



CHRONICLE OF DIGITAL TRANSFORMATION THROUGH INTERNET OF THINGS TECHNOLOGIES

Some biweekly perspectives from around the globe gathered by CDAIT (6000 entries)

https://cdait.gatech.edu/sites/default/files/2022-10/Digital_Transformation_Through_IoT_Technologies_October_31_2022.pdf

GOVERNANCE & THE INTERNET OF THINGS

Dave Nyczepir, "Agencies behind on IPv6 likely to attract OMB [Office of Management and Budget]'s attention, says task force chief," FedScoop, October 27, 2022 <https://www.fedscoop.com/ipv6-transition-lag-omb/>

NIST, "U.S. Department of Commerce Appoints Members for New Internet of Things Advisory Board," NIST, October 24, 2022 <https://www.nist.gov/news-events/news/2022/10/us-department-commerce-appoints-members-new-internet-things-advisory-board>

Anjali Shere, "6 ways the Internet of Things poses security threats to journalists," The Journalist's Resource, October 21, 2022 <https://journalistsresource.org/media/6-ways-the-internet-of-things-poses-security-threats-to-journalists/>

Suzanne Smalley and Tonya Riley Randstad, "White House rallies industry support for Internet of Things labeling effort," Cyberscoop, October 19, 2022 <https://www.cyberscoop.com/white-house-iot-labeling-program/>

Randstad press release, "New study from the OECD & Randstad shows focusing on obtaining digital skills will unlock opportunities for all in the world of work," Randstad, October 19, 2022 <https://tools.eurolandir.com/tools/Pressreleases/GetPressRelease/?ID=4175381&lang=en-GB&companycode=nl-rand&v=ticker>

European Commission, "Questions and Answers: EU action plan on digitalising the energy system," EC, October 18, 2022 https://ec.europa.eu/commission/presscorner/detail/en/QANDA_22_6229

Kirsten Errick, "Most Government Orgs Fail to Meet Digital Transformation Objectives, Report Finds," Nextgov, October 17, 2022 <https://www.nextgov.com/it-modernization/2022/10/most-government-orgs-fail-meet-digital-transformation-objectives-report-finds/378496/>

Bill Moore, "The Steps To Securing Operational Technology in the Government Sector," CPO Magazine, October 17, 2022 <https://www.cpomagazine.com/cyber-security/the-steps-to-securing-operational-technology-in-the-government-sector/>

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Biweekly IoT News Digest (10/22 – 2)

IoT News and Market Reports

(Second Half of October 2022)

- 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://cdait.gatech.edu/sites/default/files/2022-10/IoT_News_Filings_October_2022_Second_Half.pdf
- Sample list of **IoT-related market reports** gathered by CDAIT– 75 entries – See: https://cdait.gatech.edu/sites/default/files/2022-10/IoT_Market_Reports_October_2022_Second_Half.pdf

Georgia Tech IoT-related Info/Research Noticed by CDAIT

- Nathan Deen, "Professor Using 'Minikers' to Harvest Energy Through Everyday Activities," GT College of Computing website [about the work of Josiah Hester, associate professor and director of the GT Ka Moamao Lab and Yang Zhang, assistant professor in electrical and computer engineering at UCLA], October 6, 2022 <https://www.cc.gatech.edu/news/professor-using-minikers-harvest-energy-through-everyday-activities>
- Huyihe Liu, "Applying collaborative online active learning in vehicular networks for future connected and autonomous vehicles," PhD Dissertation, GT School of Electrical and Computer Engineering, April 30, 2022 <http://hdl.handle.net/1853/67198>
- Rainer Alt, "Managing AI is managing complexity - An interview with Rahul C. Basole [Managing Director and Global Lead for Visualization and Interaction Science (VIS) at Accenture Applied Intelligence (Accenture AI), and former tenured professor in the GT College of Computing]," Electronics Markets (published September 1, 2022) <https://doi.org/10.1007/s12525-022-00585-5>

OF NOTE: Townsend Bourne and Lauren Weiss, "White House Aims for Spring 2023 Rollout of Internet of Things Labeling Program," JD Supra, October 28, 2022 <https://www.jdsupra.com/legalnews/white-house-aims-for-spring-2023-6064607/>; Steven Burke and Jennifer Follett, "CRN's 2022 IoT Innovators [CRN's sixth-annual IoT Innovators list]," CRN October 17, 2022 <https://www.crn.com/news/internet-of-things/crn-s-2022-iot-innovators>:

Special Reading Suggestions

- PYMNTS, "Industrial Metaverses Are Useless Without IoT's Real-Time Data," PYMNTS, October 26, 2022 <https://www.pymnts.com/metaverse/2022/industrial-metaverses-are-useless-without-its-real-time-data/>
- Vartur Mittal, "IoT Market: Challenges and opportunities for Southeast Asia," ET CIO, October 24, 2022 <https://ciosea.economicstimes.indiatimes.com/blog/iot-market-challenges-and-opportunities-for-southeast-asia/94985193>
- Toby Mills, "Supply chain disruption: Why IoT is failing to join the dots," VentureBeat, October 20, 2022 <https://venturebeat.com/data-infrastructure/supply-chain-disruption-why-iot-is-failing-to-join-the-dots/>
- Elena Giulia Clemente, "Jobs and automation: Will IoT reduce the need for human labor?" Ericsson website, October 18, 2022 <https://www.ericsson.com/en/blog/2022/10/iot-automation-job-market>

Selected IoT Perspectives Recent views on IoT Forensics

"IoT Forensics deals with the investigation of IoT devices such as smartphones, tablets, smart watches, or any device which is connected to the Internet. The data on these devices can still be retrieved via IoT forensics even if they are destroyed, resold, or misplaced. Before discarding any IoT device, we must consider how to secure the data stored on them."

Gowri, S., R. Surendran, J. Jabez, and Senduru Srinivasulud. "IoT forensics: What kind of personal data can be found on discarded, recycled, or re-sold IoT devices." *Journal of Discrete Mathematical Sciences and Cryptography* 25, no. 4 (published online, June 12, 2022): 999-1008 <https://www.tandfonline.com/doi/abs/10.1080/09720529.2022.2072422>

- Reportlinker press release, "Global Digital Forensics Market – Analysis By Type, Component, End User, By Region, By Country (2022 Edition): Market Insights and Forecast with Impact of COVID-19 (2023-2028)," Globe Newswire, October 6, 2022 <https://www.globenewswire.com/news-release/2022/10/06/2529368/0/en/Global-Digital-Forensics-Market-Analysis-By-Type-Component-End-User-By-Region-By-Country-2022-Edition-Market-Insights-and-Forecast-with-Impact-of-COVID-19-2023-2028.html>
- EC Council, "Understanding the Meaning and Purpose of IoT Forensics," EC Council Cybersecurity Exchange, June 9, 2-022 <https://www.eccouncil.org/cybersecurity-exchange/computer-forensics/understanding-meaning-purpose-iot-forensics/>

Research background info (sample): A. Ahmed, S. U. Din, E. Alhanace and R. Thomas, "State-of-the-art in IoT forensic challenges," 2022 8th International Conference on Information Technology Trends (ITT), (added to IEEE Xplore, August 29, 2022), pp. 115-118, doi: 10.1109/ITT56123.2022.9863965. <https://ieeexplore.ieee.org/document/9863965>; Zhou, Honghe, Lin Deng, Weifeng Xu, Wei Yu, Josh Dehlinger, and Suranjan Chakraborty. "Towards Internet of Things (IoT) Forensics Analysis on Intelligent Robot Vacuum Systems." In 2022 IEEE/ACIS 20th International Conference on Software Engineering Research, Management and Applications (SERA), pp. 91-98. IEEE, added to IEEE Xplore, June 30, 2022. <https://ieeexplore.ieee.org/abstract/document/9806735>; Khalid Alabdulsalam, Saad, Trung Q. Duong, Kim-Kwang Raymond Choo, and Nhien-An Le-Khac. "An efficient IoT forensic approach for the evidence acquisition and analysis based on network link," Logic Journal of the IGPL (February 17, 2022) <https://academic.oup.com/jigpal/advance-article-abstract/doi/10.1093/jigpal/jzac012/6529923>; Sagarwal, Nidhi. "IoT Forensics: Interconnection and Sensing Frameworks." *Digital Forensics and Internet of Things: Impact and Challenges*, (2022): 237-254 <https://onlinelibrary.wiley.com/doi/abs/10.1002/9781119769057.ch14>; Chichele, Gift Chimkonda. "IoT Forensics: A Pernicious Repercussions." *Digital Forensics and Internet of Things: Impact and Challenges* (2022): 255-262; Rekha, G., and T. Sudha. "A Study on IoT Forensic Investigation in the New Age of Intelligent Crimes," *Mathematical Statistician and Engineering Applications* 71, no. 4 (2022): 3274-3281. <https://philstat.org.ph/index.php/MSEA/article/view/889>; Stoyanova, Maria, Yannis Nikoloudakis, Spyridon Panagiotakis, Evangelos Pallis, and Evangelos K. Markakis. "A survey on the internet of things (IoT) forensics: challenges, approaches, and open issues." *IEEE Communications Surveys & Tutorials* 22, no. 2 (January 6, 2020): 1191-1221 <https://ieeexplore.ieee.org/abstract/document/8950109>; ---- Wikipedia entry: **IoT Forensics** https://en.wikipedia.org/wiki/IoT_Forensics