



Digest is compiled by Alain Louchez,
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CHRONICLE OF DIGITAL TRANSFORMATION THROUGH INTERNET OF THINGS TECHNOLOGIES

Some biweekly perspectives from
around the globe gathered by
CDAIT - 50 added for this Digest
(2800 entries since April 1, 2022)
https://cdait.gatech.edu/sites/default/files/2024-08/Digital_Transformation_Through_IoT_Technologies_August_31_2024.pdf

GOVERNANCE & THE INTERNET OF THINGS

Kevin Bushweller, "Sizing Up the
Risks of Schools' Reliance on the
'Internet of Things'."
EducationWeek, August 29, 2024
<https://www.edweek.org/leadership/sizing-up-the-risks-of-schools-reliance-on-the-internet-of-things/2024/08>

Ryan Daws, "FAA to drone pilots:
'Unsafe behaviour will cost you'."
IoT Tech News, August 28, 2024
<https://iottechnews.com/news/faq-drone-pilots-unsafe-behaviour-will-cost-you/>

Steven Aquino, "AI could be a game
changer for people with
disabilities," MIT Technology
Review, August 23, 2024
<https://www.technologyreview.com/2024/08/23/1096607/ai-people-with-disabilities-accessibility/>

Rhiannon Williams and James
O'Donnell, "We finally have a
definition for open-source AI,"
MIT Technology Review, August 22,
2024
<https://www.technologyreview.com/2024/08/22/1097224/we-finally-have-a-definition-for-open-source-ai/>

Christine Horton, "Prioritising
social housing with connected
technology: for safer and more
inclusive communities,"
Think.Digital Partners, August 20,
2024
<https://www.thinkdigitalpartners.com/news/2024/08/20/prioritising-social-housing-with-connected-technology-for-safer-and-more-inclusive-communities/>

Chris Donkin, "IoT, AI credited
with growing role in mining
compliance," Mobile World Live,
August 20, 2024
<https://www.mobileworldlive.com/industry/iot-ai-credited-with-growing-role-in-mining-compliance/>

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Biweekly IoT News Digest (8/24 – 2)

IoT News and Market Reports

(Second Half of August 2024)

- 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:
https://cdait.gatech.edu/sites/default/files/2024-08/IoT_News_Filings_August_2024_Second_Half.pdf
- Sample list of IoT-related market reports gathered by CDAIT – 50 entries: https://cdait.gatech.edu/sites/default/files/2024-08/IoT_Market_Reports_August_2024_Second_Half.pdf

Georgia Tech IoT-related Info/Research Noticed by CDAIT

- Sang, Fan. "Hardening and Adapting Trusted Execution Environments for Emerging Platforms," PhD dissertation, School of Cybersecurity and Privacy, College of Computing, Georgia Institute of Technology, August 2024
<https://gts3.org/assets/papers/2024/sang.thesis.pdf>
- Jiao, Roger, Xuejian Gong, Mulang Song, Shu Wang, and Petri Helo, "An X-as-a-Service (XaaS) Reference Model for Smart Manufacturing Systems," In Trends and Applications in Mechanical Engineering, Composite Materials and Smart Manufacturing, pp. 47-67. IGI Global, 2024 <https://www.igi-global.com/chapter/an-x-as-a-service-xaas-reference-model-for-smart-manufacturing-systems/353998>
- Jin, Bingzhe, Baofeng Zhang, Zhong Lin Wang, and Jie Wang. "Dynamic interfacial electrostatic energy harvesting via a single wire," (June 12, 2024) <http://www.wanggenerator.com/paper/2024/sciadv.ad05362.pdf>
- Huang, Yong, Lihui Wang, and S. Liang. "Overview of Manufacturing," Handbook of Manufacturing 14, no. 64.137 (2024)
https://www.worldscientific.com/doi/pdf/10.1142/9789813271029_0001?srsltid=AfmBOoqTg2CXE9Ngw64v_Q1nwtw8mzUTXLgzvKHYHXN_oIok4JwN

OF NOTE: The California State Assembly passed on August 28, 2024 proposed bill SB 1047, also known as the **Safe and Secure Innovation for Frontier Artificial Intelligence Models Act**, which aims to add new requirements to the development of large AI models by setting out various testing, safety, and enforcement standards -- The bill will return to the Senate floor for a final vote and, if approved, Governor Gavin Newsom will have until September 30, 2024 to veto the bill -- See Leigha Beckman, Minna Lo Naranjo, Dion M. Bregman, and Andrew J. Gray IV, "California's SB 1047 Would Impose New Safety Requirements for Developers of Large-Scale AI Models", Morgan Lewis, August 29, 2024 <https://www.morganlewis.com/pubs/2024/08/californias-sb-1047-would-impose-new-safety-requirements-for-developers-of-large-scale-ai-models>

Special Reading Suggestions

- Saily Lad, "Safer and smarter roads ahead with IoT-powered traffic management systems," Express Computer, August 29, 2024
<https://www.expresscomputer.in/guest-blogs/safer-and-smarter-roads-ahead-with-iot-powered-traffic-management-systems/115467/>
- Márk Szabó, "Old devices, new dangers: The risks of unsupported IoT tech," Welivesecurity, August 27, 2024 <https://www.welivesecurity.com/en/internet-of-things/old-devices-new-dangers-the-risks-of-unsupported-iot-tech/>
- Mayank Sharma, "Internet of Things (IoT): What is it, and how can you use it," The Middle East Economy, August 26, 2024
<https://economymiddleeast.com/news/internet-of-things-iot-what-is-it-and-how-can-you-use-it/>
- Alex Passett, "ICYMI: Five Updates from the World of IoT," IoT Evolution (8/23/24), <https://www.iotevolutionworld.com/iot/articles/460534-icymi-five-updates-from-world-iot.htm> and "ICYMI: Your IoT Updates before the Labor Day Weekend," (8/30/2024) <https://www.iotevolutionworld.com/iot/articles/460587-icymi-iot-updates-before-labor-day-weekend.htm>
- IoT Business News posting, "How to Launch a Successful Internet of Things (IoT) Startup," IoT Business News, August 19, 2024
<https://iotbusinessnews.com/2024/08/19/19789-how-to-launch-a-successful-internet-of-things-iot-startup/>
- Constantine von Hoffman, "For consumers, AI is the new IoT," Martech, August 16, 2024 <https://martech.org/for-consumers-ai-is-the-new-iot/>
- Rich Edmonds, "5 myths about IoT devices that you don't need to worry about," Xda, August 14, 2024 <https://www.xda-developers.com/myths-about-iot-devices-that-you-dont-need-to-worry-about/>

Selected IoT Perspectives Internet of Things and the insurance industry

"Long accustomed to traditional models of risk assessment and policy pricing, insurers are now embracing the disruptive potential of Internet of Things (IoT) and telematics technologies. These cutting-edge tools offer unprecedented insights into policyholders' behaviour and assets, revolutionising the way insurers evaluate risk and tailor coverage," Fintech Global posting, "How IoT and telematics are transforming insurance," Fintech Global, April 24, 2024
<https://fintech.global/2024/04/24/how-iot-and-telematics-is-transforming-insurance/>

- Joydeep Bhattacharyya, "Transforma Insights identifies nine key 'Domains of Change' for the insurance industry, driven by the use of emerging technology," IoT Now, August 26, 2024 <https://www.iodt-now.com/2024/08/26/146039-transforma-insights-identifies-nine-key-domains-of-change-for-the-insurance-industry-driven-by-the-use-of-emerging-technology/>
- Akenza AG, "How IoT Supports Insurance Claims to Prevent Water Damage," IoT for all, July 17, 2024 <https://www.iotforall.com/how-iot-supports-insurance-claims-to-prevent-water-damage>
- Michael Starks, "Revolutionizing insurance: The Internet of Things (IoT) era," Lenderdock, March 7, 2024 <https://lenderdock.com/2024/03/07/revolutionizing-insurance-the-internet-of-things-iot-era/>
- Cem Dilmegani, "6 Ways IoT Will Change the Insurance Sector in 2024," AI Multiple Research, February 13, 2024 <https://research.aimultiple.com/insurance-iot/>
- Erfan Zamanian, "IoT in Insurance; 2024 Review," Neuroject, February 1, 2024 <https://neuroject.com/iot-in-insurance/>

Research background info (sample): Chen, Yen-Chih, and Xiaoyi Li. "The impact of health-promoting efforts by older individuals on the design of long-term care insurance: the application of IoT technology," The Geneva Papers on Risk and Insurance-Issues and Practice (2024): 1-26 <https://link.springer.com/article/10.1057/s41288-024-00331-2>; Guruprakash, J., Dimitar Tokmakov, L. B. Krithika, Srinivas Koppu, R. Srinivasa-Perumal, Anna Bekyarova-Tokmakova, and Mihail Milev. "A Framework for Platform-Agnostic Blockchain and IoT Based Insurance System," IEEE Access (May 6, 2024)
<https://ieeexplore.ieee.org/abstract/document/10520904>; Kumar, JNVR Swarup, RN Vamsi Kishan, Sai Surya Saketh Devulapalli, Lisa Alexander Rajan, and Ayushi Kundu, "Digital Verification: An Efficient Fraud Document Detection for Insurance Claims using IoT and ML Approaches," In 2024 4th International Conference on Pervasive Computing and Social Networking (ICPCSN), pp. 242-247. IEEE, July 30, 2024 <https://ieeexplore.ieee.org/abstract/document/10607670>; Ahmad, Shakil, Charu Saxena, Saiful Islam, and Rejaul Karim, "Impact of insur-tech on the premium performance of insurance business," SN Computer Science 5, no. 1 (January 3, 2024): 138
<https://link.springer.com/article/10.1007/s42979-023-02462-0>; Sharan, Bediga, Mohammad Hassan, V. Divya Vani, Vijilius Helena Raj, and Priyanka Prabhakar Pawar, "Machine Learning-Based Fraud Detection System for Insurance Claims in IoT Environment," In 2024 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI), pp. 1-5. IEEE, July 25, 2024
<https://ieeexplore.ieee.org/abstract/document/10601786>; Jin, Shan, and Bhishma Karki, "Integrating IoT and blockchain for intelligent inventory management in supply chains: A multi-objective optimization approach for the insurance industry," Journal of Engineering Research (available online May 4, 2024) <https://www.sciencedirect.com/science/article/pii/S230718772400111>



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