

REFERENCES

- [1] B. N. P. Bencana, *Pedoman Penyusunan Rencana Penanggulangan Bencana*. BNPB, 2008.
- [2] S. Hartinah, H. Prakoso, and K. Anwar, "Routing of Mobile Cognitive Radio Base Station for Disaster Recovery Networks," in *2018 International Conference on Electrical Engineering and Informatics (ICELTICs)*, Banda Aceh, Indonesia, 2018, pp. 1–6.
- [3] D. A. Sujiansyah, B. Syihabuddin, K. Anwar, and N. M. Adriansyah, "Antenna Design for Multi-generation 2G-5G for Rural Area Wireless Communications," in *2018 International Conference on ICT for Rural Development (IC-ICTRuDev)*, Bandung, Indonesia, 2018, pp. 7–11.
- [4] D. A. Sujiansyah, K. Anwar, and A. A. Pramudita, "Biconical Antenna for Mobile Base Station for Post Disaster Area Wireless Communications," in *2019 Symposium on Future Telecommunication Technologies (SOFTT)*, vol. 1, Kuala Lumpur, Malaysia, 2019, pp. 1–6.
- [5] A. Fitri, K. Anwar, and D. M. Saputri, "Simple Rateless Codes Based on 5G New Radio QC-LDPC Codes for Dynamic Networks," in *2019 IEEE International Conference on Signals and Systems (ICSigSys)*, Bandung, Indonesia, 2019, pp. 150–155.
- [6] X. Cai, A. Gonzalez-Plaza, D. Alonso, L. Zhang, C. B. Rodríguez, A. P. Yuste, and X. Yin, "Low Altitude UAV Propagation Channel Modelling," in *2017 11th European Conference on Antennas and Propagation (EUCAP)*, Paris, France, 2017, pp. 1443–1447.
- [7] M. M. X. L. Walid Saad, Mehdi Bennis, *Wireless Communications and Networking for Unmanned Aerial Vehicles*. Cambridge University Press, 2020.
- [8] M. P. R. Indonesia, *Peraturan Menteri Perhubungan Republik Indonesia Nomor PM 47 Tahun 2016*. Menteri Perhubungan RI, 2016.
- [9] T. Kobayashi, S. Seimiya, K. Harada, M. Noi, Z. Barker, G. K. Woodward, A. Willig, and R. Kohno, "Wireless Technologies to Assist Search and Localization of Victims of Wide-Scale Natural Disasters by Unmanned Aerial

- Vehicles,” in *2017 20th International Symposium on Wireless Personal Multimedia Communications (WPMC)*, Bali, Indonesia, 2017, pp. 404–410.
- [10] E. Arıkan, “Channel Polarization: A Method for Constructing Capacity-Achieving Codes for Symmetric Binary-Input Memoryless Channels,” *IEEE Transactions on Information Theory*, vol. 55, no. 7, pp. 3051–3073, 2009.
- [11] O. Gazi, *Polar Codes*, 1st ed., ser. Springer Topics in Signal Processing 15. Springer Singapore, 2019.
- [12] I. Tal and A. Vardy, “List decoding of polar codes,” *IEEE Transactions on Information Theory*, vol. 61, no. 5, pp. 2213–2226, 2015.
- [13] O. Dizdar, “A Complexity Reduction Method for Successive Cancellation List Decoding,” *IEEE Transactions on Circuits and Systems II: Express Briefs*, vol. 67, no. 4, pp. 655–659, 2020.
- [14] W. Li, L. Du, and Y. Chen, “Low-Complexity Successive Cancellation List Decoding for Polar Codes based on SPRT,” in *2019 28th Wireless and Optical Communications Conference (WOCC)*, Beijing, China, 2019, pp. 1–4.
- [15] F. Gabry, V. Bioglio, I. Land, and J.-C. Belfiore, “Multi-Kernel Construction of Polar Codes,” in *2017 IEEE International Conference on Communications Workshops (ICC Workshops)*, Paris, France, 2017, pp. 761–765.
- [16] M. Benammar, V. Bioglio, F. Gabry, and I. Land, “Multi-Kernel Polar Codes: Proof of Polarization and Error Exponents,” in *2017 IEEE Information Theory Workshop (ITW)*, 2017, pp. 101–105.
- [17] V. Bioglio, I. Land, F. Gabry, and J.-C. Belfiore, “Flexible Design of Multi-Kernel Polar Codes by Reliability and Distance Properties,” in *2018 IEEE 10th International Symposium on Turbo Codes Iterative Information Processing (ISTC)*, Hong Kong, China, 2018, pp. 1–5.
- [18] L. Cheng, W. Zhou, and L. Zhang, “Hybrid Multi-Kernel Construction of Polar Codes,” in *2019 IEEE 89th Vehicular Technology Conference (VTC2019-Spring)*, Kuala Lumpur, Malaysia, 2019, pp. 1–5.
- [19] O. R. Ludwiniananda, K. Anwar, and B. Syihabuddin, “Investigating Bhat-tacharyya Parameters for Short and Long Polar Codes in AWGN and Rayleigh Fading Channels,” in *International Conference on Islam, Science, and Technology (ICONISTECH)*, Bandung, Indonesia, 2019.

- [20] C. Yuan and C. Wu, "Polar Codes for Cooperative Unmanned Aerial Vehicle Communication Networks," in *2017 IEEE 17th International Conference on Communication Technology (ICCT)*, Chengdu, China, 2017, pp. 1186–1191.
- [21] T. K. Moon, *Error Correction Coding: Mathematical Methods and Algorithms*. Wiley-Interscience, 2005.
- [22] Y. Chen, G. Zhang, R. Li, X. Liu, H. Luo, H. Zhang, C. Xu, J. Wang, J. Wang, and Y. Zhou, "Investigation of polarization weight -an efficient construction for polar codes," in *2018 IEEE 87th Vehicular Technology Conference (VTC Spring)*, Porto, Portugal, 2018, pp. 1–5.
- [23] Y. Zhou, R. Li, H. Zhang, H. Luo, and J. Wang, "Polarization Weight Family Methods for Polar Code Construction," in *2018 IEEE 87th Vehicular Technology Conference (VTC Spring)*, Porto, Portugal, 2018, pp. 1–5.
- [24] H. Huawei, "Polar code Design and Rate Matching," 3GPP Patent R1-167 209, 2016.
- [25] K. D. Rao, *Channel Coding Techniques for Wireless Communications*, 2nd ed., ser. Forum for Interdisciplinary Mathematics. Springer Singapore, 2019.
- [26] T. Kandatsu and T. Saba, "Generator Matrix Based Puncturing in Polar Coding," in *2019 13th International Conference on Signal Processing and Communication Systems (ICSPCS)*, Gold Coast, QLD, Australia, 2019, pp. 1–5.
- [27] D. B. I. Lloyd N. Trefethen, *Numerical linear algebra*. Society for Industrial and Applied Mathematics, 1997.
- [28] E. Abbe and A. Barron, "Polar Coding Schemes for the AWGN Channel," in *2011 IEEE International Symposium on Information Theory Proceedings*, St. Petersburg, Russia, 2011, pp. 194–198.
- [29] A. Bravo-Santos, "Polar Codes for the Rayleigh Fading Channel," *IEEE Communications Letters*, vol. 17, no. 12, pp. 2352–2355, 2013.
- [30] L. Zhang, Z. Zhang, and X. Wang, "Polar code with block-length $n = 3n$," in *2012 International Conference on Wireless Communications and Signal Processing (WCSP)*, Huangshan, China, 2012, pp. 1–6.