



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 and related issues – as of 08/15/2021 – 930 entries:

https://devcdait.gatech.edu/sites/default/files/ovid-19_iot_january_2020_august_15_2021.pdf

GOVERNANCE & THE INTERNET OF THINGS

Nick Sacke, “Internet of things (IoT) for county councils” Open Access Government, August 13, 2021

<https://www.openaccessgovernment.org/internet-of-things-iot-for-county-councils/117524/>

Rochelle Toplensky, “Europe’s Electrification Stalwarts Go Digital,” The Wall Street Journal, August 12, 2021

<https://www.wsj.com/articles/europes-electrification-stalwarts-go-digital-11628761443>

Adam Shepherd and Jane McCallion, “Can 5G close the digital divide?” IT Pro Podcast (UK) transcript, August 6, 2021

<https://www.itpro.co.uk/mobile/5g/360494/podcast-transcript-can-5g-close-the-digital-divide>

Tony Fish, “#Identity. Are we (the industry) the problem?,” Open Governance, August 4, 2021

<https://opengovernance.net/identity-are-we-the-industry-the-problem-48da98143979>

IoT Business News Post, “Giesecke+Devrient (G+D) warns: chip shortage threatens vital economic sectors,” IoT Business News, August 4, 2021

<https://iotbusinessnews.com/2021/08/04/52841-gd-warns-chip-shortage-threatens-vital-economic-sectors/>

Swathi Suresh, “Agreement Signed to Endorse Smart Cities, Internet of Things in Oman,” OER Live, August 3, 2021

<https://www.oerlive.com/oman/agreement-signed-to-endorse-smart-cities-internet-of-things-in-oman/>

On September 14-15, 2021, NIST will host a virtual public workshop on challenges and practical approaches to initiating cybersecurity labeling efforts for Internet of Things (IoT) devices and consumer software – See related info here:

<https://www.nist.gov/news-events/events/2021/09/workshop-cybersecurity-labeling-programs-consumers-internet-things-iot>

GT CDAIT

Biweekly IoT News Digest (08/21 – 1)

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

(First Half of August 2021)

- Selected IoT-related announcements and featured activities/topics 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_august_2021_first_half.pdf
- Sample list of IoT-related market reports gathered by CDAIT– 96 entries – See: https://devcdait.gatech.edu/sites/default/files/iot_market_reports_august_2021_first_half.pdf

- Ashammakhi, Nureddin, Unluturk, Bige D., Kaarela, Outi, and Akyildiz, Ian F., “The Cells and the Implant Interact With the Biological System Via the Internet and Cloud Computing as the New Mediator,” Journal of Craniofacial Surgery: July/August 2021 - Volume 32 - Issue 5 - p 1655-1657 doi: 10.1097/SCS.00000000000007534 https://journals.lww.com/jcraniofacialsurgery/Citation/2021/08000/The_Cells_and_the_Implant_Interact_With_the_5.aspx?context=LatestArticles
- Charles A. Lynch, Aline Eid, Yunnan Fang, and Manos M. Tentzeris, “Inkjet-/3D-/4D-Printed “Zero-Power” Flexible Wearable Wireless Modules for Smart Biomonitoring and Pathogen Sensing,” 2021 IEEE International Conference on Flexible and Printable Sensors and Systems (FLEPS), online July 5, 2021 <https://ieeexplore.ieee.org/abstract/document/9469832>

OF NOTE: -- Jack Steward, “The Ultimate List of Internet of Things Statistics for 2021,” findstack, updated August 6, 2021 <https://findstack.com/internet-of-things-statistics/> -- Christo Petrov, “49 Stunning Internet of Things Statistics 2021 [The Rise Of IoT],” TechJury, updated August 5, 2021 <https://techjury.net/blog/internet-of-things-statistics/#gref>

Special Reading Suggestions

- Stacey Higginbotham, “Does it Matter? Smart home standard is delayed until 2022,” Stacey on IoT, August 13, 2021 <https://staceyoniot.com/does-it-matter-smart-home-standard-is-delayed-until-2022/>
- Laura Horwitz, “Malicious Attacks on IoT and Critical Infrastructure Gather Pace,” IoT World Today, August 9, 2021 <https://www.iotworldtoday.com/2021/08/09/malicious-attacks-on-iot-and-critical-infrastructure-and-likely-to-worsen/>
- Mathieu Hofmann, “The IoT Requires Manpower. When Will We Automate It?” Supply Chain Brain, August 5, 2021 <https://www.supplychainbrain.com/blogs/1-think-tank/post/33445-automating-the-internet-of-everyday-things>
- Parikshit N. Mahalle, Nancy Ambritta P., Gitanjali Rahul Shinde, Arvind Vinayak Deshpande, “The Convergence of Internet of Things and Cloud for Smart Computing,” [book], published on August 3, 2021 by CRC Press <https://www.routledge.com/The-Convergence-of-Internet-of-Things-and-Cloud-for-Smart-Computing/Mahalle-P-Shinde-Deshpande/p/book/9781032038049>

Selected IoT Perspectives

Recent viewpoints on Industry 4.0 (I4.0)

- Mark Wheeler, “Industry 4.0 and Industry 5.0 aren’t independent,” IT-online, August 5, 2021 <https://it-online.co.za/2021/08/05/industry-4-0-and-industry-5-0-arent-independent/>
- Steve Foxley, “Could 5G be the missing link for Industry 4.0 adoption?” Manufacturing Global, August 3, 2021 <https://manufacturingglobal.com/technology/could-5g-be-missing-link-industry-4-0-adoption>
- Lisa Chau, “Forward Motion: The Fourth Industrial Revolution Is Happening Now,” Forbes, July 31, 2021 <https://www.forbes.com/sites/zengernews/2021/07/31/forward-motion-the-fourth-industrial-revolution-is-happening-now/?sh=3d76b4113a68>
- Adrian Nicholls, “Industry 4.0 and its impact on marketing,” The Drum, July 22, 2021 <https://www.thedrum.com/profile/bbp/news/cheat-sheet-what-is-industry-4-0-and-its-impact-and-opportunities-for-marketing>
- Bernardo M. Villegas, “Understanding the Four Industrial Revolutions,” Business World, July 20, 2021 <https://www.bworldonline.com/understanding-the-four-industrial-revolutions/>
- Manish Misra, “Looking beyond Industry 4.0,” [about Society 5.0 first conceptualized in Japan], Dataquest, July 19, 2021 <https://www.dqindia.com/looking-beyond-industry-4-0/>
- Molex press release, “The state of Industry 4.0, survey says,” Design World, July 16, 2021 <https://www.designworldonline.com/the-state-of-industry-4-0-survey-says/>
- Henry Anson, “Industry 4.0 in legacy environments,” The Manufacturer, April 21, 2021 <https://www.themanufacturer.com/articles/industry-4-0-in-legacy-environments/>

Research background info (sample): Surajit Bag, Shivam Gupta, and Sameer Kumar, “Industry 4.0 adoption and 10R [Refuse, Rethink, Reduce, Reuse, Repair, Refurbish, Remanufacture, Repurpose, Recycle, and Recover] advance manufacturing capabilities for sustainable development,” International Journal of Production Economics, Volume 231, January 2021, 107844 <https://doi.org/10.1016/j.techfore.2021.120784> and <https://www.sciencedirect.com/science/article/abs/pii/S004016252100216X>