

## DAFTAR PUSTAKA

- [1] M. Mohri, A. Rostamizadeh, and A. Talwalkar, *Foundations of Machine Learning*, MIT Press, 2018.
- [2] A. E. Ezugwu *et al.*, "A comprehensive survey of clustering algorithms: State-of-the-art machine learning applications, taxonomy, challenges, and future research prospects," *Eng. Appl. of Artif. Intell.*, vol. 110, 2022.
- [3] S. Ingrassia, J. Jacques, and W. Yao, "Special Issue on 'Models and Learning for Clustering Classification,'" *Advanc. in Data Anal. and Classif.*, vol. 16, pp. 231–234, 2022.
- [4] G. J. Oyewole and G. A. Thopil, "Data clustering: Application and trends," *Artif. Intell. Review*, vol. 56, pp. 6439–6475, 2022.
- [5] B. S. Everitt, S. Landau, M. Leese, and D. Stahl, *Cluster Analysis*, 5th ed., Wiley, 2011.
- [6] C. C. Aggarwal and C. K. Reddy, *Data Clustering: Algorithms and Applications*, CRC Press, 2014.
- [7] A. M. Ikotun *et al.*, "K-means clustering algorithms: A comprehensive review, variants analysis, and advances in the era of big data," *Information Sciences*, vol. 622, pp. 178–210, 2023.
- [8] M. E. Celebi, H. A. Kingravi, and P. A. Vela, "A comparative study of efficient initialization methods for the K-means clustering algorithm," *Expert Syst. with Appl.*, vol. 40, no. 1, 2013.
- [9] A. K. Jain, "Data clustering: 50 years beyond K-means," *Pattern Recognit. Lett.*, vol. 31, no. 8, pp. 651–666, 2010.
- [10] A. Papadimitriou and V. Tsoukala, "Evaluating and enhancing the performance of the K-means clustering algorithm for annual coastal bed evolution applications," *Oceanologia*, vol. 669, no. 2, pp. 267–285, 2024.
- [11] P. Franti and S. Sieranoja, "How much can K-means be improved by using better initialization and repeats?," *Pattern Recognit.*, vol. 93, pp. 95–112, 2019.
- [12] A. M. Ikotun, M. S. Almutari, and A. E. Ezugwu, "K-means-based nature-inspired metaheuristic algorithms for automatic data clustering problems:

- Recent advances and future directions," *Appl. Sci.*, vol. 11, no. 23, p. 11246, 2021.
- [13] M. Neshat, S. F. Yazdi, D. Yazdani, and M. Sargolzaei, "A new comparative algorithm based on PSO and K-means for data clustering," *J. Comp. Sci.*, vol. 8, no. 2, pp. 188–194, 2012.
  - [14] Q. Pu, J. Gan, and L. Qiu *et al.*, "An efficient hybrid approach based on PSO, ABC and K-means for cluster analysis," *Multimed. Tools Appl.*, vol. 81, pp. 19321–19339, 2022.
  - [15] A. Patel and J. Agrawal, "PSO based K-means clustering algorithm for multi-view data," *Int. J. of Creat. Res. Thoughts*, vol. 6, no. 1, 2018.
  - [16] D. Lestari, A. C. Fauzan, and H. Harliana, "Penerapan algoritma pillar untuk optimasi penentuan titik awal centroid pada algoritma K-means clustering," *JOISIE (J. of Inf. Syst. and Inf. Eng.)*, vol. 6, no. 1, Jul. 2022, doi: 10.35145/joisie.v6i1.2053.
  - [17] C. Gao, X. Yong, and Y. Gao *et al.*, "An improved black hole algorithm designed for K-means clustering method," *Complex Intell. Syst.*, vol. 10, pp. 5083–5106, 2024.
  - [18] X. Chen *et al.*, "AHA-3WKM: The optimization of K-means with three-way clustering and artificial hummingbird algorithm," *Inf. Sci.*, vol. 672, p. 120661, 2024.
  - [19] D. Taslim, D. Toresa, D. Jollyta, D. Suryani, and E. Sabna, "Optimasi K-means dengan algoritma genetika untuk target pemanfaatan air bersih Provinsi Riau," *Indonesian J. of Comput. Sci.*, vol. 10, no. 1, Jul. 2022, doi: 10.33022/ijcs.v10i1.3064.
  - [20] D. A. Kuntjoro, B. D. Setiawan, and R. S. Perdana, "Algoritme genetika untuk optimasi K-means clustering dalam pengelompokan data tsunami," *J. Pengemb. Teknol. Inf. dan Ilmu Komput.*, vol. 2, no. 10, pp. 3865–3872, Oct. 2018. Mohri, M., Rostamizadeh, A., and Talwalkar, A. Foundations of Machine Learning. MIT Press. 2018.
  - [21] M. Mursalim, P. Purwanto, and M. A. Soeleman, "Penentuan *Centroid* Awal Pada Algoritma K-Means Dengan Dynamic Artificial Chromosomes Genetic

- Algorithm Untuk Tuberculosis Dataset," Techno.Com, vol. 20, no. 1, pp. 97–108, Feb. 2021, doi: 10.33633/tc.v20i1.4230.
- [22] D. B. Wijaya, E. Noersasongko, Purwanto, "Optimasi *Centroid* Awal Algoritma K-Medoids Menggunakan *Particle Swarm Optimization* Untuk Segmentasi Customer" Techno.COM, Vol. 23, No. 1, Hal. 221-232, Feb. 2024.
- [23] R. Poli, J. Kennedy, and T. Blackwell, "Particle Swarm Optimization," *Swarm Intell.*, vol. 1, no. 1, pp. 33–57, 2007.
- [24] W. R. Abdul-Adheem, "An Enhanced Particle Swarm Optimization," *Int. J. Elec. Comput. Eng.*, vol. 9, pp. 4904–4907, 2019.
- [25] S. Y. Lim, M. Montakhab, and H. Nouri, "Economic Dispatch of Power System Using Particle Swarm Optimization with Constriction Factor," *Int. J. Innov. Energy Syst. Power*, vol. 4, no. 2, pp. 29–34, 2009.
- [26] S. K. S. Fan and Y. Y. Chiu, "A Decreasing Inertia Weight Particle Swarm Optimizer," *Eng. Optim.*, vol. 39, no. 2, pp. 203–228, 2007.
- [27] J. Xin, G. Chen, and Y. Hai, "A Particle Swarm Optimizer with Multi-Stage Linearly-Decreasing Inertia Weight," in *Int. Joint Conf. Comput. Sci. Optim.*, pp. 505–508, 2009.
- [28] R. Primartha, *Algoritma Machine Learning*, Edisi Pertama. Bandung, Indonesia: Penerbit Informatika, 2021.
- [29] Y. Zhang, S. Wang, and G. Ji, "A Comprehensive Survey on Particle Swarm Optimization Algorithm and Its Applications," *Math. Probl. Eng.*, vol. 2015, pp. 1–38, 2015.
- [30] M. Clerc, *Particle Swarm Optimization*. London, U.K.: ISTE Ltd, 2006.
- [31] K. Sabo, R. Scitovski, and I. Vazler, "One-Dimensional Center-Based L1-Clustering Method," *Optim. Lett.*, vol. 7, no. 1, pp. 5–22, Aug. 2011, doi: 10.1007/s11590-011-0389-9.
- [32] Kristayulita, *Trigonometri*. Mataram, Indonesia: Sanabil, 2020.
- [33] H. Lin, Y. Gao, X. Wang, and S. Su, "A Filled Function Which Has the Same Local Minimizer of the Objective Function," *Optim. Lett.*, vol. 13, pp. 761–776, 2019.

- [34] H. Lin, Y. Gao, and Y. Wang, "A Continuously Differentiable Filled Function Method for Global Optimization," *Numer. Algor.*, vol. 66, pp. 511–523, 2014.
- [35] Y. Yang and F. Bai, "An Integral Function and Vector Sequence Method for Unconstrained Global Optimization," *J. Glob. Optim.*, vol. 50, pp. 293–311, 2010.
- [36] M. Jamil and X. S. Yang, "A Literature Survey of Benchmark Functions for Global Optimization Problems," *Int. J. Math. Model. Numer. Optim.*, vol. 4, no. 2, pp. 150–194, 2013.
- [37] C. Higuera, K. Gardiner, and K. Cios, "Mice Protein Expression," *UCI Machine Learning Repository*, 2015.
- [38] N. Dehouche, "Facebook Live Sellers in Thailand," *UCI Machine Learning Repository*, 2018.
- [39] "Gas Turbine CO and NOx Emission Data Set," *UCI Machine Learning Repository*, 2019. Higuera, C., Gardiner, K., Cios, K. Mice Protein Expression. UCI Machine Learning Repository. 2015.