

Daftar Pustaka

- [1] A. D. ASSOCIATION, "Diagnosis and Classification of Diabetes Mellitus," *Diabetes Care*, 2004.
- [2] American Diabetes Association, "American Diabetes Association Guidelines 2015," *Clin. Diabetes*, vol. 33, no. 2, pp. 97–111, 2015.
- [3] S. Anazawa, "Gestational diabetes mellitus," *Nihon Rinsho.*, vol. 73, no. 12, pp. 2015–2021, 2015.
- [4] B. D. Green, P. R. Flatt, and C. J. Bailey, "Dipeptidyl peptidase IV (DPP IV) inhibitors: A newly emerging drug class for the treatment of type 2 diabetes," *Diabetes Vasc. Dis. Res.*, vol. 3, no. 3, pp. 159–165, 2006.
- [5] D. Kirpichnikov, S. I. Mcfarlane, and J. R. Sowers, "Metformin: An Update CLINICAL ROLE OF METFORMIN," no. 24, 2002.
- [6] E. Kristin, "Dipeptidyl Peptidase 4 (Dpp-4) Inhibitors for the Treatment of Type 2 Diabetes Mellitus," *J. thee Med. Sci. (Berkala Ilmu Kedokteran)*, vol. 48, no. 02, pp. 119–130, 2016.
- [7] J. J. Holst and C. F. Deacon, "Inhibition of the activity of dipeptidyl-peptidase IV as a treatment for type 2 diabetes," *Diabetes*. 1998.
- [8] P. R. Flatt, C. J. Bailey, and B. D. Green, "Dipeptidyl peptidase IV (DPP IV) and related molecules in type 2 diabetes," *Frontiers in Bioscience*. 2008.
- [9] C. F. Deacon, "Diabetes : a Comparative Review," *Diabetes, Obes. Metab.*, vol. 13, no. 7, pp. 7–18, 2011.
- [10] X. Yang, M. Li, Q. Su, M. Wu, T. Gu, and W. Lu, "QSAR studies on pyrrolidine amides derivatives as DPP-IV inhibitors for type 2 diabetes," *Med. Chem. Res.*, vol. 22, no. 11, pp. 5274–5283, 2013.
- [11] E. Estrada, "On the topological sub-structural molecular design (TOSS-MODE) in QSPR/QSAR and drug design research.," *SAR QSAR Environ. Res.*, vol. 11, no. 1, pp. 55–73, 2000.
- [12] A. M. Al-Fakih, Z. Y. Algamal, M. H. Lee, M. Aziz, and H. T. M. Ali, "A QSAR model for predicting antidiabetic activity of dipeptidyl peptidase-IV inhibitors by enhanced binary gravitational search algorithm," *SAR QSAR Environ. Res.*, vol. 30, no. 6, pp. 403–416, 2019.
- [13] M. C. Sharma, S. Jain, and R. Sharma, "Trifluorophenyl-based inhibitors of dipeptidyl peptidase-IV as antidiabetic agents: 3D-QSAR COMFA, CoMSIA methodologies," *Netw. Model. Anal. Heal. Informatics Bioinforma.*, vol. 7, no. 1, pp. 1–16, 2018.
- [14] C. Jiang, S. Han, T. Chen, and J. Chen, "3D-QSAR and docking studies of arylmethylamine-based DPP IV inhibitors," *Acta Pharm. Sin. B*, vol. 2, no. 4, pp. 411–420, 2012.
- [15] B. D. Patel and M. D. Ghate, "3D-QSAR studies of dipeptidyl peptidase-4 inhibitors using various alignment methods," *Med. Chem. Res.*, vol. 24, no. 3, pp. 1060–1069, 2015.
- [16] U. Saqib and M. I. Siddiqi, "3D-QSAR studies on triazolopiperazine amide inhibitors of dipeptidyl peptidase-IV as anti-diabetic agents," *SAR QSAR Environ. Res.*, vol. 20, no. 5–6, pp. 519–535, 2009.
- [17] Z. Wang, G. L. Durst, R. C. Eberhart, D. B. Boyd, and Z. Ben Miled, "Particle swarm optimization and neural network application for QSAR," *Proc. - Int. Parallel Distrib. Process. Symp. IPDPS 2004 (Abstracts CD-ROM)*, vol. 18, no. C, pp. 2717–2724, 2004.
- [18] H. Nguyen, "Support vector regression approach with different kernel functions for predicting blast-induced ground vibration: a case study in an open-pit coal mine of Vietnam," *SN Appl. Sci.*, vol. 1, no. 4, 2019.
- [19] I. Kurniawan, D. Tarwidi, and Jondri, "QSAR modeling of PTP1B inhibitor by using Genetic algorithm-Neural network methods," *J. Phys. Conf. Ser.*, vol. 1192, no. 1, 2019.
- [20] J. Benesty, J. Chen, and Y. Huang, "On the importance of the pearson correlation coefficient in noise reduction," *IEEE Trans. Audio, Speech Lang. Process.*, vol. 16, no. 4, pp. 757–765, 2008.
- [21] I. Kurniawan, M. Rosalinda, and N. Ikhsan, "Implementation of ensemble methods on QSAR Study of NS3 inhibitor activity as anti-dengue agent," *SAR QSAR Environ. Res.*, vol. 31, no. 6, pp. 477–492, 2020.
- [22] M. Zamani, M. Karimi-Ghartemani, N. Sadati, and M. Parniani, "Design of a fractional order PID controller for an AVR using particle swarm optimization," *Control Eng. Pract.*, vol. 17, no. 12, pp. 1380–1387, 2009.
- [23] Y. Zhang, S. Balochian, P. Agarwal, V. Bhatnagar, and O. J. Housheya, "Artificial Intelligence and Its Applications 2014," *Math. Probl. Eng.*, vol. 2016, 2016.
- [24] Y. Zhang, S. Wang, and G. Ji, "A Comprehensive Survey on Particle Swarm Optimization Algorithm and Its Applications," *Math. Probl. Eng.*, vol. 2015, 2015.
- [25] N. H. Farhat, "Photonit neural networks and learning mathines the role of electron-trapping materials," *IEEE Expert. Syst. their Appl.*, vol. 7, no. 5, pp. 63–72, 1992.
- [26] S. Shamsirband *et al.*, "Support vector regression methodology for wind turbine reaction torque

- prediction with power-split hydrostatic continuous variable transmission,” *Energy*, vol. 67, pp. 623–630, 2014.
- [27] P. Sihag, P. Jain, and M. Kumar, “Modelling of impact of water quality on recharging rate of storm water filter system using various kernel function based regression,” *Model. Earth Syst. Environ.*, vol. 4, no. 1, pp. 61–68, 2018.
- [28] F. Wang, Z. Zhen, B. Wang, and Z. Mi, “Comparative study on KNN and SVM based weather classification models for day ahead short term solar PV power forecasting,” *Appl. Sci.*, vol. 8, no. 1, 2017.
- [29] S. Xu, B. Lu, M. Baldea, T. F. Edgar, and M. Nixon, “An improved variable selection method for support vector regression in NIR spectral modeling,” *J. Process Control*, vol. 67, pp. 83–93, 2018.
- [30] Z. Zhong and T. R. Carr, “Application of mixed kernels function (MKF) based support vector regression model (SVR) for CO₂ – Reservoir oil minimum miscibility pressure prediction,” *Fuel*, vol. 184, pp. 590–603, 2016.
- [31] I. A. Budiastuti, S. M. S. Nugroho, and M. Hariadi, “Predicting daily consumer price index using support vector regression method,” *QiR 2017 - 2017 15th Int. Conf. Qual. Res. Int. Symp. Electr. Comput. Eng.*, vol. 2017-Decem, pp. 23–28, 2017.
- [32] K. Roy and I. Mitra, “On Various Metrics Used for Validation of Predictive QSAR Models with Applications in Virtual Screening and Focused Library Design,” *Comb. Chem. High Throughput Screen.*, vol. 14, no. 6, pp. 450–474, 2011.
- [33] B. Sepehri and R. Ghavami, “Design of new CD38 inhibitors based on CoMFA modelling and molecular docking analysis of 4-amino-8-quinoline carboxamides and 2,4-diamino-8-quinazoline carboxamides,” *SAR QSAR Environ. Res.*, vol. 30, no. 1, pp. 21–38, 2019.
- [34] G. Schüürmann, R. U. Ebert, J. Chen, B. Wang, and R. Kühne, “External validation and prediction employing the predictive squared correlation coefficient - Test set activity mean vs training set activity mean,” *J. Chem. Inf. Model.*, vol. 48, no. 11, pp. 2140–2145, 2008.