia Tech

- Ramyad Hadidi, Jiashen Cao, Michael S. Ryoo, and Hyesoon Kim, **"Towards Collaborative Inferencing of Deep Neural Networks on Internet of Things Devices,"** IEEE Internet of Things Journal (Early Access), date of publication: February 6, 2020, DOI: 10.1109/JIOT.2020.2972000, https://ieeexplore.ieee.org/abstract/document/8985265/authors#authors Mr. Ramyad Hadidi (PhD candidate), Mr. Jiashen Cao (MS student) and Dr. Hyesoon Kim (Associate Professor) are with the School of Computer Science at Georgia Tech

Selected IoT Perspectives

The Growing Importance of the Internet of Medical Things (IoMT)

Benedette Cuffari, "An Overview of Sensors for the Internet of Medical Things," Azo Sensors, June 4, 2020 https://www.azosensors.com/article.aspx?ArticleID=1968

Guest Editorial, "Internet of Medical Things for Health Engineering," IEEE Journal of Biomedical and Health Informatics, vol. 24, no. 6, pp. 1539-1540, June 2020, doi: 10.1109/JBHI.2020.2988734 https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9108346 and https://www.embs.org/jbhi/articles/special-issue-on-internet-of-medical-things-for-health-engineering/

Madhukar Jangir, "IoMT Devices Will Revolutionize HealthTech in 2020," RT Insights, May 25, 2020 https://www.rtinsights.com/iomt-devices-will-revolutionize-healthtech-in-2020/

Chris Parsons, "Has COVID-19 Created a Tipping Point in the MedTech Industry?," MD+DI, May 13, 2020 https://www.mddionline.com/has-covid-19-created-tipping-point-medtech-industry-0

See also: Xiao Liu, "The Internet of Bodies is here. This is how it could change our lives," World Economic Forum, June 4, 2020 https://www.weforum.org/agenda/2020/06/internet-of-bodies-covid19-recovery-governance-health-data/ --- Note: Telemedicine, Telehealth and Telecare according to the FCC: https://www.fcc.gov/general/telehealth-telemedicine-and-telecare-whats-what