## BIBLIOGRAPHY

- [1] N. F. Mufidah, H. H. Nuha, and N. A. S, "Monitoring and prediction of water quality in catfish biofloc ponds at sein farm using iot and linear regression," in 2023 International Conference on Artificial Intelligence, Blockchain, Cloud Computing, and Data Analytics (ICoABCD), 2023, pp. 13–18.
- [2] G. Saritha, R. Ishwarya, T. Saravanan, P. A. S. Sudarshana, and S. Sowmiya, "Water quality monitoring system using iot," in 2023 Eighth International Conference on Science Technology Engineering and Mathematics (ICONSTEM), 2023, pp. 1–5.
- [3] "Total fisheries production (metric tons) data," 2022, diakses: Jan 27, 2025. [Online]. Available: https://data.worldbank.org/indicator/ER.FSH.PROD.MT?end= 2022&most\_recent\_value\_desc=true&start=1960&view=chart&year\_high\_desc=true
- [4] C. Liang, J. Zhang, S. Ma, Y. Zhou, Z. Hong, J. Fang, Y. Zhou, and H. Tang, "Study on data storage and verification methods based on improved merkle mountain range in iot scenarios," *Journal of King Saud University -Computer and Information Sciences*, vol. 36, p. 102117, 2024. [Online]. Available: https://www.sciencedirect.com/science/article/pii/S1319157824002064
- [5] S. S. Dhanda, B. Singh, and P. Jindal, "Lightweight cryptography: A solution to secure iot," Wireless Personal Communications, vol. 112, pp. 1947–1980, 2020.
  [Online]. Available: https://doi.org/10.1007/s11277-020-07134-3
- [6] P. Nutipalli, G. C. V. Sai, G. Abhinaya, K. C. Manozna, L. H. Sai, and R. A. Setamraju, "An iot- based measure guage for surveil of water quality by parametric quantity," *International Journal for Research in Applied Science and Engineering Technology*, vol. 12, pp. 3768–3773, 4 2024.
- [7] R. Raman and A. Deshpande, "Real-time monitoring system for safe drinking water safety using iot and cloud computing," in 2024 International Conference on Advances in Data Engineering and Intelligent Computing Systems (ADICS), 2024, pp. 1–6.
- [8] "Check point research reports highest increase of global cyber attacks seen in last two years a 30% increase in q2 2024 global cyber attacks check point blog," 2024,. [Online]. Available: https://blog.checkpoint.com/research/check-point-research-reports-highest-increase-of-global-cyber-attacks-seen-in-last-two-years-a-30-in-
- [9] "Monthly number of iot attacks global 2022 statista," 2022. [Online]. Available: https://www.statista.com/statistics/1322216/worldwide-internet-of-things-attacks/
- [10] B. Nassi, M. Sror, I. Lavi, Y. Meidan, A. Shabtai, and Y. Elovici, "Piping botnet -turning green technology into a water disaster," 11 2018.

- [11] P. Lawhale and S. Kale, "A survey on secure architectures using hash function based on fpga for block chain enabled iot devices," in 2023 11th International Conference on Emerging Trends in Engineering & Technology Signal and Information Processing (ICETET SIP), 2023, pp. 1–6.
- [12] S. Windarta, S. Suryadi, K. Ramli, B. Pranggono, and T. S. Gunawan, "Lightweight cryptographic hash functions: Design trends, comparative study, and future directions," *IEEE Access*, vol. 10, pp. 82272–82294, 2022.
- [13] "xxhash extremely fast non-cryptographic hash algorithm." [Online]. Available: https://xxhash.com/
- [14] M.-T. Cheng, "xxhashlite: Extremely fast hashing of r objects, raw data and files using 'xxhash' algorithms," 2024. [Online]. Available: https://cran.r-project.org/web/packages/xxhashlite/xxhashlite.pdf
- [15] N. Mufidah and H. Nuha, "Performance and security analysis of lightweight hash functions in iot," *Jurnal Informatika: Jurnal Pengembangan IT*, vol. 9, pp. 264–270, 12 2024.
- [16] F. Jan, N. Min-Allah, and D. Düştegör, "Iot based smart water quality monitoring: Recent techniques, trends and challenges for domestic applications," 7 2021.
- [17] W. Qian, "Research on the integrated algorithm of sensor network in water environment monitoring," in 2024 IEEE 6th International Conference on Civil Aviation Safety and Information Technology (ICCASIT), 2024, pp. 304–308.
- [18] D. Upadhyay, N. Gaikwad, M. Zaman, and S. Sampalli, "Investigating the avalanche effect of various cryptographically secure hash functions and hash-based applications," *IEEE Access*, vol. 10, pp. 112472–112486, 2022.
- [19] Y. Carriazo-Regino, R. Baena-Navarro, F. Hoyos, J. Vergara, and S. Roa-Prada, "Iot-based drinking water quality measurement: systematic literature review," *Indonesian Journal of Electrical Engineering and Computer Science*, vol. 28, pp. 405 418, 1 2022.
- [20] P. Tyagi, R. Goyal, R. Saxena, and G. Raj, "Iot based waterproof system for water quality and level monitoring," *International Journal for Research in Applied Science and Engineering Technology*, vol. 12, pp. 941–947, 11 2024. [Online]. Available: https://www.ijraset.com/best-journal/iot-based-waterproof-system-for-water-quality-and-level-monitoring
- [21] M. López-Munoz, R. Torrealba, C. Arriaga-Arriaga, E. Tamariz-Flores, M. López, F. Quirino-Morales, J. M. Munoz-Pacheco, and F. Lopez-Marcos, "Wireless dynamic

- sensor network for water quality monitoring based on the iot," *Technologies*, vol. 12, p. 211, 1 2024.
- [22] S. Dubey, A. Sanghvi, P. Yadav, A. Balmiki, and S. Bansode, "To implement the iot based water quality monitoring and analysis with using blockchain technology," in 2024 International Conference on Advances in Computing Research on Science Engineering and Technology (ACROSET), 2024, pp. 1–6.
- [23] B. Amirgaliyev, A. Kozbakova, A. Kozbakova, P. Omarova, T. Merembayev, P. Omarova, K. Amirzhan, T. Merembayev, and K. Amirzhan, "Development and experimental study of an intelligent water quality monitoring system based on the internet of things," *Bulletin of Electrical Engineering and Informatics*, vol. 14, pp. 761–773, 2 2025. [Online]. Available: https://beei.org/index.php/EEI/article/view/8864
- [24] D. P. GJ, S. T, V. P, S. D. Muzammil, and N. R. Karthikeya, "Smart water pollution management: Iot for automatic detection and prevention," *International Journal of Advanced Research in Science, Communication and Technology*, pp. 532–548, 5 2024.
- [25] S. R, S. K, and J. VE, "Review on evaluation and analysis of water quality monitoring systems using iot," *International Research Journal on Advanced Engineering Hub* (IRJAEH), vol. 2, pp. 2331–2341, 1 2024.
- [26] R. Khanna and H. Gupta, "Design and development of integrity checker for data security," 1 2024, pp. 1–6.
- [27] N. Enshaei and F. Naderkhani, "The role of data quality for reliable ai performance in medical applications," *IEEE Reliability Magazine*, vol. PP, pp. 1–5, 1 2024.
- [28] C. Idemudia, A. B. Ige, V. I. Adebayo, and O. G. Eyieyien, "Enhancing data quality through comprehensive governance: Methodologies, tools, and continuous improvement techniques," *Computer Science & Eamp; IT Research Journal*, vol. 5, pp. 1680–1694, 7 2024. [Online]. Available: https://www.fepbl.com/index.php/csitrj/article/view/1352
- [29] F. Mirza, "Ensuring data quality and integrity by implementing validation and cleansing mechanisms during ingestion," *International Journal of Science and Research* (*IJSR*), vol. 12, pp. 1263–1267, 1 2023.
- [30] M. Vermanen, J. Naskali, V. Harkke, and J. Koskinen, "Papa for iot role of data accuracy in iot deployment and data-centric decision-making," in 2023 46th MIPRO ICT and Electronics Convention (MIPRO), 2023, pp. 500-505.
- [31] H. Jin, G. H. Jeon, H. W. A. Choi, S. Jeon, and J. T. Seo, "A threat modeling framework for iot-based botnet attacks," *Heliyon*, vol. 10, 10 2024.

- [32] S. Kamran and Q. Shafi, "Botnet prevention using blockchain for sdn based iot devices," 1 2024.
- [33] C. Mittal, "Obstacles and countermeasures for protecting internet of things devices from emerging security risks," Cyber Security: A Peer-Reviewed Journal, vol. 8, p. 48, 9 2024.
- [34] F. Olaoluwa and K. Potter, "Iot security risk assessment and mitigation," 9 2024. [Online]. Available: https://www.preprints.org/manuscript/202409.0468/v1
- [35] R. Reepu, "Processing and modification of blockchain transactions," 2023.
- [36] F. Wang, Q.-R. Liu, and Y. Gao, "A symmetric and multilayer reconfigurable architecture for hash algorithm," *Electronics*, vol. 12, p. 2872, 2023.
- [37] Y. Xu, L. Han, Z. Yu, and F. Che, "Optimized design implementation and research of sm3 hash algorithm based on fpga," pp. 111 117, 2022.
- [38] H. Li, "Data information security algorithm based on chaos and hash function," Applied mathematics and nonlinear sciences, vol. 0, 2023.
- [39] M. A. Holla, A. S. Shetty, S. Santhameena, S. Harshraj, and S. Sushmitha, "Implementation of a modified sha-3 hash function on fpga," pp. 1 6, 2023.
- [40] "Leveraging fpga runtime reconfigurability to implement multi-hash-chain proof-of-work," 2022.
- [41] K. Tulkinbekov and D.-H. Kim, "Data modifications in blockchain architecture for big-data processing," 2023.