

- [23] K. Venkateswararao and P. Swain, "Binary-PSO-based energy-efficient small cell deployment in 5G ultra-dense network," *The Journal of Supercomputing*, vol. 78, no. 1, pp. 1071–1092, 2022.
- [24] J. Yang, W. Wang, and X. Zhang, "Hysteretic base station sleeping control for energy saving in 5g cellular network," in *Proc. 2017 IEEE 85th Vehicular Technology Conference (VTC Spring)*, 2017, pp. 1–5.
- [25] X. Huang, S. Tang, Q. Zheng, D. Zhang, and Q. Chen, "Dynamic femtocell gNB on/off strategies and seamless dual connectivity in 5G heterogeneous cellular networks," *IEEE Access*, vol. 6, pp. 21359–21368, 2018.
- [26] Y. Deng, Z. Zeng, K. Jha, and D. Huang, "Problem-based cybersecurity lab with knowledge graph as guidance," *Journal of Artificial Intelligence and Technology*, vol. 2, no. 2, pp. 55–61, 2022.
- [27] P. Lin, K. Ye, and C. Xu, "Dynamic network anomaly detection system by using deep learning techniques," *Lecture Notes in Computer Science*, vol. 11513, 2019.
- [28] S. Namasudra, P. Lorenz, and U. Ghosh, "Editorial: The new era of computer network by using machine learning," *Mobile Netw. Appl.*, vol. 28, pp. 764–766, 2023.
- [29] R. Khamkar, P. Das, and S. Namasudra, "SCEOMOO: A novel subspace clustering approach using evolutionary algorithm, off-spring generation and multi-objective optimization," *Applied Soft Computing*, vol. 139, 110185, 2023.
- [30] S. Namasudra, S. Nath, and A. Majumder, "Profile based access control model in cloud computing environment," in *Proc. 2014 International Conference on Green Computing Communication and Electrical Engineering (ICGCCEE)*, Coimbatore, India, 2014, pp. 1–5.
- [31] Y. S. Soh, T. Q. S. Quek, and M. Kountouris, "Dynamic sleep mode strategies in energy efficient cellular networks," in *Proc. IEEE International Conference on Communications (ICC)*, Budapest, Hungary, 2013, pp. 3131–3136.
- [32] L. Chen, Z. Chen, Y. Zhang *et al.*, "Artificial intelligence-based solutions for climate change: A review," *Environmental Chemistry Letters*, 2023.
- [33] C. Liu, Y. Wan, L. Tian, Y. Zhou, and J. Shi, "Base station sleeping control with energy-stability tradeoff in centralized radio access networks," *IEEE Global Communications Conference (GLOBECOM)*, San Diego, CA, USA, 2015, pp. 1–6.
- [34] Z. Liu, J. Wu, Y. Yuan *et al.*, "Robust power control for 5G small cell networks with sleep strategy," *Wireless Personal Communications*, vol. 116, pp. 2205–2222, 2021.

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