

- [10] Nanda SJ, Garg S. Design of supervised and blind channel equalizer based on moth-flame optimization. *Journal of The Institution of Engineers (India): Series B*. 2019 Apr;100(2):105-15.
- [11] Dörner S, Cammerer S, Hoydis J, Ten Brink S. Deep learning based communication over the air. *IEEE Journal of Selected Topics in Signal Processing*. 2017 Dec 15;12(1):132-43.
- [12] O'Shea TJ, Roy T, West N. Approximating the void: Learning stochastic channel models from observation with variational generative adversarial networks. In 2019 International Conference on Computing, Networking and Communications (ICNC) 2019 Feb 18 (pp. 681-686). IEEE.
- [13] Ye H, Li GY, Juang BH, Sivanesan K. Channel agnostic end-to-end learning based communication systems with conditional GAN. In 2018 IEEE Globecom Workshops (GC Wkshps) 2018 Dec 9 (pp. 1-5). IEEE.
- [14] Ye H, Li GY, Juang BH. Power of deep learning for channel estimation and signal detection in OFDM systems. *IEEE Wireless Communications Letters*. 2017 Sep 28;7(1):114-7.
- [15] He H, Wen CK, Jin S, Li GY. Deep learning-based channel estimation for beamspace mmWave massive MIMO systems. *IEEE Wireless Communications Letters*. 2018 May 1;7(5):852-5.
- [16] Fu Q, Song A. Adaptive modulation for underwater acoustic communications based on reinforcement learning. In OCEANS 2018 MTS/IEEE Charleston 2018 Oct 22 (pp. 1-8). IEEE.
- [17] Lin CJ, Chen CH. Nonlinear system control using self-evolving neural fuzzy inference networks with reinforcement evolutionary learning. *Applied Soft Computing*. 2011 Dec 1;11(8):5463-76.
- [18] Ye H, Li GY, Juang BH. Power of deep learning for channel estimation and signal detection in OFDM systems. *IEEE Wireless Communications Letters*. 2017 Sep 28;7(1):114-7.
- [19] Bai C, Ren HP, Kolumbán G. Double-sub-stream M-ary differential chaos shift keying wireless communication system using chaotic shape-forming filter. *IEEE Transactions on Circuits and Systems I: Regular Papers*. 2020 May 22;67(10):3574-87.
- [20] Cheng X, Liu D, Wang C, Yan S, Zhu Z. Deep learning-based channel estimation and equalization scheme for FBMC/OQAM systems. *IEEE Wireless Communications Letters*. 2019 Feb 8;8(3):881-4.
- [21] Katwal S, Bhatia V. Optimized BER for channel equalizer using cuckoo search and neural network. *International Journal of Electrical & Computer Engineering (2088-8708)*. 2020 Jun 15;10(3).
- [22] Majumder S, Giri MK. Nonlinear channel equalization using wavelet neural network trained using PSO. In Proceedings of the International Conference on Advances in Electronics, Electrical & Computational Intelligence (ICAEEC) 2019 Apr 10.
- [23] Zhang L, Yang LL. Machine learning for joint channel equalization and signal detection. *Machine Learning for Future Wireless Communications*. 2020 Feb 3:213-41.
- [24] Ji X, Wang J, Li Y, Sun Q, Xu C. Modulation recognition in maritime multipath channels: A blind equalization-aided deep learning approach. *China Communications*. 2020 Apr 7;17(3):12-25.
- [25] Sharma S, Singh G. Diagnosis of cardiac arrhythmia using Swarm-intelligence based Metaheuristic Techniques: A comparative analysis. *EAI Endorsed Transactions on Pervasive Health and Technology*. 2020;6(23).
- [26] Arora S, Sharma M, Anand P. A novel chaotic interior search algorithm for global optimization and feature selection. *Applied Artificial Intelligence*. 2020 Mar 20;34(4):292-328.
- [27] Kaur P, Sharma M. Analysis of data mining and soft computing techniques in prospecting diabetes disorder in human beings: a review. *Int. J. Pharm. Sci. Res*. 2018 Jul 1;9:2700-19.
- [28] Das G, Panda S, Padhy SK. Quantum particle swarm optimization tuned artificial neural network equalizer. In *Soft Computing: Theories and Applications 2018* (pp. 579-585). Springer, Singapore.
- [29] Sarangi A, Sarangi SK, Panigrahi SP. Adaptive Channel Equalization Using Decision Directed and Dispersion Minimizing Equalizers Trained by Variable Step Size Firefly Algorithm. In *Intelligent Engineering Informatics 2018* (pp. 301-310). Springer, Singapore.
- [30] Diana DC, SP JV. Novel cat swarm optimization algorithm to enhance channel equalization. *COMPEL-The international journal for computation and mathematics in electrical and electronic engineering*. 2017 Jan 3.
- [31] Mirjalili S, Lewis A. The whale optimization algorithm. *Advances in engineering software*. 2016 May 1;95:51-67.
- [32] Gharehchopogh FS, Gholizadeh H. A comprehensive survey: Whale Optimization Algorithm and its applications. *Swarm and Evolutionary Computation*. 2019 Aug 1;48:1-24.
- [33] Pham QV, Nguyen DC, Mirjalili S, Hoang DT, Nguyen DN, Pathirana PN, Hwang WJ. Swarm intelligence for next-generation networks: Recent advances and applications. *Journal of Network and Computer Applications*. 2021 Jun 24:103141.
- [34] Kiumarsi B, Vamvoudakis KG, Modares H, Lewis FL. Optimal and autonomous control using reinforcement learning: A survey. *IEEE transactions on neural networks and learning systems*. 2017 Dec 7;29(6):2042-62.
- [35] Sutton, R.S. and Barto, A.G., 2018. Reinforcement learning: An introduction. MIT press.
- [36] Watkins CJ, Dayan P. \cal Q-Learning. *Machine Learning*. 1992;8(3-4):279-92.
- [37] Dirani M, Altman Z, Salaun M. 'Autonomics in radio access networks. *Autonomic Network Management Principles: From Concepts to Applications*. 2010 Dec 3:141-66.
- [38] Niu H, Bhowmick C, Jagannathan S. Attack Detection and Estimation for Cyber-Physical Systems by Using Learning Methodology. In *Artificial Neural Networks for Engineering Applications 2019* Jan 1 (pp. 107-126). Academic Press.
- [39] Wang Z, Shi Z, Li Y, Tu J. The optimization of path planning for multi-robot system using Boltzmann Policy based Q-learning algorithm. In 2013 IEEE international conference on robotics and biomimetics (ROBIO) 2013 Dec 12 (pp. 1199-1204). IEEE.
- [40] Yan J, He H, Zhong X, Tang Y. Q-learning-based vulnerability analysis of smart grid against sequential topology attacks. *IEEE Transactions on Information Forensics and Security*. 2016 Sep 8;12(1):200-10.
- [41] Godard D. Channel equalization using a Kalman filter for fast data transmission. *IBM journal of Research and Development*. 1974 May;18(3):267-73.
- [42] Bai C, Ren HP, Grebogi C. Experimental phase separation differential chaos shift keying wireless communication based on matched filter. *IEEE Access*. 2019 Feb 26;7:25274-87.
- [43] Dawa M, Kaddoum G, Hecceg M. A framework for the lower bound on the BER of DCSK systems over multi-path Nakagami-m fading channels. *IEEE Transactions on Circuits and Systems II: Express Briefs*. 2019 Nov 1;67(10):1859-63.

- [44] Assaf T, Al-Dweik A, El Moursi M, Zeineldin H. Exact BER performance analysis for downlink NOMA systems over Nakagami- m fading channels. IEEE Access. 2019 Sep 18;7:134539-134555.