

July 2020 Highlights

GT CDAIT Biweekly IoT News Digest (07/20 - 2)

Georgia Tech IoT-related Info/Research Noticed by CDAIT Seun Sangodoyin, Frank Werner, Baki B. Yilmaz, Chia-Lin Cheng, Elvan M. Ugurlu, Nader Sehatbakhsh, Milos Prvulovic, and Alenka Zajić,

"Remote Monitoring and Propagation Modeling of EM Side-

Added to IEEE Xplore: 08 July 2020, DOI:

10.23919/EuCAP48036.2020.9135387,

Aerospace Engineering at Georgia Tech.

School of Public Policy at Georgia Tech.

Allen College of Liberal Arts on July 16, 2020:

Computer Science at Georgia Tech.

Channel Signals for IoT Device Security," - Published in: 2020 14th

https://ieeexplore.ieee.org/abstract/document/9135387 - The authors

Maria Grammatopoulou, Aris Kanellopoulos, Kyriakos G.Vamvoudakis,

are with the Schools of Electrical and Computer Engineering; and of

Nathan Lau, "A Multi-step and Resilient Predictive Q-learning

Algorithm for IoT with Human Operators in the Loop: A Case Study in Water Supply Networks," arXiv:2006.03899v1 [cs.LG], June

6, 2020, https://arxiv.org/abs/2006.03899 -- A. Kanellopoulos and

K. G. Vamvoudakis are with the Daniel Guggenheim School of

• Marilyn A. Brown, "Geospatial Dimensions of Energy Inefficiency

and Equity," June 11th presentation for the National Academies' Geographical Sciences Committee -- article published by the GT Ivan

https://www.iac.gatech.edu/news-events/stories/2020/7/marilynbrown-presents-national-academies-webinar-ethics-justice-geographical-

sciences/636982. The author is Interim Chair and Regents' Professor,

European Conference on Antennas and Propagation (EuCAP), Date

COVID-19

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 07/31/20 -385 entries:

U.S. CONGRESS &

Activity in the second quarter: Rep. Richard Hudson (R-NC-8) introduced H.R. 6939

Advancing IoT Manufacturing Act (5/19/2020)

https://www.congress.gov/bill/116th-congress/house-bill/6939?s=1&r=83

PRIVACY & THE INTERNET OF THINGS

Fifth annual PrivacyCon organized by the Federal Trade Commission (FTC) on July 21, 2020

Session 3: The Internet of Things

Daniel J. Dubois, Northeastern University, *Information Exposure* From Consumer IoT Devices: A
Multidimensional, Network-Informed Measurement Approach

Pardis Emami-Naeini, Carnegie Mellon University, <u>Ask the</u> <u>Experts: What Should Be on an</u> IoT Privacy and Security Label?

Danny Yuxing Huang, New York University Tandon School of Engineering, <u>IoT Inspector:</u> Crowdsourcing Labeled Network Traffic from SmartHome Devices

Technologist, Federal Trade Technology Research and Investigation

IoT News and Market Reports

(Second Half of July 2020)

- Selected IoT-related announcements and featured activities/topics in the second half of July 2020 gathered by CDAIT from governments; agencies; consortia; alliances; associations; standards, research and other similar groups around the world – 12 entries – See: https://cdait.gatech.edu/sites/default/files/iot_news_filing s_july_2020_second_half.pdf
- Sample list of IoT-related market reports published in the second half of July 2020 gathered by CDAIT- 63 https://cdait.gatech.edu/sites/default/files/iot_market_rep orts_july_2020_second_half.pdf

Special Reading Suggestions

Articles

- Raullen Chai, "Confidential Computing Will Revolutionize The Internet Of Things," IB Times, July 30, 2020 https://www.ibtimes.com/confidential-computing-will-revolutionize-internet-things-3019376
- Thorsten Stremlau, "The Benefits of Trust in the IoT Era," Pipeline, July 2020, Volume 16, Issue 10 https://www.pipelinepub.com/IoT/trust-in-IoT

Books

- Alfonso Velosa, Dale Kutnick, Benoit Lheureux, and Roger Williams (analysts), "Hype Cycle for the Internet of Things, 2020," Gartner Research, July 15, 2020 https://www.gartner.com/en/documents/3987602/hype-cycle-for-the-internet-of-things-2020
- Leonard T. Nuara, "Internet of Things 2020: Everything is Connected," Practicing Law Institute (PLI), Course Handbook, June 2020, ISBN: 978-1-4024-3662-8, 750 pages, https://www.pli.edu/programs/internet-of-things/chb?book=BK11489

Selected IoT Perspectives

The Internet of Things and the customer service redefinition

"Because of this latency (of legacy call-center models), it's no wonder that 44 percent of Americans would prefer to scrub a toilet than talk with customer service." (*)

- Priya Dialanai Sharma "How the Internet of Things is Changing Customer Service?" Analytics Insight, July 1, 2020, https://www.analyticsinsight.net/internet-things-changing-customer-service/;
- Jia Jen Low, "Is digital transformation being 'rushed' amid COVID-19 pressure? [About 9 out of ten companies indicated customer service as their main focus,]" Techq, May 29, 2020 https://techhq.com/2020/05/are-dx-projects-during-covid-19-going-to-end-up-rushed-and-botched/
- Sukand Ramachandran, Derek Hayes, Nicholas Clark, and Hrvoje Jenkač, "Redefining Customer Service for the Future," Boston Consulting Group, May 28, 2020 https://www.bcg.com/enus/publications/2020/redefining-customer-service-for-the-future.aspx
- Sebastian Bott, "IoT Customer Service Strategies for Internet of Things Innovators," B2X Blog, August 28, 2019 https://blog.b2x.com/iot-customer-service

(*) Elaina Ransford, "Why IoT Will Enable a New, Data-Driven Era of Customer Service," Help Shift, June 7, 2019 https://www.helpshift.com/blog/why-iot-in-customer-service-is-massive/ -- Source of survey (44 percent etc.): https://www.helpshift.com/press/helpshift-survey-finds-44-percent-of-americans-would-rather-scrub-a-toilet-than-call-customer-support/

Georgia Center for the Development and Application **Tech** \(\) of Internet of Things Technologies