



May 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 05/31/20 – 268 entries:

https://cdait.gatech.edu/sites/default/files/covid-19_iot_january_may_31_2020.pdf

COVID-19, DIGITAL DIVIDE & IoT

See: Amanda Bergson-Shilcock, “COVID-19 shines a spotlight on digital skills: Updates and key questions for advocates and policymakers,” National Skills Coalition, April 21, 2020
<https://nationalskillscoalition.org/news/blog/covid-19-shines-a-spotlight-on-digital-skills-updates-and-key-questions-for-advocates-and-policymakers/>

→ See specific exploration of digital divide and IoT skills including possible agenda for future IoT public policy and research: Alexander J. A. M. van Deursen and Karen Mossberger, “Any Thing for Anyone? A New Digital Divide in Internet-of-Things Skills,” Wiley, February 13, 2018
<https://onlinelibrary.wiley.com/doi/epdf/10.1002/poi.3.171>

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Biweekly IoT News Digest (05/20 – 2)

IoT News and Market Reports

(Second Half of May 2020)

- Selected IoT-related announcements and featured activities/topics in the second half of May 2020 gathered by CDAIT from governments; agencies; consortia; alliances; associations; standards, research and other similar groups around the world – 10 entries – See: https://cdait.gatech.edu/sites/default/files/iot_news_filing_s_may_2020_second_half.pdf
- Sample list of IoT-related market reports published in the second half of May 2020 gathered by CDAIT– 58 entries – See: https://cdait.gatech.edu/sites/default/files/iot_market_reports_may_2020_second_half.pdf

Special Reading Suggestions

Articles

- Shim, Jung P.; Sharda, Ramesh; French, Aaron M.; Syler, Rhonda A.; & Patten, Karen P. (2020), “The Internet of Things: Multi-faceted Research Perspectives,” Communications of the Association for Information Systems, 46 (21), 511- 536, <https://doi.org/10.17705/1CAIS.04621>
- Nathan Glover, IoT May [2020] Recap, DevOpstar, May 25, 2020, <https://devopstar.com/newsletter/2020/05/25>

Books

- Mahmood, Zaigham (Ed.), “Connected Vehicles in the Internet of Things - Concepts, Technologies and Frameworks for the IoV,” Springer, 2020
https://www.springer.com/us/book/9783030361662?gclid=EAIAIqobChM16uLgfc96QIVypyzCh0i7giOEAYASABEgJicfD_BwE
- Alexis Wichowski, “The Information Trade - How Big Tech Conquers Countries, Challenges Our Rights, and Transforms Our World,” Harper Collins, 2020 [Chapter 6: The All-Knowing Internet of Things]
<https://www.harpercollins.com/9780062888983/the-information-trade/>
- Global Status of the Physical Internet — A Vision for Sustainable, Secure, Resilient Supply Chains - Interview with Dr. Benoit Montreuil, Professor, School of Industrial and Systems Engineering; Director, Physical Internet Center; Director, Supply Chain & Logistics Institute, Georgia Tech, [Interviewed by Eric Beckwith, Founder and CEO, Freightera], Freightera blog, April 27, 2020 <https://www.freightera.com/blog/physical-internet-a-vision-for-sustainable-secure-resilient-supply-chains/>

Georgia Tech IoT-related Info/Research Noticed by CDAIT

- Ling Liu, “Internet Technology Outlook: From Communication to Storage and Cognitive Computing,” ACM Transactions on Internet Technology (TOIT) 20, 1, Article 1 (January 2020), 4 pages. <https://doi.org/10.1145/3378661> [Dr. Ling Liu is professor, School of Computer Science, College of Computing at Georgia Tech and Editor-in-Chief of TOIT since January 2019]
- Neda Mohammadi, Ambuz Vimal and John E. Taylor (School of Civil & Environmental Engineering, Georgia Tech), “Knowledge Discovery in Smart City Digital Twins,” Proceedings of the 53rd Hawaii International Conference on System Sciences, 2020, issued on January 7, 2020 <http://hdl.handle.net/10125/63943> and <https://scholarspace.manoa.hawaii.edu/bitstream/10125/63943/0165.pdf> [This study was supported in part by a research grant from the Georgia Tech Center for the Development and Application of Internet of Things Technologies (CDAIT)].
- Yogesh Kumar Meena, Xing-Dong Yang, Markus Löchtfeld, Matt Carnie, Niels Henze, Steve Hodges, Matt Jones, Nivedita Arora, and Gregory D. Abowd, “SelfSustainableCHI: Self-Powered Sustainable Interfaces and Interactions,” CHI EA '20: Extended Abstracts of the 2020 CHI Conference on Human Factors in Computing Systems, April 25-30, 2020, Honolulu, HI, pages 1–7, ACM ISBN 978-1-4503-6819-3/20/04, <https://doi.org/10.1145/3334480.3375167> and <https://dl.acm.org/doi/pdf/10.1145/3334480.3375167> [Ms. Nivedita Arora is a Ph.D. student in the Ubiquitous Computing Lab at Georgia Tech and Dr. Gregory D. Abowd is Georgia tech Regents’ Professor and J.Z. Liang Chair in the School of Interactive Computing at Georgia Tech]

Selected IoT Perspectives

“If the Internet defined the first two decades of this century, then the Internet of Things (IoT) will be a gamechanger for the next two decades and beyond”

Greg Cordis in “Four steps to harness IoT for trusted supplier and customer relationships,” KPMG, May 14, 2020
<https://home.kpmg/xx/en/home/insights/2020/05/network-of-trust-around-iot.html>

Mannu Mathew, “Internet of Things : Progress for the next Millennium,” ELE Times, May 21, 2020
<https://www.electimes.com/internet-of-things-progress-for-the-next-millennium>

Bo Hagler, “How The Internet Of Things Is Transforming 21st-Century Manufacturing,” Forbes, April 17, 2020
<https://www.forbes.com/sites/forbestechcouncil/2020/04/17/how-the-internet-of-things-is-transforming-21st-century-manufacturing/#a722ae15c875>

Sean Mallon, “IoT Is The Most Important Development Of The 21st Century,” Smart Data Collective, October 29, 2018 <https://www.smartdatacollective.com/iot-most-important-development-of-21st-century/>

Alain Louchez, “The Internet of Things is a Secular Transformation,” RFID Journal, May 4, 2015
https://cdait.gatech.edu/sites/default/files/the_internet_of_things_is_a_secular_transformation_-_iot_journal.pdf

Georgia Tech Center for the Development and Application of Internet of Things Technologies

www.cdait.gatech.edu

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