



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 06/30/2021. 860 entries:

https://devcdait.gatech.edu/sites/default/files/ovid-19_iot_january_2020_june_30_2021.pdf

GOVERNANCE & THE INTERNET OF THINGS

Joseph Lazzarotti, “Regulating the Internet of Things,” podcast, JD Supra, June 22, 2021 <https://www.jdsupra.com/legalnews/regulating-the-internet-of-things-44585/>

June 15, 2021 “U.S.-EU Summit Statement,” The White House <https://www.whitehouse.gov/briefing-room/statements-releases/2021/06/15/u-s-eu-summit-statement/> [...] we establish a high-level U.S.-EU Trade and Technology Council (TTC) [which] will initially include working groups with agendas focused on technology standards cooperation (including on AI, Internet of Things, among other emerging technologies) ...]

Jeff Kettle, “By 2025 the IT industry could use 20% of all electricity produced. How can we make it sustainable?” World Economic Forum, June 15, 2021 <https://www.weforum.org/agenda/2021/06/the-internet-consumes-extraordinary-amounts-of-energy-here-s-how-we-can-make-it-more-sustainable/>

Linda Rosencrance, “Could the Geopolitical Climate Hamper the Semiconductor Supply Chain?,” IoT World Today, June 15, 2021 <https://www.iotworldtoday.com/2021/06/15/could-the-geopolitical-climate-hamper-the-semiconductor-supply-chain/>

Gordon Feller, “Where Is IoT Headed? NIST Looks at Gaps in Research, Infrastructure,” Industry Week, June 10, 2021 <https://www.industryweek.com/technology-and-iiot/emerging-technologies/article/21166651/where-is-iot-headed-nist-looks-at-gaps-in-research-infrastructure>

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Biweekly IoT News Digest (06/21 – 2)

Georgia Tech IoT-related IoT News and Market Reports Info/Research Noticed by CDAIT

(Second 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_second_half.pdf
- Sample list of IoT-related market reports published in the second half of June 2021 gathered by CDAIT– 76 entries – See: https://devcdait.gatech.edu/sites/default/files/iot_market_reports_june_2021_second_half.pdf
- Wearable Stress Monitoring System Wins First CDAIT Student IoT Challenge [team members: Nathan Zavanelli, Sung Hoon Lee, and Kimberly Lie], June 15, 2021 <https://cdait.gatech.edu/sites/default/files/2021-06/Wearable.mp4>
- T. Yang, J. Ding, K. G. Vamvoudakis and S. J. Qin, “Guest Editorial: Industrial Artificial Intelligence for Smart Manufacturing,” in IEEE Transactions on Industrial Informatics, doi: 10.1109/TII.2021.3088680 available online June 11, 2021 <https://ieeexplore.ieee.org/document/9453153>
- Cheng Qi, “A Long-range Fine-scale RF Positioning System Using Tunneling Tags,” Ph.D. Dissertation, School of Electrical and Computer Engineering, May 2011 <https://smartech.gatech.edu/handle/1853/64771>

OF NOTE: IoT Analytics (Hamburg, Germany), “\$5 billion IoT Platforms Market Driven By Adoption of Large Enterprises, Increasingly Dominated by Hyperscalers,” June 9, 2021 <https://iot-analytics.com/wp/wp-content/uploads/2021/06/Insights-Release-Platforms.pdf> – See also, Matthew Wopata, “5 Things to Know About the IoT Platforms Market,” IoT Analytics, June 8, 2021 <https://iot-analytics.com/5-things-to-know-about-iot-platforms-market/>

Special Reading Suggestions

- Analytics Insight, “Adapting culture and technology: ways to shape IoT in developing countries,” Analytics Insights, June 26, 2021 <https://www.analyticsinsight.net/adapting-culture-and-technology-ways-to-shape-iiot-in-developing-countries/>
- Mathieu Hoffmann, “Nearly all of us drive automatic cars — why do we have a manual Internet of Things?” VentureBeat, June 24, 2021 <https://venturebeat.com/2021/06/24/nearly-all-of-us-drive-automatic-cars-why-do-we-have-a-manual-internet-of-things/>
- Naveen Joshi, “While Rolls-Royce is Basking in the Glory of IoT, When Will Your Business Capitalize on the Technology?,” BBN Times, June 19, 2021 <https://www.bbnimes.com/technology/while-rolls-royce-is-basking-in-the-glory-of-iiot-when-will-your-business-capitalize-on-the-technology>
- Giacomo Lee, “Cities are imperceptibly becoming Smart Cities. But what does that actually mean?,” Verdict, June 18, 2021 <https://www.verdict.co.uk/smart-cities-and-their-state-of-play-today/>
- Jim Montague, “Fewer hurdles to IIoT,” Control Global, June 16, 2021 <https://www.controlglobal.com/articles/2021/fewer-hurdles-to-iiot/>
- The Signal “6 Trends Happening with the Internet of Things,” Santa Clarita Valley Signal, June 15, 2021 <https://signalscv.com/2021/06/6-trends-happening-with-the-internet-of-things/>

Selected IoT Perspectives Internet of Things Knowledge and Skill Challenges

- Harry Moser, “Workforce Development for Global Competitiveness,” SME, June 24, 2021 <https://www.sme.org/technologies/articles/2021/june/workforce-development-for-global-competitiveness/>
- The Star staff, “Digital skills in the era of IR4.0 and global pandemic disruption,” The Star (Malaysia), June 17, 2021 <https://www.thestar.com.my/starpics/2021/06/17/digital-skills-in-the-era-of-ir40-and-global-pandemic-disruption>
- Lee Rainie, Janna Anderson and Emily A. Vogels, “Hopes about developments in ethical AI,” Pew Research Center, June 16, 2021 <https://www.pewresearch.org/internet/2021/06/16/2-hopes-about-developments-in-ethical-ai/>
- Kwame Yangame, “Today’s Tech Jobs: Skills More Important Than Knowledge,” RT Insights, June 16, 2021 <https://www.rtinsights.com/todays-tech-jobs-skills-more-important-than-knowledge/>
- Noah Rue, “Cultivating Skills and Knowledge for a Flexible IoT Career,” IoT for All, June 1, 2021 <https://www.iotforall.com/cultivating-skills-and-knowledge-for-a-flexible-iiot-career>
- Matt Hamblen, “Chip, skills shortages hold back IIoT,” Fierce Electronics, May 18, 2021 <https://www.fierceelectronics.com/electronics/chip-skills-shortages-hold-back-iiot>
- Sofia Waterfield, “How to plug the IoT skills gap,” Raconteur, December 11, 2020 <https://www.raconteur.net/technology/internet-of-things/iiot-skills-gap/>
- Anna Forster, “Addressing challenges for teaching the Internet of Things,” ITU News, February 4, 2020 <https://news.itu.int/addressing-challenges-for-teaching-the-internet-of-things/>

Research background info: Sebastian Saniuk, Dagmar Caganova and Anna Saniuk, “Knowledge and Skills of Industrial Employees and Managerial Staff for the Industry 4.0 Implementation,” Mobile Networks and Applications (2021), available online June, 10, 2021 <https://link.springer.com/article/10.1007/s11036-021-01788-4>; Shuvra Das, Darrell K Kleinke, David Pistru, Ronald Bonnstetter, and Eric Gehrig, “Paper ID #33584 - Inclusivity in Engineering Curriculum in the Age of Industry 4.0: The Role of Internet of Things,” ASEE 2021 Annual Conference https://www.researchgate.net/profile/Shuvra-Das-3/publication/351874261_Inclusivity_in_Engineering_Curriculum_in_the_Age_of_Industry_40_The_Role_of_Internet_of_Things/links/60ae41c6f4dccc647edc5173/Inclusivity-in-Engineering-Curriculum-in-the-Age-of-Industry-40-The-Role-of-Internet-of-Things.pdf – See **IoT Talent Consortium:** <https://www.iottalent.org/about-us>