

DAFTAR PUSTAKA

- Abdulghani, H. A., Collen, A., & Nijdam, N. A. (2023). Guidance Framework for Developing IoT-Enabled Systems' Cybersecurity. *Sensors*, 23(8). <https://doi.org/10.3390/s23084174>
- Adamova, A., Zhukabayeva, T., & Ven-Tsen, K. (2023). Internet of Things: Security and Privacy standards. *Bulletin of L.N. Gumilyov Eurasian National University Technical Science and Technology Series*, 144(3), 29–40. <https://doi.org/10.32523/2616-7263-2023-144-3-29-40>
- Agarwal, P. (2019). DevOps - A collaboration Of Developing & Deploying Software. *International Journal of Scientific Research in Computer Science, Engineering and Information Technology*, 176–181. <https://doi.org/10.32628/cseit195365>
- Ahmed, A. A., Malebary, S. J., Ali, W., & Alzahrani, A. A. (2023). A Provable Secure Cybersecurity Mechanism Based on Combination of Lightweight Cryptography and Authentication for Internet of Things. *Mathematics*, 11(1). <https://doi.org/10.3390/math11010220>
- Ammar, M., Russello, G., & Crispo, B. (2018). *Internet of Things: A survey on the Security of IoT Frameworks*.
- Amore, E., Dilger, T., Ploder, C., Bernsteiner, R., & Mezzenzana, M. (2023). Leverage the COBIT 2019 Design Toolkit in an SME Context: A Multiple Case Study. *KnE Social Sciences*. <https://doi.org/10.18502/kss.v8i1.12636>
- Anderson, N., Blythe, J., Lefevre, C., & Michie, S. (2023). Maintaining cyberhygiene in the Internet of Things (IoT): An expert consensus study of requisite user behaviours. *Qeios*. <https://doi.org/10.32388/kir04h>
- Andika, D., Mulyana, R., & Ramadhani, L. (2024). IT Governance Design Based on COBIT 2019 SME Focus Area for UMKM BPRBCo Digital Transformation. *Journal of Information System Research*, 6(1), 216–229. <https://doi.org/10.47065/josh.v6i1.5905>
- Barabas, D., Panasiuk, O., & Kryvonos, A. (2023). FORMATION OF THE COMPANY'S DIGITAL COMPETITIVE ADVANTAGES. *Mechanism of*

- an economic regulation, 2(100), 12–18.
<https://doi.org/10.32782/mer.2023.100.02>
- Bellman, C., & van Oorschot, P. C. (2020). *Best Practices for IoT Security: What Does That Even Mean?* <http://arxiv.org/abs/2004.12179>
- Bica, I., Chifor, B. C., Arseni, Ș. C., & Matei, I. (2019). Multi-layer IoT security framework for ambient intelligence environments. *Sensors (Switzerland)*, 19(18). <https://doi.org/10.3390/s19184038>
- BUMN. (2023). *Peraturan MBUMN NOMOR PER-2/MBU/03/2023*. www.peraturan.go.id
- Cahaya, P. T., Rahmani, R., Kemuning, J. L., Komplek, B., & Rahman, A. (2023). *TATA KELOLA TEKNOLOGI INFORMASI* (A. Muliani, Ed.). PT Cahaya Rahmat Rahmani.
- Dachyar, M., Eriyatno, Rusli, M. S., & M. Zagloel, T. Y. (2013). Studies on Major Factors of Innovation Systems for Telecommunication Company in Indonesia. *International Journal of Business and Management*, 8(9). <https://doi.org/10.5539/ijbm.v8n9p34>
- Damar, R., Yudhistira, T., Fauzi, P., Karunia, F., Ananto, M., Zuna, Z., Auralia, W., Sistem Informasi, U., Pembangunan, N., Veteran, J., Timur, J., Raya, R., Madya, G., & Anyar, S. (2025). PENERAPAN FRAMEWORK COBIT 5 PADA DOMAIN DSS (STUDI KASUS : BANK VICTORIA). Dalam *Jurnal Mahasiswa Teknik Informatika* (Vol. 9, Nomor 1).
- Deloitte. (2021). *IoT Governance Governance framework*.
- Denscombe, M. (2010). *The Good Research Guide for small-scale social research projects*.
- Destiana. (2019). *PENGARUH TEKNOLOGI INFORMASI BERBASIS ANDROID (SMARTPHONE) DALAM PENDIDIKAN INDUSTRY 4.0*.
- Dover, T. P. (2021). *Evaluating Medical IoT (MIoT) Device Security using NISTIR-8228 Expectations*. https://csrc.nist.gov/glossary/term/National_Institute_of_Standards_and_Technology_Interagency_or_Internal_Report

- Dubey, A., & Yadav, S. K. (2024). Basics of Internet of Things. *INTERANTIONAL JOURNAL OF SCIENTIFIC RESEARCH IN ENGINEERING AND MANAGEMENT*, 08(10), 1–6.
<https://doi.org/10.55041/IJSREM37970>
- Greaves, R. F., Kricka, L., Gruson, D., Martin, H., Ferrari, M., & Bernardini, S. (2023). Emerging technology: A definition for laboratory medicine. *Clinical Chemistry and Laboratory Medicine*, 61(1), 33–36.
<https://doi.org/10.1515/cclm-2022-0929>
- Grewal, J. S. (2018). Responding to and Preventing Threats to Cybersecurity When Utilizing the Internet of Things. *International Journal of Computer*.
<http://ijcjournal.org/>
- Haddad, N. M., Salih, H. S., Shukur, B. S., Abd, S. K., Ali, M. H., & Malik, R. Q. (2022). MANAGING SECURITY IN IOT BY APPLYING THE DEEP NEURAL NETWORK-BASED SECURITY FRAMEWORK. *Eastern-European Journal of Enterprise Technologies*, 6(9–120), 38–50.
<https://doi.org/10.15587/1729-4061.2022.269221>
- Hamad Al-mashagbeh, M., & Abuasal, S. (2023). Cyber Security & IoT Vulnerabilities Threats Intruders and Attacks Research Review. *Journal of Namibian Studies*, 33–35.
- Hevner, A. R., March, S. T., Park, J., & Ram, S. (2004). Design Science in Information Systems Research. Dalam *Source: MIS Quarterly* (Vol. 28, Nomor 1). <https://www.jstor.org/stable/25148625>
- Ibrahim, S. N. S., Khaidzi, N. A., & Arshad, Y. (2023). Information Technology Governance Mechanisms and Audit Technology Performance in Malaysia. *Proceedings of the International Symposium & Exhibition on Business and Accounting 2022 (ISEBA 2022), 28 September 2022, Malaysia, I*, 1–11.
<https://doi.org/10.15405/epfe.23081.1>
- Institute, ProjectManagement. (2017). *A Guide to the Project Management Body of Knowledge (PMBOK® Guide)-Sixth Edition (ENGLISH)*. Project Management Institute.

- ISACA. (2013). *Process Assessment Model (PAM): Using COBIT ® 5*.
<http://linkd.in/ISACAOOfficial>
- ISACA. (2018). *COBIT-2019-Framework-Introduction-and-Methodology*.
ISACA.
- ISACA. (2019a). *COBIT 2019 Framework Governance and Management Objectives*.
- ISACA. (2019b, Februari 4). *COBIT Design Factors: A Dynamic Approach to Tailoring Governance in the Era of Digital Disruption*. isaca.org.
- ISACA. (2021). *COBIT Focus Area: DevOps*.
<https://store.isaca.org/s/store#/store/browse/detail/a2S4w000004Ko9dEAC>
- Ishak, R., Sumbaryadi, A., & Purwanto, H. (2025). PEMANFAATAN COBIT UNTUK AUDIT TEKNOLOGI INFORMASI PADA PERUSAHAAN. Dalam *Jurnal Mahasiswa Teknik Informatika* (Vol. 9, Nomor 1).
- Kanstantsin, Z. (2022). Secure Change Management Process: On the Effectiveness of DevSecOps. *Computer Science and Information Technology*, 10(4), 37–51. <https://doi.org/10.13189/csit.2022.100401>
- KOMINFO. (2021a). 1620807007-Salinan_PM_Kominfo_Nomor_5_Tahun_2021_JDIH.
- KOMINFO. (2021b). *Peraturan Menteri Komunikasi dan Informatika Nomor 5 Tahun 2021 tentang Penyelenggaraan Telekomunikasi*.
www.peraturan.go.id
- Krishna, A., Le Pallec, M., Martinez, A., Mateescu, R., Salaün, G., & Mozart, G. S. (2020). *Design and Deployment of Advanced IoT Applications*. 1–4.
<https://doi.org/10.1145/3366424.3383532>
- Kumar Manda, J. (2021). *IoT Security Frameworks for Telecom Operators: Designing Robust Security Frameworks to Protect IoT Devices and Networks in Telecom Environments*. <https://innovatesci-publishers.com/index.php/ICSJ/index>

- Kumar N, N. A. (2021). ICS: Interoperable Communication System for Inter-Domain Routing in Internet-of-Things. Dalam *IJACSA) International Journal of Advanced Computer Science and Applications* (Vol. 12, Nomor 5). www.ijacsa.thesai.org
- Lestari, M., Iriani, A., & Hendry, H. (2022). Information Technology Governance Design in DevOps-Based E-Marketplace Companies Using COBIT 2019 Framework. *INTENSIF: Jurnal Ilmiah Penelitian dan Penerapan Teknologi Sistem Informasi*, 6(2), 233–252. <https://doi.org/10.29407/intensif.v6i2.18104>
- Lompoliu, E., & William Tangka, G. M. (2024). Information Technology Governance Using the COBIT 2019 Framework at PT Bank Pembangunan Daerah Papua. *International Journal of Engineering, Science and Information Technology*, 4(4). <https://doi.org/10.52088/ijesty.v4i4.609>
- Magara, T., & Zhou, Y. (2024). Internet of Things (IoT) of Smart Homes: Privacy and Security. *Journal of Electrical and Computer Engineering*, 2024. <https://doi.org/10.1155/2024/7716956>
- Maghfiroh, N. N., Nana, F. H., & Amrozi, Y. (2022). Analisis Tata Kelola E-Government Menggunakan Framework COBIT 5 pada Diskominfo Sidoarjo. *Jurnal Manajemen dan Ilmu Administrasi Publik (JMIAP)*, 4(4), 249–255. <https://doi.org/10.24036/jmiap.v4i4.380>
- Mansour, M., Gamal, A., Ahmed, A. I., Said, L. A., Elbaz, A., Herencsar, N., & Soltan, A. (2023). Internet of Things: A Comprehensive Overview on Protocols, Architectures, Technologies, Simulation Tools, and Future Directions. Dalam *Energies* (Vol. 16, Nomor 8). MDPI. <https://doi.org/10.3390/en16083465>
- Martins, P., Lopes, S. I., da Cruz, A. M. R., & Curado, A. (2021). Towards a smart & sustainable campus: An application-oriented architecture to streamline digitization and strengthen sustainability in academia. *Sustainability (Switzerland)*, 13(6). <https://doi.org/10.3390/su13063189>

- Miettinen, M., van Oorschot, P. C., & Sadeghi, A.-R. (2018). *Baseline functionality for security and control of commodity IoT devices and domain-controlled device lifecycle management*. <http://arxiv.org/abs/1808.03071>
- Mohamed, S., Sethom, K., Namoun, A., Tufail, A., Kim, K. H., & Almoamari, H. (2022). Customer Profiling Using Internet of Things Based Recommendations. *Sustainability (Switzerland)*, 14(18). <https://doi.org/10.3390/su141811200>
- Morris, G., Tangka, W., & Lompoliu, E. (t.t.). *Enhancing IT Governance at BPS Manado: A COBIT 2019 Framework Implementation Study Peningkatan Tata Kelola TI di BPS Manado: Kajian Implementasi Framework COBIT 2019*.
- Mulyana, R., Rusu, L., & Perjons, E. (2021). *IT Governance Mechanisms Influence on Digital Transformation: A Systematic Literature Review*. <https://aisel.aisnet.org/amcis2021>
- Mulyana, R., Rusu, L., & Perjons, E. (2023). *How Hybrid IT Governance Mechanisms Influence Digital Transformation and Organizational Performance in the Banking and Insurance Industry of Indonesia*.
- Mulyana, R., Rusu, L., & Perjons, E. (2024a). Key ambidextrous IT governance mechanisms for successful digital transformation: A case study of Bank Rakyat Indonesia (BRI). *Digital Business*, 4(2). <https://doi.org/10.1016/j.digbus.2024.100083>
- Mulyana, R., Rusu, L., & Perjons, E. (2024b). *Key Ambidextrous IT Governance Mechanisms Influence on Digital Transformation and Organizational Performance in Indonesian Banking and Insurance*. <https://aisel.aisnet.org/pacis2024>
- Mulyana, R., Rusu, L., & Perjons, E. (2024c). *Key Ambidextrous IT Governance Mechanisms Influence on Digital Transformation and Organizational Performance in Indonesian Banking and Insurance*. <https://aisel.aisnet.org/pacis2024>

- Nadkarni, S., & Prügl, R. (2021). Digital transformation: a review, synthesis and opportunities for future research. *Management Review Quarterly*, 71(2), 233–341. <https://doi.org/10.1007/s11301-020-00185-7>
- Naem, M. S. A., Koudil, M., & Ouldimam, Z. (2022). Product Quality Assessment in the Internet of Things: A Consumer-Oriented Approach. *Sensors*, 22(6). <https://doi.org/10.3390/s22062215>
- Nakajima, T., & Komiyama, T. (2019). *Applying Quality Requirements Framework to an IoT System and its Evaluation*. www.iaria.org
- Olga Greuter, K., & Sarmah, D. K. (2022). The baseline of global consumer cyber security standards for IoT: quality evaluation. *Journal of Cyber Security Technology*, 6(4), 175–200. <https://doi.org/10.1080/23742917.2022.2105192>
- Oliver, P. (2003). *The Student's Guide to Research Ethics*.
- Oluwatosin Ilori, Nelly Tochi Nwosu, & Henry Nwapali Ndidi Naiho. (2024). A comprehensive review of it governance: effective implementation of COBIT and ITIL frameworks in financial institutions. *Computer Science & IT Research Journal*, 5(6), 1391–1407. <https://doi.org/10.51594/csitrj.v5i6.1224>
- Öztürk, E., Ulu, A., & Çavdar, T. (2019). PREVENT THE TRANSMISSION OF USELESS / REPEATED DATA TRANSMISSION IN THE INTERNET OF THINGS NETWORK. *Turkish Journal of Engineering*, 3(1), 39–42. <https://doi.org/10.31127/tuje.443482>
- Panesar, R., Neve, M., & Rogers, D. (2023). *The State of Vulnerability Disclosure Policy (VDP) Usage in Global Consumer IoT in 2023*.
- Parera, N. M., & Tambotoh, J. J. C. (2023). *SISTEMASI: Jurnal Sistem Informasi Pengukuran Kapabilitas Tata Kelola Teknologi Informasi pada DISKOMINFO Salatiga menggunakan COBIT 2019 Measuring IT Governance Capability at DISKOMINFO Salatiga using COBIT 2019*. <http://sistemasi.ftik.unisi.ac.id>

- Plekhanov, D., Franke, H., & Netland, T. H. (2023). Digital transformation: A review and research agenda. *European Management Journal*, 41(6), 821–844. <https://doi.org/10.1016/j.emj.2022.09.007>
- Raja, P., Kumar, Dr. S., Yadav, D. S., & Singh, Dr. T. (2023). The Internet of Things (IOT): A Review of Concepts, Technologies, and Applications. *International Journal of Information technology and Computer Engineering*, 32, 21–32. <https://doi.org/10.55529/ijitc.32.21.32>
- Ricardo Zoldan Giampaoli, Maurício Gregianin Testa, & Edimara Mezzomo Luciano. (2012). *Análise A Revista Acadêmica da FACE* (Nomor 2).
- Rizaldi, M. A., Mulyana, R., & Ramadani, L. (2024). Digital Transformation of BPRACo by Designing IT Governance with COBIT 2019 SME Focus Area. *Kompak :Jurnal Ilmiah Komputerisasi Akuntansi*, 17(2), 349–365. <https://doi.org/10.51903/kompak.v17i2.2072>
- Romeo, L., Petitti, A., Marani, R., & Milella, A. (2020). Internet of robotic things in smart domains: Applications and challenges. Dalam *Sensors (Switzerland)* (Vol. 20, Nomor 12, hlm. 1–23). MDPI AG. <https://doi.org/10.3390/s20123355>
- Salukhe, A., Patil, G., Chavan, A., Pawar, A., & Thadi, M. (2023). Internet of Things. *International Journal for Research in Applied Science and Engineering Technology*, 11(9), 1062–1069. <https://doi.org/10.22214/ijraset.2023.55710>
- Satriadi, A. F., Mulyana, R., & Fauzi, R. (2023). AGILE IT SERVICE MANAGEMENT DESIGN OF FINTECHCO DIGITALIZATION BASED ON COBIT 2019 DEVOPS FOCUS AREA. *Jurnal Teknik Informatika (Jutif)*, 4(5), 1165–1177. <https://doi.org/10.52436/1.jutif.2023.4.5.1304>
- Schraven, M. H., Droste, K., Carducci, C. G. C., Müller, D., & Monti, A. (2022). Open-Source Internet of Things Gateways for Building Automation Applications. *Journal of Sensor and Actuator Networks*, 11(4). <https://doi.org/10.3390/jsan11040074>

- Sedrati, A., Mezrioui, A., & Ouaddah, A. (2022). IoT Governance: A state of the Art and a Comparative analysis. *2022 13th International Conference on Information and Communication Systems, ICICS 2022*, 76–81. <https://doi.org/10.1109/ICICS55353.2022.9811219>
- Sedrati, A., Mezrioui, A., & Ouaddah, A. (2023). IoT-Gov: A structured framework for internet of things governance. *Computer Networks*, 233. <https://doi.org/10.1016/j.comnet.2023.109902>
- Seijo, & Campos, B. (2022). *2022-emerging-technologies*.
- Sembhi, S., Boakes, E., Willison, J., Cooke, D., Ghadiminia, N., & Vitor, J. (2023). *Notices, Disclaimer, Terms of Use, Copyright and Trade Marks and Licensing Notices*. <https://iotsecurityfoundation.org/>
- Shenton, A. K. (2004). Strategies for ensuring trustworthiness in qualitative research projects. *Education for Information*, 22(2), 63–75. <https://doi.org/10.3233/EFI-2004-22201>
- Solikhah, atus, Magdalena, L., & Hatta, M. (2024). IMPLEMENTATION OF THE COBIT 2019 FRAMEWORK ON INFORMATION TECHNOLOGY GOVERNANCE AND RISK MANAGEMENT (STUDY CASE: CV. SYNTAX CORPORATION INDONESIA). *Journal of Universal Studies*, 4(7). <http://eduvest.greenvest.co.id>
- Song, J., Martens, A., & Vanhoucke, M. (2022). Using Earned Value Management and Schedule Risk Analysis with resource constraints for project control. *European Journal of Operational Research*, 297(2), 451–466. <https://doi.org/https://doi.org/10.1016/j.ejor.2021.05.036>
- Song, L., & García-Valls, M. (2022). Improving Security of Web Servers in Critical IoT Systems through Self-Monitoring of Vulnerabilities. *Sensors*, 22(13). <https://doi.org/10.3390/s22135004>
- Soori, M., Arezoo, B., & Dastres, R. (2023). Internet of things for smart factories in industry 4.0, a review. Dalam *Internet of Things and Cyber-Physical Systems* (Vol. 3, hlm. 192–204). KeAi Communications Co. <https://doi.org/10.1016/j.iotcps.2023.04.006>

- Soorya, A., Margulis, A., Bott, A., Hills, C., & Sambordaran, A. (2021). *IoTSF IoT Security Assurance Framework*. <https://iotsecurityfoundation.org>.
- Sultan, N. H., Kasra-Kermanshahi, S., Tran, Y., Lai, S., Varadharajan, V., Nepal, S., & Yi, X. (2023). *A Multi-Client Searchable Encryption Scheme for IoT Environment*. <http://arxiv.org/abs/2305.09221>
- Tangprasert, S. (2020). A Study of Information Technology Risk Management of Government and Business Organizations in Thailand using COSO-ERM based on the COBIT 5 Framework. *The Journal of Applied Science*, 19(1), 13–24. <https://doi.org/10.14416/j.appsci.2020.01.002>
- Tariq, U., Ahmed, I., Bashir, A. K., & Shaukat, K. (2023). A Critical Cybersecurity Analysis and Future Research Directions for the Internet of Things: A Comprehensive Review. Dalam *Sensors* (Vol. 23, Nomor 8). MDPI. <https://doi.org/10.3390/s23084117>
- Trnka, M., Abdelfattah, A. S., Shrestha, A., Coffey, M., & Cerny, T. (2022). Systematic Review of Authentication and Authorization Advancements for the Internet of Things. Dalam *Sensors* (Vol. 22, Nomor 4). MDPI. <https://doi.org/10.3390/s22041361>
- Villamil, S., Hernández, C., & Tarazona, G. (2020). An overview of internet of things. *Telkomnika (Telecommunication Computing Electronics and Control)*, 18(5), 2320–2327. <https://doi.org/10.12928/TELKOMNIKA.v18i5.15911>
- vom Brocke, J., Loos, P., Seidel, S., & Watson, R. T. (2012). BISE – Call for Papers Issue 5/2013. *Business & Information Systems Engineering*, 4(1), 47–51. <https://doi.org/10.1007/s12599-011-0195-z>
- Weber, R. H., & Weber, R. (2010). Governance of the Internet of Things. Dalam *Internet of Things* (hlm. 69–100). Springer Berlin Heidelberg. https://doi.org/10.1007/978-3-642-11710-7_4
- Wood, D., & Kanojia, N. (2023). *Internet of Things (IoT) Paradigms for Mobility and Heterogeneity*.

Wu, S. T., & Chang, J. R. (2023). Secure One-Way Hash Function Using Cellular Automata for IoT. *Sustainability (Switzerland)*, 15(4). <https://doi.org/10.3390/su15043552>

Zangrandi, R. (2016). *“I’m sorry, my friend, but you’re implicit in the algorithm...” Privacy and internal access to #BigDataStream An interview with Giovanni Buttarelli, European Data Protection Supervisor.*