



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 08/31/2021 – 948 entries:

https://devcdait.gatech.edu/sites/default/files/covid-19_iot_january_2020_august_31_2021.pdf

GOVERNANCE & THE INTERNET OF THINGS

National Institute of Standards and Technology (NIST) press release, “IoT Non-Technical Supporting Capability Core Baseline,” August 26, 2021 <https://csrc.nist.gov/publications/detail/nistir/8259b/final>

Maria Henriquez, “5 minutes with Heath Anderson - Building an effective governance, risk management and compliance program,” Security Magazine, August 25, 2021 <https://www.securitymagazine.com/articles/95935-minutes-with-heath-anderson--building-an-effective-governance-risk-management-and-compliance-program>

Maurice G. Jenkins, “Emerging Manufacturing Technologies Drive Employers to Reform Talent, Organizational Policies,” JacksonLewis, August 24, 2021 <https://www.jacksonlewis.com/publication/emerging-manufacturing-technologies-drive-employers-reform-talent-organizational-policies>

Jackson Barnett, “New Air Force secretary voices skepticism over Internet of Things program,” FedScoop, August 19, 2021 <https://www.fedscoop.com/frank-kendall-abms-skepticism/>

Tom Hancock, “China Embraces German Model: New Economy Daily,” Bloomberg, August 17, 2021 <https://www.bloomberg.com/news/newsletters/2021-08-17/what-s-happening-in-the-world-economy>

IEEE and Spatial Web Foundation press release, “Global Standards Organizations Collaborate On Governance and Interoperability Standards for the Spatial Web,” August 11, 2021 https://www.prweb.com/releases/global_standards_organizations_collaborate_on_governance_and_interoperability_standards_for_the_spatial_web/prweb18122160.htm

GT CDAIT

Biweekly IoT News Digest (08/21 – 2)

IoT News and Market Reports

(Second 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 – 16 entries - See: https://devcdait.gatech.edu/sites/default/files/iot_news_filings_august_2021_second_half.pdf
- Sample list of IoT-related market reports gathered by CDAIT– 74 entries – See: https://devcdait.gatech.edu/sites/default/files/iot_market_reports_august_2021_second_half.pdf

Georgia Tech IoT-related Info/Research Noticed by CDAIT

- Paul M.A. Baker, Helaina Gaspard, and Jerry A. Zhu, “Industry 4.0/Digitalization and networks of innovation in the North American regional context,” European Planning Studies, published online, August 4, 2021 <https://doi.org/10.1080/09654313.2021.1963053>
- Schaar R., Zeagler C. (2021), “Predicting Inclusive Futures: Wearables, Automation, and Design Speculation,” In: Shin C.S., Di Bucchianico G., Fukuda S., Ghim YG., Montagna G., Carvalho C. (eds) Advances in Industrial Design. AHFE 2021. Lecture Notes in Networks and Systems, vol 260. Springer, Cham. https://doi.org/10.1007/978-3-030-80829-7_20
- Kim, D., Choi, J., Ahn, S. et al., “A smart home dental care system: integration of deep learning, image sensors, and mobile controller,” Journal of Ambient Intelligence and Humanized Computing (2021), published online July 6, 2021 <https://doi.org/10.1007/s12652-021-03366-8>

OF NOTE: -- Paul Rosenzweig, “The Proliferation of Internet of Things,” The Great Courses Daily, August 29, 2021 <https://www.thegreatcoursesdaily.com/the-proliferation-of-internet-of-things/>; Satyajit Sinha, “20 million cellular IoT chips missing in 2021 due to global supply shortage as Qualcomm continues to lead the market,” IoT Analytics, August 24, 2021 <https://iot-analytics.com/cellular-iot-chipset-market-2021/>

Selected IoT Perspectives

The Metaverse: Fuzzy Boondoggle or Paradigmatic Revolution?

What is it (could it be) and what is (could be) the connection with IoT?

- What is (could be) the metaverse?**
 - John Thornhill, “We should be careful which metaverse we choose to live in” - A fully-realised parallel online world will take decades to appear but the possibilities are infinite,” Financial Times (London, UK), August 26, 2021 <https://www.ft.com/content/bcac6b61-7b11-4469-99b7-c125311fa34d> also here: <https://californianewstimes.com/we-should-be-careful-which-metaverse-we-choose-to-live-in/499999/>
 - Edd Gent, “Q&A: Why the Metaverse Needs to Be Open -- Making virtual worlds as interconnected as the internet will be tough,” IEEE Spectrum, August 18, 2021 https://spectrum.ieee.org/open-metaverse?utm_campaign=post-teaser&utm_content=1kp270f8
 - Nick Kelly, “What is the metaverse? A high-tech plan to Facebookify the world,” The Conversation, August 6, 2021 <https://theconversation.com/what-is-the-metaverse-a-high-tech-plan-to-facebookify-the-world-165326>
 - Jessa Crispin, “Move over, space. Tech billionaires have a new utopian boondoggle: the ‘metaverse,’” The Guardian, August 5, 2021 https://www.theguardian.com/commentisfree/2021/aug/05/move-over-space-tech-billionaires-have-a-new-utopian-boondoggle-the-metaverse?mc_cid=05bfb4716d&mc_cid=cf0b0e87e1
 - Kyle Chayka, “Facebook Wants Us to Live in the Metaverse,” The New Yorker, August 5, 2021 https://www.newyorker.com/culture/infinite-scroll/facebook-wants-us-to-live-in-the-metaverse?mc_cid=05bfb4716d&mc_cid=cf0b0e87e1
 - John Herrmann and Kellen Browning, “Are We in the Metaverse Yet?” The New York Times, July 10, 2021 <https://www.nytimes.com/2021/07/10/style/metaverse-virtual-worlds.html>
 - Casey Newton, “Mark in the metaverse - Facebook's CEO on why the social network is becoming ‘a metaverse company’” The Verge, July 22, 2021 <https://www.theverge.com/22588022/mark-zuckerberg-facebook-ceo-metaverse-interview>
 - Brian Merchant, “The Metaverse Has Always Been a Dystopian Idea,” Vice, July 30, 2021 <https://www.vice.com/en/article/v7eqbb/the-metaverse-has-always-been-a-dystopia>
- What is (could be) the connection between the metaverse and the Internet of Things?**
 - Richard MacManus, “What the Metaverse Means for Developers,” The New Stack, August 16, 2021 <https://thenewstack.io/metaverse-developers/>
 - David Brenner, “Mark Zuckerberg’s metaverse: What it means for the enterprise,” VentureBeat, August 7, 2021 <https://venturebeat.com/2021/08/07/mark-zuckerbergs-metaverse-what-it-means-for-the-enterprise/>
 - Theo Priestley, “Digital Twins, IOT and the Metaverse,” Medium, August 5, 2021 <https://medium.com/@theo/digital-twins-iot-and-the-metaverse-b4efbc01112>
 - Frank Hersey, “Ready for handling Metaverse biometric data?” Biometric Update, July 28, 2021 <https://www.biometricupdate.com/202107/ready-for-handling-metaverse-biometric-data>
 - Amy Phearson, “Digital twins will act as ‘foundations of the metaverse’ and allow people to move between real and virtual spaces,” Dezeen, July 23, 2021 <https://www.dezeen.com/2021/07/23/digital-twins-metaverse-david-weir-mccall-epic-games/>
 - Bruce Grove, “From the IoT to Metaverse,” Polystream website n.d. <https://polystream.com/from-the-iot-to-metaverse/>
 - Coffee with Mr. IoT [Robert Schmid] “Cathy Hackl - Moving into the metaverse,” CoffeeChat, Deloitte, YouTube, June 4, 2021 <https://www.youtube.com/watch?v=DvoczSFzIkq>

Research background info (sample): Sin-nosuke Suzuki, Hideyuki Kanematsu, Dana M.Barry, Nobuyuki Ogawa, KuniakiYajima, Katsuko T Nakahira, Tatsuya Shirai, Masashi Kawaguchi, Toshiro Kobayashi, and Michiko Yoshitake, “Virtual Experiments in Metaverse and their Applications to Collaborative Projects: The framework and its significance,” Procedia Computer Science, Volume 176, 2020, Pages 2125-2132 <https://www.sciencedirect.com/science/article/pii/S1877050920321529> ---- See **Open Metaverse Interoperability Group (OMI)** <https://github.com/omigroup/OMI> - **South Korea metaverse alliance:** Min-Jun Suh “Samsung joins 200 other firms in Korea’s metaverse alliance,” Korea Economic Daily, August 3, 2021 <https://www.kedglobal.com/newsView/ked202108030012>