

Bibliography

- [1] Z. Shi, W. Gao, S. Zhang, J. Liu, and N. Kato, "Machine learning-enabled cooperative spectrum sensing for non-orthogonal multiple access," *IEEE Transactions on Wireless Communications*, vol. 19, no. 9, pp. 5692–5702, 2020.
- [2] J. Luo, J. Tang, D. K. So, G. Chen, K. Cumanan, and J. A. Chambers, "A deep learning-based approach to power minimization in multi-carrier noma with swipt," *IEEE Access*, vol. 7, pp. 17450–17460, 2019.
- [3] J. Cui, Z. Ding, and P. Fan, "The application of machine learning in mmwave-noma systems," in *2018 IEEE 87th Vehicular Technology Conference (VTC Spring)*, pp. 1–6, IEEE, 2018.
- [4] S. R. Islam, N. Avazov, O. A. Dobre, and K.-S. Kwak, "Power-domain non-orthogonal multiple access (noma) in 5g systems: Potentials and challenges," *IEEE Communications Surveys & Tutorials*, vol. 19, no. 2, pp. 721–742, 2016.
- [5] L. Dai, B. Wang, Y. Yuan, S. Han, I. Chih-Lin, and Z. Wang, "Non-orthogonal multiple access for 5g: solutions, challenges, opportunities, and future research trends," *IEEE Communications Magazine*, vol. 53, no. 9, pp. 74–81, 2015.
- [6] K. Anwar and T. Matsumoto, "Iterative spatial demapping for two correlated sources with power control over fading mac," in *2012 IEEE 75th Vehicular Technology Conference (VTC Spring)*, pp. 1–7, IEEE, 2012.
- [7] Z. Li, W. Wu, X. Liu, and P. Qi, "Improved cooperative spectrum sensing model based on machine learning for cognitive radio networks," *IET Communications*, vol. 12, no. 19, pp. 2485–2492, 2018.

- [8] C. Zhang, P. Patras, and H. Haddadi, “Deep learning in mobile and wireless networking: A survey,” *IEEE Communications surveys & tutorials*, vol. 21, no. 3, pp. 2224–2287, 2019.
- [9] A. Shrestha and A. Mahmood, “Review of deep learning algorithms and architectures,” *IEEE access*, vol. 7, pp. 53040–53065, 2019.
- [10] S. A. H. Mohsan, Y. Li, A. V. Shvetsov, J. Varela-Aldás, S. M. Mostafa, and A. Elfikky, “A survey of deep learning based noma: State of the art, key aspects, open challenges and future trends,” *Sensors*, vol. 23, no. 6, p. 2946, 2023.
- [11] A. Emir, F. Kara, H. Kaya, and H. Yanikomeroglu, “Deepmud: Multi-user detection for uplink grant-free noma iot networks via deep learning,” *IEEE Wireless Communications Letters*, vol. 10, no. 5, pp. 1133–1137, 2021.
- [12] N. Ye, X. Li, H. Yu, L. Zhao, W. Liu, and X. Hou, “Deepnoma: A unified framework for noma using deep multi-task learning,” *IEEE Transactions on Wireless Communications*, vol. 19, no. 4, pp. 2208–2225, 2020.
- [13] H. Mathur and T. Deepa, “A survey on advanced multiple access techniques for 5g and beyond wireless communications,” *Wireless Personal Communications*, vol. 118, no. 2, pp. 1775–1792, 2021.
- [14] Y. Wu, X. Gao, S. Zhou, W. Yang, Y. Polyanskiy, and G. Caire, “Massive access for future wireless communication systems,” *IEEE Wireless Communications*, vol. 27, no. 4, pp. 148–156, 2020.
- [15] V. Andiappan and V. Ponnusamy, “Deep learning enhanced noma system: A survey on future scope and challenges,” *Wireless Personal Communications*, vol. 123, no. 1, pp. 839–877, 2022.
- [16] L. Dai, B. Wang, Z. Ding, Z. Wang, S. Chen, and L. Hanzo, “A survey of non-orthogonal multiple access for 5g,” *IEEE communications surveys & tutorials*, vol. 20, no. 3, pp. 2294–2323, 2018.
- [17] A. Ahmed, Z. Elsaraf, F. A. Khan, and Q. Z. Ahmed, “Cooperative non-orthogonal

- multiple access for beyond 5g networks,” *IEEE Open Journal of the Communications Society*, vol. 2, pp. 990–999, 2021.
- [18] X. Su, H. Yu, W. Kim, C. Choi, and D. Choi, “Interference cancellation for non-orthogonal multiple access used in future wireless mobile networks,” *EURASIP Journal on Wireless Communications and Networking*, vol. 2016, no. 1, pp. 1–12, 2016.
- [19] K. Higuchi and A. Benjebbour, “Non-orthogonal multiple access (noma) with successive interference cancellation for future radio access,” *IEICE Transactions on Communications*, vol. 98, no. 3, pp. 403–414, 2015.
- [20] M. Mounir, M. B. El_Mashade, and A. Mohamed Aboshosha, “On the selection of power allocation strategy in power domain non-orthogonal multiple access (pd-noma) for 6g and beyond,” *Transactions on Emerging Telecommunications Technologies*, vol. 33, no. 6, p. e4289, 2022.
- [21] M. Rebhi, K. Hassan, K. Raoof, and P. Chargé, “Sparse code multiple access: Potentials and challenges,” *IEEE Open Journal of the Communications Society*, vol. 2, pp. 1205–1238, 2021.
- [22] C.-P. Wei, H. Yang, C.-P. Li, and Y.-M. Chen, “Scma decoding via deep learning,” *IEEE Wireless Communications Letters*, vol. 10, no. 4, pp. 878–881, 2020.
- [23] Q. Luo, P. Gao, Z. Liu, L. Xiao, Z. Mheich, P. Xiao, and A. Maaref, “An error rate comparison of power domain non-orthogonal multiple access and sparse code multiple access,” *IEEE Open Journal of the Communications Society*, vol. 2, pp. 500–511, 2021.
- [24] H. Nikopour and H. Baligh, “Sparse code multiple access,” in *2013 IEEE 24th Annual International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC)*, pp. 332–336, IEEE, 2013.
- [25] P. J. D. Torres and S. M. N. Malhão, “Practical implementation of repetition codes,” *International Journal*, no. 4, p. 215, 2018.

- [26] D. Juniarto, K. Anwar, and D. Arseno, "Communication system for high speed flying devices with repetition codes," *Journal of Measurements, Electronics, Communication, and Systems (JMECS)*, 2020.
- [27] K. Sushmaja and F. Noorbasha, "Implementation of binary shift keying techniques," *Int. J. Eng. Trends Technol.(IJETT)*, vol. 4, no. 6, 2013.
- [28] L. Batina, B. Gierlichs, E. Prouff, M. Rivain, F.-X. Standaert, and N. Veyrat-Charvillon, "Mutual information analysis: a comprehensive study," *Journal of Cryptology*, vol. 24, no. 2, pp. 269–291, 2011.
- [29] C. B. Do, "The multivariate gaussian distribution," *Section Notes, Lecture on Machine Learning, CS*, vol. 229, 2008.
- [30] J. D. Kelleher, *Deep learning*. MIT press, 2019.
- [31] L. Alzubaidi, J. Zhang, A. J. Humaidi, A. Al-Dujaili, Y. Duan, O. Al-Shamma, J. Santamaría, M. A. Fadhel, M. Al-Amidie, and L. Farhan, "Review of deep learning: Concepts, cnn architectures, challenges, applications, future directions," *Journal of big Data*, vol. 8, no. 1, pp. 1–74, 2021.
- [32] Y. LeCun, Y. Bengio, and G. Hinton, "Deep learning," *nature*, vol. 521, no. 7553, pp. 436–444, 2015.
- [33] A. D. Rasamoelina, F. Adjailia, and P. Sinčák, "A review of activation function for artificial neural network," in *2020 IEEE 18th World Symposium on Applied Machine Intelligence and Informatics (SAMI)*, pp. 281–286, IEEE, 2020.
- [34] A. Kagalkar and S. Raghuram, "Cordic based implementation of the softmax activation function," in *2020 24th International Symposium on VLSI Design and Test (VDATE)*, pp. 1–4, IEEE, 2020.
- [35] C.-H. Chen, P.-H. Lin, J.-G. Hsieh, S.-L. Cheng, and J.-H. Jeng, "Robust multi-class classification using linearly scored categorical cross-entropy," in *2020 3rd IEEE International Conference on Knowledge Innovation and Invention (ICKII)*, pp. 200–203, IEEE, 2020.

- [36] D. P. Kingma and J. Ba, “Adam: A method for stochastic optimization,” *arXiv preprint arXiv:1412.6980*, 2014.