

## DAFTAR PUSTAKA

- [1] E. Pietrosemoli, M. Zennaro, and C. Fonda, “Low cost carrier independent telecommunications infrastructure,” *2012 Glob. Inf. Infrastruct. Netw. Symp. GIIS 2012*, pp. 1–4, 2012, doi: 10.1109/GIIS.2012.6466655.
- [2] D. Hashim Osman, A. Babiker, and K. H. Bellal, “Comparison Study of 3G and 4G Mobile Technology,” *Eur. J. Comput. Sci. Inf. Technol.*, vol. 6, no. 4, pp. 35–40, 2018, [Online]. Available: [www.eajournals.org](http://www.eajournals.org).
- [3] O. O. FAGBOHUN, “Comparative studies on 3G,4G and 5G wireless technology,” *IOSR J. Electron. Commun. Eng.*, vol. 9, no. 2, pp. 133–139, 2014, doi: 10.9790/2834-0925133139.
- [4] P. Hatami and A. Yari, “A comparative study of wireless broad band access technologies,” *2014 7th Int. Symp. Telecommun. IST 2014*, pp. 752–757, 2014, doi: 10.1109/ISTEL.2014.7000803.
- [5] A. Majeed and G. Lahore, “Comparative Studies of 3G, 4G & 5G Mobile Network & Data Offloading Method a Survey,” *IJRIT Int. J. Res. Inf. Technol.*, vol. 3, no. 5, pp. 421–427, 2015, [Online]. Available: [www.ijrit.com](http://www.ijrit.com).
- [6] M. Kassim, R. A. Rahman, M. A. A. Aziz, A. Idris, and M. I. Yusof, “Performance analysis of VoIP over 3G and 4G LTE network,” *2017 Int. Conf. Electr. Electron. Syst. Eng. ICEESE 2017*, vol. 2018-Janua, pp. 37–41, 2017, doi: 10.1109/ICEESE.2017.8298391.
- [7] D. Niyato and E. Hossain, “A noncooperative game-theoretic framework for radio resource management in 4G heterogeneous wireless access networks,” *IEEE Trans. Mob. Comput.*, vol. 7, no. 3, pp. 332–345, 2008, doi: 10.1109/TMC.2007.70727.
- [8] R. R. Tanuhardja, S. Van De Beek, M. J. Bentum, and F. B. J. Leferink, “Vulnerability of Terrestrial-Trunked Radio to Intelligent Intentional

- Electromagnetic Interference,” *IEEE Trans. Electromagn. Compat.*, vol. 57, no. 3, pp. 454–460, 2015, doi: 10.1109/TEMC.2014.2385893.
- [9] S. Van De Beek and F. Leferink, “Robustness of a TETRA Base Station Receiver Against Intentional EMI,” *IEEE Trans. Electromagn. Compat.*, vol. 57, no. 3, pp. 461–469, 2015, doi: 10.1109/TEMC.2015.2406732.
- [10] “8. Sistem CDMA Revisi D - ART\_Ardreas Ardian Febrianto\_Sistem CDMA Revisi D\_Full text.pdf.” .
- [11] B. Van Berlo, A. Elkelany, T. Ozcelebi, and N. Meratnia, “Millimeter Wave Sensing: A Review of Application Pipelines and Building Blocks,” *IEEE Sens. J.*, vol. 21, no. 9, pp. 10332–10368, 2021, doi: 10.1109/JSEN.2021.3057450.
- [12] T. Wu, T. S. Rappaport, and C. M. Collins, “The human body and millimeter-wave wireless communication systems: Interactions and implications,” *IEEE Int. Conf. Commun.*, vol. 2015-Septe, pp. 2423–2429, 2015, doi: 10.1109/ICC.2015.7248688.
- [13] T. Turap, T. B. Merupakan, T. B. Lebih, and T. D. Turap, *No 主觀的健康感を中心とした在宅高齢者における 健康関連指標に関する共分散構造分析Title.* .
- [14] S. Ranjan Das, N. Mukherjee, B. P. Sinha ITER, and B. P. Sinha, “Strategies for Reducing Communication Latency in 6G Networks,” 2022, [Online]. Available: <https://doi.org/10.21203/rs.3.rs-2314943/v1>.
- [15] T. Tao, Y. Wang, D. Li, Y. Wan, P. Baracca, and A. Wang, “6G Hyper Reliable and Low-latency Communication - Requirement Analysis and Proof of Concept,” *IEEE Veh. Technol. Conf.*, no. October 2023, 2023, doi: 10.1109/VTC2023-Fall60731.2023.10333792.
- [16] W. Saad, M. Bennis, and M. Chen, “A Vision of 6G Wireless Systems: Applications, Trends, Technologies, and Open Research Problems,” *IEEE Netw.*, vol. 34, no. 3, pp. 134–142, 2020, doi: 10.1109/MNET.001.1900287.

- [17] T. Nakamura, “5G Evolution and 6G,” *Dig. Tech. Pap. - Symp. VLSI Technol.*, vol. 2020-June, pp. 3–7, 2020, doi: 10.1109/VLSITechnology18217.2020.9265094.
- [18] E. Ruth and others, “Deskripsi kualitas layanan jasa akses internet di Indonesia dari sudut pandang penyelenggara,” *Bul. Pos dan Telekomun.*, vol. 11, no. 2, pp. 137–146, 2013.
- [19] M. Elkourdi, A. Mazin, and R. D. Gitlin, “Towards Low Latency in 5G HetNets: A Bayesian Cell Selection/User Association Approach,” *IEEE 5G World Forum, 5GF 2018 - Conf. Proc.*, pp. 268–272, 2018, doi: 10.1109/5GF.2018.8517073.
- [20] G. Liu, Z. Sun, and T. Jiang, “Joint Time and Energy Allocation for QoS-Aware Throughput Maximization in MIMO-Based Wireless Powered Underground Sensor Networks,” *IEEE Trans. Commun.*, vol. 67, no. 2, pp. 1400–1412, 2019, doi: 10.1109/TCOMM.2018.2874990.
- [21] Balai Monitor Spektrum Frekuensi Radio Kelas 1 Semarang, “Intip Sejarah Perkembangan Telekomunikasi Seluler di Indonesia,” *Balai Monit. Spektrum Frekuensi Radio Semarang*, pp. 2023–2025, 2023, [Online]. Available: <https://balmonsemarang.postel.go.id/intip-sejarah-perkembangan-telekomunikasi-seluler-di-indonesia/>.
- [22] F. Tariq, M. R. A. Khandaker, K. K. Wong, M. A. Imran, M. Bennis, and M. Debbah, “A Speculative Study on 6G,” *IEEE Wirel. Commun.*, vol. 27, no. 4, pp. 118–125, 2020, doi: 10.1109/WMC.001.1900488.
- [23] Li Richard, “Network 2030 A Blueprint of Technology, Applications and Market Drivers Towards the Year 2030 and Beyond,” *Focus Gr. Technol. Netw. 2030*, no. July, 2020, [Online]. Available: [https://www.itu.int/en/ITU-T/focusgroups/net2030/Documents/White\\_Paper.pdf](https://www.itu.int/en/ITU-T/focusgroups/net2030/Documents/White_Paper.pdf).
- [24] S. Ferlin, T. Dreibholz, O. Alay, and A. Kvalbein, “Measuring the QoS characteristics of operational 3g mobile broadband networks,” *Proc. - 2014 IEEE 28th Int. Conf. Adv. Inf. Netw. Appl. Work. IEEE WAINA*

- 2014, pp. 753–758, 2014, doi: 10.1109/WAINA.2014.123.
- [25] L. Tanutama, R. Wijaya, H. Zakaria, and A. Dasandra, “Multi 3G service for broadband line,” *Proc. - 2016 6th Int. Annu. Eng. Semin. Ina. 2016*, pp. 107–111, 2017, doi: 10.1109/INAES.2016.7821916.
- [26] Y. Cho *et al.*, “Video streaming over 3G networks with GOP-based priority scheduling,” *Proc. - 2006 Int. Conf. Intell. Inf. Hiding Multimed. Signal Process. IIH-MSP 2006*, pp. 201–204, 2006, doi: 10.1109/IIH-MSP.2006.264980.
- [27] I. F. Akyildiz, W. Su, Y. Sankarasubramaniam, and E. Cayirci, “A CCEPTED FROM OPEN CALL A Survey on Sensor Networks,” *IEEE Commun. Mag.*, vol. 40, no. August, pp. 102–114, 2002, doi: 10.1109/MWC.2010.5416354.
- [28] C. Yue, R. Jin, K. Suh, Y. Qin, B. Wang, and W. Wei, “LinkForecast: Cellular Link Bandwidth Prediction in LTE Networks,” *IEEE Trans. Mob. Comput.*, vol. 17, no. 7, pp. 1582–1594, 2018, doi: 10.1109/TMC.2017.2756937.
- [29] I. Mahmud, T. Lubna, and Y. Z. Cho, “Performance Evaluation of MPTCP on Simultaneous Use of 5G and 4G Networks,” *Sensors*, vol. 22, no. 19, 2022, doi: 10.3390/s22197509.
- [30] A. Esmailpour and N. Nasser, “Dynamic QoS-based bandwidth allocation framework for broadband wireless networks,” *IEEE Trans. Veh. Technol.*, vol. 60, no. 6, pp. 2690–2700, 2011, doi: 10.1109/TVT.2011.2158674.
- [31] M. H. A. Ahmed, “Performance test of 4G (LTE) networks in Saudi Arabia,” *2013 Int. Conf. Technol. Adv. Electr. Electron. Comput. Eng. TAEECE 2013*, pp. 28–33, 2013, doi: 10.1109/TAEECE.2013.6557190.
- [32] M. A. Affandi, M. A. Riyadi, and T. Prakoso, “Throughput and Coverage Evaluation on The Use of Existing Cellular Towers for 5G Network in Surakarta City,” *J. Ilm. Tek. Elektro Komput. dan Inform.*, vol. 10, no. 1, p. 54, 2024, doi: 10.26555/jiteki.v10i1.27719.

- [33] A. Zaouga, A. De Sousa, M. Najjar, and P. P. Monteiro, “Dynamic bandwidth allocation algorithms for ng-pon2 to support 5g fronthaul services,” *Opt. InfoBase Conf. Pap.*, vol. Part F137-, pp. 1–4, 2019, doi: 10.1364/SPPCOM.2019.SpT1E.2.
- [34] H. Kim and K. Chung, “Multipath-Based HTTP Adaptive Streaming Scheme for the 5G Network,” *IEEE Access*, vol. 8, pp. 208809–208825, 2020, doi: 10.1109/ACCESS.2020.3038854.
- [35] J. Dike, J. N. Dike, A. G. Imoke, and S. Lecturer, “Comparative Performance Evaluation of 3G/4G Mobile Wireless Communication Networks in Selected High-Mobility Environments,” no. May, 2023, doi: 10.56726/IRJMETS36009.
- [36] T. Anwar and L. Wern Li, “Performance Analysis of 3G Communication Network,” *ITB J. Inf. Commun. Technol.*, vol. 2, no. 2, pp. 130–157, 2008, doi: 10.5614/itbj.ict.2008.2.2.4.
- [37] X. Wang, C. Xu, W. Jin, and G. Zhao, “A first look at cellular network latency in China,” *Lect. Notes Inst. Comput. Sci. Soc. Telecommun. Eng. LNICST*, vol. 209, pp. 339–348, 2018, doi: 10.1007/978-3-319-66625-9\_33.
- [38] A. T. Koc, S. C. Jha, R. Vannithamby, and M. Torlak, “Device power saving and latency optimization in LTE-a networks through DRX configuration,” *IEEE Trans. Wirel. Commun.*, vol. 13, no. 5, pp. 2614–2625, 2014, doi: 10.1109/TWC.2014.031914.131298.
- [39] Z. Amjad, A. Sikora, J. P. Lauffenburger, and B. Hilt, “Latency reduction in narrowband 4G LTE networks,” *Proc. Int. Symp. Wirel. Commun. Syst.*, vol. 2018-Augus, pp. 1–5, 2018, doi: 10.1109/ISWCS.2018.8491085.
- [40] R. Bakar, M. Ibrahim, and D. M. Ali, “Performance measurement of VoIP over WiMAX 4G network,” *Proc. - 2012 IEEE 8th Int. Colloq. Signal Process. Its Appl. CSPA 2012*, pp. 539–544, 2012, doi: 10.1109/CSPA.2012.6194788.

- [41] B. Coll-Perales *et al.*, “End-to-End V2X Latency Modeling and Analysis in 5G Networks,” *IEEE Trans. Veh. Technol.*, vol. 72, no. 4, pp. 5094–5109, 2023, doi: 10.1109/TVT.2022.3224614.
- [42] M. C. Lucas-Estan *et al.*, “An Analytical Latency Model and Evaluation of the Capacity of 5G NR to Support V2X Services Using V2N2V Communications,” *IEEE Trans. Veh. Technol.*, vol. 72, no. 2, pp. 2293–2306, 2023, doi: 10.1109/TVT.2022.3208306.
- [43] R. Schmidt, K. Emmerich, and B. Schmidt, “Entertainment Computing - ICEC 2015,” vol. 9353, no. November, 2015, doi: 10.1007/978-3-319-24589-8.
- [44] C. O. Alenoghena *et al.*, “Telemedicine: A Survey of Telecommunication Technologies, Developments, and Challenges,” *J. Sens. Actuator Networks*, vol. 12, no. 2, 2023, doi: 10.3390/jsan12020020.
- [45] T. Betz, P. Karle, F. Werner, and J. Betz, “An Analysis of Software Latency for a High-Speed Autonomous Race Car - A Case Study in the Indy Autonomous Challenge,” *SAE Int. J. Connect. Autom. Veh.*, vol. 6, no. 3, 2023, doi: 10.4271/12-06-03-0018.



