GT CDAIT
Biweekly IoT News Digest (02/21 – 1)

February 2021 Highlights

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 02/15/2021 - 682 entries:

https://devcdait.gatech.edu/sites/default/files/covid-19_iot_january_2020_february_15_2021.pdf

GLOBAL TECHNOLOGY GOVERNANCE & THE INTERNET OF THINGS

Maggie Miller, "Lawmakers introduce bipartisan bill [Internet of Things (IoT) Readiness Act] to allow for increased use of internet-connected devices," The Hill, February 11, 2021 https://thehill.com/policy/cybersecurity/538508-lawmakers-introduce-legislation-to-allow-for-increased-use-of-internet

ETSI (European Telecommunications Standards Institute)'s report on comparing worldwide COVID-19 contact-tracing systems, ETSI, February 2, 2021 https://agilitypr.news/ETSI-unveils-its-Report-comparing-worldw-14989 - Europe for Privacy-Preserving Pandemic Protection (E4P) comparison report pdf: https://www.etsi.org/deliver/etsi_gr/E4P/001_099/002/01.01.01_60/gr_E4P002v010101p.pdf

Peter B. Danilov, "Smart Cities May Constitute Security Risk, Says PST [Norwegian Police Security Services]," High North News, February 5, 2021 https://www.highnorthnews.com/en/smart-cities-may-constitute-security-risk-says-pst

Valentina Pop, Sha Hua and Daniel Michaels, "From Lightbulbs to 5G, China Battles West for Control of Vital Technology Standards - *Whoever has control of industrial norms for telecommunications, electricity transmission and artificial intelligence is in a position to dominate*" The Wall Street Journal, February 7, 2021 https://www.wsj.com/articles/from-lightbulbs-to-5g-china-battles-west-for-control-of-vital-technology-standards-11612722698

IoT News and Market Reports

(First Half of February 2021)

- Selected **IoT-related announcements and featured activities/topics in the first half of February 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_february_2021_first_half.pdf
- Sample list of **IoT-related market reports published in the first half of February 2021** gathered by CDAIT– 75 entries – See: https://devcdait.gatech.edu/sites/default/files/iot_market_reports_february_2021_first_half.pdf

Georgia Tech IoT-related Info/Research Noticed by CDAIT

- Niklas Tritschler, Andrew Dugenske and Thomas Kurfess, "**An automated edge computing based conditionhealth monitoring system: with an application onrolling element bearings**," Journal of Manufacturing Science and Engineering, online January 20, 2021 https://doi.org/10.1115/1.4049845 - At the time of the research, the authors were associated with Georgia Tech
- Umakishore Ramachandran, Harshit Gupta, Adam Hall, Enrique Saurez and Zhuangdi Xu, "**A Case for Elevating the Edge to be a Peer of the Cloud,**" GetMobile: Mobile Computing and Communications, January 2021 https://doi.org/10.1145/3447853.3447859 - At the time of the research, the authors were associated with Georgia Tech.
- Salimah Laforce, Scott Gilliland, and Jeff Evans,"**Bridges of the Beltline – IoT Research in Progress Brief**," Center for Advanced Communications Policy (CACP), February 2021, https://cdait.gatech.edu/sites/default/files/2021-02/Bridges%20of%20the%20Beltline%20Research%20Brief.pdf – At the time of the research the authors were associated with Georgia Tech

OF NOTE: Tan Zhan Yun, " **Cover Story: Moving beyond awareness to adoption of IoT,**" The Edge Malaysia, February 8, 2021 https://www.theedgemarkets.com/article/cover-story-moving-beyond-awareness-adoption-iot

Special Reading Suggestions

Articles

- Ludovic F. Rembert, " **Why IoT Organizations Need To Be Aware Of The Increasing Convergence of OT And IT Systems,**" IoT Business News, Februaty 3, 2021 https://iotbusinessnews.com/2021/02/03/30151-why-iot-organizations-need-to-be-aware-of-the-increasing-convergence-of-ot-and-it-systems/
- Stacey Higginbotham, "**Why 5G network slicing is a big deal for IoT**," Stacey on IoT blog, February 2, 2021 https://staceyoniot.com/why-5g-network-slicing-is-a-big-deal-for-iot/
- Carsten Rhod Gregersen, "**5G Is Coming—But What Does It Mean for the IoT In 2021?,**" RFIF Journal, February 14, 2021 https://www.rfidjournal.com/5g-is-coming-but-what-does-it-mean-for-the-iot-in-2021

Selected IoT Perspectives
The Internet of Things and Manufacturing

- Zornisa Dimitrova, "IIoT, IoT, or MES Platforms: What's the Difference?," IoT for All, February 9, 2021 https://www.iotforall.com/iiot-iot-or-mes-platforms-whats-the-difference
- Information Services Group (ISG) press release, "**Pandemic Accelerates Smart Manufacturing Trend as U.S. Companies Face Disruptions, Continue Push Into Services**," Business Wire, February 8, 2021 https://www.businesswire.com/news/home/20210208005573/en/
- Renee Johnson, "**How CNC [Computer Numerical Control] Machining Impacts Modern-Day Manufacturing,**" The Tech Report, February 5, 2021 https://techreport.com/blog/3473885/how-cnc-machining-impacts-modern-day-manufacturing/
- David Greenfield, "**Automation Expectations: Discrete Manufacturing**," Automation World, February 4, 2021 https://www.automationworld.com/business-intelligence/article/21259474/automation-expectations-discrete-manufacturing
- James Anderton, **"The IIOT and Industry 4.0 Promise to Revolutionize Manufacturing,"** Engineering.com, February 3, 2021 https://www.engineering.com/story/the-iiot-and-industry-40-promise-to-revolutionize-manufacturing
- Vatsal Shah, **"IoT Predictions That Could Shape Manufacturing In 2021,"** Forbes Council, January 29, 201 https://www.forbes.com/sites/forbesbusinesscouncil/2021/01/29/iot-predictions-that-could-shape-manufacturing-in-2021/?sh=2705b26f612f
- Interview of Çağlayan Arkan (VP, Manufacturing Industry, Microsoft) by Peggy Smedley, "**Manufacturing: Workforce, Sustainability, and Transformation,**" Connected World – It's all about IoT, January 26, 2021 https://connectedworld.com/manufacturing-workforce-sustainability-and-transformation/
- Abhinav Dubey, "**Selecting a Predictive Maintenance system for your manufacturing plant – Guide,**" IoT Business News, January 18, 2021 https://iotbusinessnews.com/2021/01/18/02020-selecting-a-predictive-maintenance-system-for-your-manufacturing-plant-guide/

Research background info: Sudip Misra, Chandana Roy, and Anandarup Mukherjee, "**Introduction to Industrial Internet of Things and Industry 4.0,** " ISBN 9780367644710, Published February 3, 2021 by CRC Press (398 pages) https://www.routledge.com/Introduction-to-Industrial-Internet-of-Things-and-Industry-40/Misra-Roy-Mukherjee/p/book/9780367897581; Hansong Xu, Wei Yu, David Griffith, and Nada Golmie, "**A Survey on Industrial Internet of Things: A Cyber-Physical Systems Perspective,**" IEEE Xplore, December 4, 2018 https://ieeexplore.ieee.org/document/8558534; Chen Yang, Weiming Shen, and Xianbin Wang, "**The Internet of Things in Manufacturing: Key Issues and Potential Applications,**" IEEE Systems, Man, and Cybernetics Magazine, Vol.: 4, Issue: 1, Jan. 2018), https://ieeexplore.ieee.org/document/8260591

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