

Daftar Pustaka

- [1] M. Aditya, A. Aditsania, and I. Kurniawan, "Implementation of the Grey Wolf Algorithm in Optimization of Artificial Neural Network Method for Fingerprint-Based Toxicity Prediction," Sep. 2023, pp. 109–114. doi: 10.1109/IC2IE60547.2023.10331599.
- [2] A. H. Vo, T. R. Van Vleet, R. R. Gupta, M. J. Liguori, and M. S. Rao, "An Overview of Machine Learning and Big Data for Drug Toxicity Evaluation," *Chem. Res. Toxicol.*, vol. 33, no. 1, pp. 20–37, Jan. 2020, doi: 10.1021/acs.chemrestox.9b00227.
- [3] Y. Cong *et al.*, "Drug Toxicity Evaluation Based on Organ-on-a-chip Technology: A Review," *Micromachines*, vol. 11, no. 4, Art. no. 4, Apr. 2020, doi: 10.3390/mi11040381.
- [4] S. Ahmad, J. Lee, C. Jung, and D. Na, "In silico methods and tools for drug discovery," *Computers in Biology and Medicine*, vol. 137, p. 104851, Oct. 2021, doi: 10.1016/j.compbimed.2021.104851.
- [5] A. Blanco-González *et al.*, "The Role of AI in Drug Discovery: Challenges, Opportunities, and Strategies," *Pharmaceuticals*, vol. 16, no. 6, Art. no. 6, Jun. 2023, doi: 10.3390/ph16060891.
- [6] B. Cabarro *et al.*, "Modernizing adverse events analysis in oncology clinical trials using alternative approaches: rationale and design of the MOTIVATE trial," *Invest New Drugs*, vol. 38, no. 6, pp. 1879–1887, Dec. 2020, doi: 10.1007/s10637-020-00938-x.
- [7] S. Imai *et al.*, "Validation of the usefulness of artificial neural networks for risk prediction of adverse drug reactions used for individual patients in clinical practice," *PLoS One*, vol. 15, no. 7, p. e0236789, 2020, doi: 10.1371/journal.pone.0236789.
- [8] K.-Z. Myint, L. Wang, Q. Tong, and X.-Q. Xie, "Molecular Fingerprint-based Artificial Neural Networks QSAR for Ligand Biological Activity Predictions," *Molecular pharmaceuticals*, vol. 9, no. 10, p. 2912, Oct. 2012, doi: 10.1021/mp300237z.
- [9] D. Fan *et al.*, "In silico prediction of chemical genotoxicity using machine learning methods and structural alerts †Electronic supplementary information (ESI) available. See DOI: 10.1039/c7tx00259a," *Toxicol Res (Camb)*, vol. 7, no. 2, pp. 211–220, Dec. 2017, doi: 10.1039/c7tx00259a.
- [10] H. Feng *et al.*, "Predicting the reproductive toxicity of chemicals using ensemble learning methods and molecular fingerprints," *Toxicology Letters*, vol. 340, pp. 4–14, Apr. 2021, doi: 10.1016/j.toxlet.2021.01.002.
- [11] Q. Yuan *et al.*, "Toxicity Prediction Method Based on Multi-Channel Convolutional Neural Network," *Molecules*, vol. 24, no. 18, Art. no. 18, Jan. 2019, doi: 10.3390/molecules24183383.
- [12] X. Xu *et al.*, "In silico prediction of chemical acute contact toxicity on honey bees via machine learning methods," *Toxicology in Vitro*, vol. 72, p. 105089, Jan. 2021, doi: 10.1016/j.tiv.2021.105089.
- [13] S. Mirjalili, S. M. Mirjalili, and A. Lewis, "Grey Wolf Optimizer," *Advances in Engineering Software*, vol. 69, pp. 46–61, Mar. 2014, doi: 10.1016/j.advengsoft.2013.12.007.
- [14] S. Mirjalili, "How effective is the Grey Wolf optimizer in training multi-layer perceptrons," *Appl Intell*, vol. 43, no. 1, pp. 150–161, Jul. 2015, doi: 10.1007/s10489-014-0645-7.
- [15] S. Walczak and S. Walczak, "Artificial Neural Networks," <https://services.igi-global.com/resolvedoi/resolve.aspx?doi=10.4018/978-1-5225-7368-5.ch004>. Accessed: Apr. 25, 2024. [Online]. Available: <https://www.igi-global.com/gateway/chapter/www.igi-global.com/gateway/chapter/213116>
- [16] and, and, and, "Advantages of Artificial Neural Network in Neutron Spectra Unfolding," *Chinese Phys. Lett.*, vol. 31, no. 7, p. 072901, Jul. 2014, doi: 10.1088/0256-307X/31/7/072901.
- [17] P. Lan, K. Xia, Y. Pan, and S. Fan, "An Improved GWO Algorithm Optimized RVFL Model for Oil Layer Prediction," *Electronics*, vol. 10, no. 24, Art. no. 24, Jan. 2021, doi: 10.3390/electronics10243178.
- [18] R. R. Rizwandy, A. Aditsania, and I. Kurniawan, "Cuckoo Search-Driven Optimization of Artificial Neural Networks for Accurate Fingerprint-Based Toxicity Prediction," in *2023 International Conference on Artificial Intelligence, Blockchain, Cloud Computing, and Data Analytics (ICoABCD)*, Nov. 2023, pp. 112–117. doi: 10.1109/ICoABCD59879.2023.10390946.
- [19] P. Niu, S. Niu, N. Liu, and L. Chang, "The defect of the Grey Wolf optimization algorithm and its verification method," *Knowledge-Based Systems*, vol. 171, pp. 37–43, May 2019, doi: 10.1016/j.knosys.2019.01.018.
- [20] M. C. Demirel, M. J. Booij, and E. Kahya, "Validation of an ANN Flow Prediction Model Using a Multistation Cluster Analysis," *Journal of Hydrologic Engineering*, vol. 17, no. 2, pp. 262–271, Feb. 2012, doi: 10.1061/(ASCE)HE.1943-5584.0000426.
- [21] I. N. da Silva, D. H. Spatti, R. A. Flauzino, L. H. B. Liboni, and S. F. dos R. Alves, *Artificial Neural Networks: A Practical Course*. Springer, 2016.
- [22] "AACT Database | Clinical Trials Transformation Initiative." Accessed: Dec. 14, 2024. [Online]. Available: <https://aact.ctti-clinicaltrials.org/>