

DAFTAR PUSTAKA

- [1] Ericsson, “Ericsson mobility report november 2024,” 2024, accessed: 30 Juni 2024. Page: 4. [Online]. Available: <https://www.ericsson.com/4adb7e/assets/local/reports-papers/mobility-report/documents/2024/ericsson-mobility-report-november-2024.pdf>
- [2] Y. Ren, W. Qi, and M. Fan, “The development of tik tok’s global market,” in *Proceedings of the 2021 3rd International Conference on Economic Management and Cultural Industry (ICEMCI 2021)*, ser. Advances in Economics, Business and Management Research, vol. 203. Atlantis Press, 2021, p. 2782.
- [3] Tiktok, “What’s next 2023 trend report a new era of confidence (indonesia).” 2024, accessed: 19 November 2024. Page: 9. [Online]. Available: https://ads.tiktok.com/business/library/ID_TikTokWhatsNext_Final.pdf
- [4] D. Borges, P. Montezuma, R. Dinis, and M. Beko, “Massive mimo techniques for 5g and beyond—opportunities and challenges,” *Electronics*, vol. 10, p. 2, 2021, published: 13 July 2021. [Online]. Available: <https://www.mdpi.com/2079-9292/10/14/1667>
- [5] S. A. Devi, “5g wireless network technology: The evolution of 5g and technological developments towards the successor of 5g: Comparison,” *International Journal of Health Sciences*, vol. 6, p. 5409, 2022. [Online]. Available: <https://sciencescholar.us/journal/index.php/ijhs/article/view/13465>
- [6] A. I. Falah and A. H. Hadna, “Problematika pendidikan masa pandemi di indonesia pada daerah 3-t (terluar, tertinggal, dan terdepan) / problematical issues on indonesian education during pandemic in the 3-t regions (frontier, outermost, and least developed),” *Jurnal Pendidikan dan Kebudayaan*, vol. 7, no. 2, p. 1, 2022, terbit: 30 Desember 2022.
- [7] D. Sudiantini, M. P. Ayu, M. C. A. S. Aswan, M. A. Prastuti, and M. Apriliya, “Transformasi digital: Dampak, tantangan, dan peluang untuk pertumbuhan ekonomi digital,” *Trending: Jurnal Ekonomi, Akuntansi dan Manajemen*, vol. 1, no. 3, pp. 21–30, 2023, received: March 30, 2023; Revised: April 12, 2023; Accepted: May 31, 2023. [Online]. Available: <https://doi.org/10.30640/trending.v1i3.1115>

- [8] M. Mahbub and B. Barua, "Energy and latency-aware computation offloading and resource allocation for a multi-access edge computing-enabled heterogeneous network," in *2021 International Conference on Science & Contemporary Technologies (ICSCT)*. Dhaka, Bangladesh: IEEE, 2021, conference Date: 5–7 August 2021, Published: 20 December 2021. [Online]. Available: <https://ieeexplore.ieee.org/document/9642693>
- [9] S. Scherrer, S. Tabaeiaghdaei, and A. Perrig, "Quality competition among internet service providers," *Performance Evaluation*, vol. 162, p. 21, 2023. [Online]. Available: <https://doi.org/10.1016/j.peva.2023.102375>
- [10] A. Vakali and G. Pallis, "Content delivery networks: Status and trends," *IEEE Internet Computing*, vol. 7, pp. 68–74, November-December 2003. [Online]. Available: <https://doi.org/10.1109/MIC.2003.1250586>
- [11] W. hsiu Ma and D. H. C. Du, "Design a progressive video caching policy for video proxy servers," *IEEE Transactions on Multimedia*, vol. 6, August 2004. [Online]. Available: <https://doi.org/10.1109/TMM.2004.830819>
- [12] S. H. Ahmed, S. H. Bouk, and D. Kim, *Content-Centric Networks: An Overview, Applications and Research Challenges*, ser. SpringerBriefs in Electrical and Computer Engineering. Springer, 2016. [Online]. Available: <https://doi.org/10.1007/978-981-10-0066-9>
- [13] J. A. Adebisola, A. M. Olubunmi, A. A. Ariyo, O. O. Julius, and O. A. Elisha, "An overview of 5g technology," in *2020 International Conference in Mathematics, Computer Engineering and Computer Science (ICMCECS)*. Ayobo, Nigeria: IEEE, 2020, p. 1. [Online]. Available: <https://doi.org/10.1109/ICMCECS47690.2020.240853>
- [14] S. Čaušević and A. Medić, "4g to 5g network evolution: Advantages and differences." *Science and Research Journal*, 2021, p. 156. [Online]. Available: https://www.sarjournal.com/content/44/SARJournalDecember2021_153_159.html
- [15] V. Sahu, N. Sahu, and R. Sahu, "Challenges and opportunities of 5g network: A review of research and development." *American Journal of Electrical and Computer Engineering*, 2024, p. 14. [Online]. Available: https://www.researchgate.net/publication/382374532_Challenges_and_Opportunities_of_5G_Network_A_Review_of_Research_and_Development

- [16] M. Alnaas and O. Alhodairy, “Comparison of 5g networks non-standalone architecture (nsa) and standalone architecture (sa).” *Academy journal for Basic and Applied Sciences (AJBAS)*, 2024, p. 11. [Online]. Available: https://www.academia.edu/117288843/Comparison_of_5G_Networks_Non_Standalone_Architecture_NSA_and_Standalone_Architecture_SA
- [17] H. Li, M. Sun, F. Xia, X. Xu, and M. Bilal, “A survey of edge caching: Key issues and challenges.” *Tsinghua Science and Technology*, 2024, p. 819. [Online]. Available: <https://ieeexplore.ieee.org/document/10339809>
- [18] K. S. Tharakan, B. N. Bharath, and V. Bhatia, “Cache enabled cellular network: Algorithm for cache placement and guarantees.” *IEEE WIRELESS COMMUNICATIONS LETTERS*, 2019, p. 1550. [Online]. Available: <https://ieeexplore.ieee.org/document/8755463>
- [19] T. N. AHMAD, *OPTIMALISASI UPAYA POLRES SIDRAP DALAM PEMBERANTASAN SOBIS PENIPUAN ONLINE DI KABUPATEN SIDRAP*, 2022. [Online]. Available: https://digilibadmin.unismuh.ac.id/upload/43478-Full_Text.pdf
- [20] “System architecture for the 5g system,” no. TS 23.501, 2018, p. 18, release 15. [Online]. Available: https://www.etsi.org/deliver/etsi_ts/123500_123599/123501/15.02.00_60/ts_123501v150200p.pdf
- [21] Z. K, H. R, and W. X, “Time segmentation-based hybrid caching in 5g-icn bearer network.” *Multidisciplinary Digital Publishing Institute*, 2023, p. 5. [Online]. Available: <https://www.mdpi.com/1999-5903/15/1/30>
- [22] T. X. Tran, A. Hajisami, and D. Pompili, “Cooperative hierarchical caching in 5g cloud radio access networks (c-rans).” *arXiv*, 2017, p. 3. [Online]. Available: <https://arxiv.org/abs/1602.02178>
- [23] A. Santoyo-González and C. Cervelló-Pastor, “Network-aware placement optimization for edge computing infrastructure under 5g.” *IEEE (Institute of Electrical and Electronics Engineers)*, 2020, pp. 1–2. [Online]. Available: <https://ieeexplore.ieee.org/document/9043540>
- [24] “Nr; nr and ng-ran overall description; stage-2,” no. TS 38.300, 2020, pp. 15–16, release 16. [Online]. Available: https://www.etsi.org/deliver/etsi_ts/138300_138399/138300/16.03.00_60/ts_138300v160300p.pdf

- [25] M. Klinkowski, "Latency-aware du/cu placement in convergent packet-based 5g fronthaul transport networks," p. 2, 2020. [Online]. Available: <https://www.mdpi.com/2076-3417/10/21/7429>
- [26] B. Maria, S. Marcelo, C. Ednelson, and K. Dias, "Open-source 5g core platforms: A low-cost solution and performance evaluation," pp. 5–6, 2025. [Online]. Available: <https://ieeexplore.ieee.org/document/10992769>
- [27] T. Mukute, L. Mamushiane, A. A. Lysko, E.-R. Modroiu, T. Magedanz, and J. Mwangama, "Control plane performance benchmarking and feature analysis of popular open-source 5g core networks: Openairinterface, open5gs, and free5gc," pp. 1–25, 2024. [Online]. Available: <https://ieeexplore.ieee.org/document/10992769>
- [28] A. Metsos, D. Uzunidis, P. Papadopoulos, and P. Karkazis, "Comparative analysis of three opensource 5g simulation tools," p. 2, 2025. [Online]. Available: <https://doi.org/10.1145/3716554.3716570>
- [29] M. Amini and C. Rosenberg, "A comparative analysis of open-source software in an e2e 5g standalone platform," p. 1, 2024. [Online]. Available: <https://ieeexplore.ieee.org/document/10571340>
- [30] M. Rouili, N. Saha, M. Golkarifard, M. Zangoeei, R. Boutaba, E. Onur, and A. Saleh, "Evaluating open-source 5g sa testbeds: Unveiling performance disparities in ran scenarios," p. 2, 2024. [Online]. Available: <https://ieeexplore.ieee.org/document/10575687>
- [31] L. M. Herrawan, A. R. Pramesti, C. Setiawan, M. W. Putranti, L. V. Yovita, T. A. Wibowo, M. F. Rizal, and I. Ginting, "The implementation of mobile edge caching over 4g lte using varnish cache and apache traffic server," 2023. [Online]. Available: <https://ieeexplore.ieee.org/abstract/document/10365628/metrics#metrics>
- [32] Bakhtiyari, "Performance evaluation of the apache traffic server and varnish reverse proxies," 2012. [Online]. Available: <https://www.duo.uio.no/handle/10852/34903>
- [33] International Telecommunication Union, "Report itu-r m.2410-0: Minimum requirements related to technical performance for imt-2020 radio interface(s)," ITU-R Radiocommunication Sector, Tech. Rep. ITU-R M.2410-0, November 2017. [Online]. Available: https://www.itu.int/dms_pub/itu-r/opb/rep/R-REP-M.2410-2017-PDF-E.pdf

- [34] Ookla and Omdia, “A global evaluation of europe’s digital competitiveness in 5g standalone,” Ookla, Tech. Rep., 2025. [Online]. Available: <https://www.ookla.com/articles/europe-5g-sa-report-2025>
- [35] M. Rouili, N. Saha, M. Golkarifard, M. Zangoeei, R. Boutaba, E. Onur, and A. Saleh, “Evaluating open-source 5g sa testbeds: Unveiling performance disparities in ran scenarios,” in *2024 IEEE/IFIP Network Operations and Management Symposium (NOMS)*, 2024. [Online]. Available: <https://doi.org/10.1109/NOMS59830.2024.10575687>
- [36] 3rd Generation Partnership Project (3GPP), “System architecture for the 5g system (5gs); stage 2 (ts 23.501),” 3GPP, Technical Specification V18.5.0, Jun 2024, release 18.
- [37] I. Avgouleas, N. Pappas, and V. Angelakis, “A wireless caching helper system with heterogeneous traffic and random availability,” *EURASIP Journal on Wireless Communications and Networking*, vol. 2021, no. 1, pp. 1–27, 2021. [Online]. Available: <https://doi.org/10.1186/s13638-021-01935-1>
- [38] F. Ahmed, K. Nguyen, and T. Lestable, “Proactive edge caching with popularity prediction and content replication,” in *2024 IEEE International Conference on Communications (ICC)*. IEEE, 2024.
- [39] M. Al-Abiad, N. Zbib, S. Sharafeddine, C. Assi, and A. Ghrayeb, “Co-operative and hybrid replacement caching for multi-access mobile edge computing,” in *2021 European Conference on Networks and Communications (EuCNC)*. IEEE, 2021.