

- [1] “Proporsi Individu yang Menguasai/Memiliki Telepon Genggam Menurut Provinsi (Persen), 2020-2022.” [Online]. Available: <https://www.bps.go.id/indicator/27/1221/1/proporsi-individu-yang-menggunakan-telepon-genggam.html>
- [2] R. Pellungrini, L. Pappalardo, F. Pratesi, and A. Monreale, “A Data Mining Approach to Assess Privacy Risk in Human Mobility Data,” *ACM Trans. Intell. Syst. Technol.*, vol. 9, no. 3, pp. 1–27, May 2018, doi: 10.1145/3106774.
- [3] R. Guidotti and M. Nanni, “Crash Prediction and Risk Assessment with Individual Mobility Networks,” in 2020 21st IEEE International Conference on Mobile Data Management (MDM), Versailles, France: IEEE, Jun. 2020, pp. 89–98. doi: 10.1109/MDM48529.2020.00030.
- [4] A. Crivellari and E. Beinat, “LSTM-Based Deep Learning Model for Predicting Individual Mobility Traces of Short-Term Foreign Tourists,” *Sustainability*, vol. 12, no. 1, p. 349, Jan. 2020, doi: 10.3390/su12010349.
- [5] Y. Xu, J. Xue, S. Park, and Y. Yue, “Towards a multidimensional view of tourist mobility patterns in cities: A mobile phone data perspective,” *Computers, Environment and Urban Systems*, vol. 86, p. 101593, Mar. 2021, doi: 10.1016/j.compenvurbsys.2020.101593.
- [6] T. Shi, G. Ji, Z. Yu, and B. Zhao, “Collective periodic pattern discovery for understanding human mobility,” *Cluster Comput.*, vol. 24, no. 1, pp. 141–157, Mar. 2021, doi: 10.1007/s10586-020-03220-0.
- [7] B. Guo et al., “Understanding individual and collective human mobility patterns in twelve crowding events occurred in Shenzhen,” *Sustainable Cities and Society*, vol. 81, p. 103856, Jun. 2022, doi: 10.1016/j.scs.2022.103856.
- [8] Y. D. Nugroho and K. A. Pratiwi Kasuma, “ANALISIS PERUBAHAN MOBILITAS TERHADAP PROSES REMEDIASI DAMPAK COVID-19 DI INDONESIA MENGGUNAKAN DATA GOOGLE MOBILITY,” *semnasoffstat*, vol. 2020, no. 1, pp. 344–348, Jan. 2021, doi: 10.34123/semnasoffstat.v2020i1.675.
- [9] G. M. Hadjidemetriou, M. Sasidharan, G. Kouyialis, and A. K. Parlikad, “The impact of government measures and human mobility trend on COVID-19 related deaths in the UK,” *Transportation Research Interdisciplinary Perspectives*, vol. 6, p. 100167, Jul. 2020, doi: 10.1016/j.trip.2020.100167.
- [10] N. Hayati, F. Fauziah, D. R. Poetra, and D. Wandu, “Trend of the spread of COVID-19 in Indonesia using the machine learning prophet algorithm,” *IJECS*, vol. 24, no. 3, p. 1780, Dec. 2021, doi: 10.11591/ijeecs.v24.i3.pp1780-1788.
- [11] “PP No. 21 Tahun 2020 tentang PSBB dalam Rangka Penanganan COVID-19.pdf.”
- [12] R. Su, E. C. McBride, and K. G. Goulias, “Pattern recognition of daily activity patterns using human mobility motifs and sequence analysis,” *Transportation Research Part C: Emerging Technologies*, vol. 120, p. 102796, Nov. 2020, doi: 10.1016/j.trc.2020.102796.
- [13] X. Yang et al., “Characterizing mobility patterns of private electric vehicle users with trajectory data,” *Applied Energy*, vol. 321, p. 119417, Sep. 2022, doi: 10.1016/j.apenergy.2022.119417.
- [14] C. Zhao, A. Zeng, and C. H. Yeung, “Characteristics of human mobility patterns revealed by high-frequency cell-phone position data,” *EPJ Data Sci.*, vol. 10, no. 1, p. 5, Dec. 2021, doi: 10.1140/epjds/s13688-021-00261-2.
- [15] F. Naretto, R. Pellungrini, A. Monreale, F. M. Nardini, and M. Musolesi, “Predicting and Explaining Privacy Risk Exposure in Mobility Data,” in *Discovery*

- Science, vol. 12323, A. Appice, G. Tsoumakas, Y. Manolopoulos, and S. Matwin, Eds., in Lecture Notes in Computer Science, vol. 12323. , Cham: Springer International Publishing, 2020, pp. 403–418. doi: 10.1007/978-3-030-61527-7_27.
- [16] R. Tan, Y. Tao, W. Si, and Y.-Y. Zhang, “Privacy preserving semantic trajectory data publishing for mobile location-based services,” *Wireless Netw*, vol. 26, no. 8, pp. 5551–5560, Nov. 2020, doi: 10.1007/s11276-019-02058-8.
- [17] H. Efstathiades, D. Antoniadis, G. Pallis, and M. D. Dikaiakos, “Identification of Key Locations based on Online Social Network Activity,” in *Proceedings of the 2015 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining 2015*, Paris France: ACM, Aug. 2015, pp. 218–225. doi: 10.1145/2808797.2808877.
- [18] R. Pellungrini, L. Pappalardo, F. Pratesi, and A. Monreale, “Analyzing Privacy Risk in Human Mobility Data,” in *Software Technologies: Applications and Foundations*, vol. 11176, M. Mazzara, I. Ober, and G. Salaün, Eds., in Lecture Notes in Computer Science, vol. 11176. , Cham: Springer International Publishing, 2018, pp. 114–129. doi: 10.1007/978-3-030-04771-9_10.
- [19] A. Hamoudzadeh and S. Behzadi, “Predicting user’s next location using machine learning algorithms,” *Spat. Inf. Res.*, vol. 29, no. 3, pp. 379–387, Jun. 2021, doi: 10.1007/s41324-020-00358-2.
- [20] S. Wang, B. Wang, S. Yao, J. Qu, and Y. Pan, “Location prediction with personalized federated learning,” *Soft Comput*, Apr. 2022, doi: 10.1007/s00500-022-07045-4.
- [21] W. Qian, F. Lauri, and F. Gechter, “A Probabilistic Approach for Discovering Daily Human Mobility Patterns with Mobile Data.” *arXiv*, Nov. 21, 2019. Accessed: May 08, 2023. [Online]. Available: <http://arxiv.org/abs/1911.09355>
- [22] M. Yan, S. Li, C. A. Chan, Y. Shen, and Y. Yu, “Mobility Prediction Using a Weighted Markov Model Based on Mobile User Classification,” *Sensors*, vol. 21, no. 5, p. 1740, Mar. 2021, doi: 10.3390/s21051740.
- [23] Y. Li, L. Lei, and M. Yan, “Mobile user Location Prediction Based on user Classification and Markov Model,” in *2019 International Joint Conference on Information, Media and Engineering (IJCIME)*, Osaka, Japan: IEEE, Dec. 2019, pp. 440–444. doi: 10.1109/IJCIME49369.2019.00095.
- [24] M. Aljeri, “Big Data-Driven Approach to Analyzing Spatio-Temporal Mobility Pattern,” *IEEE Access*, vol. 10, pp. 98414–98426, 2022, doi: 10.1109/ACCESS.2022.3206859.
- [25] H. Martin, Y. Hong, N. Wiedemann, D. Bucher, and M. Raubal, “Trackintel: An open-source Python library for human mobility analysis.” *arXiv*, Aug. 05, 2022. Accessed: Nov. 26, 2022. [Online]. Available: <http://arxiv.org/abs/2206.03593>
- [26] Q. Chen and A. Poorthuis, “Identifying home locations in human mobility data: an open-source R package for comparison and reproducibility,” *International Journal of Geographical Information Science*, vol. 35, no. 7, pp. 1425–1448, Jul. 2021, doi: 10.1080/13658816.2021.1887489.
- [27] S. Phithakkitnukoon, Z. Smoreda, and P. Olivier, “Socio-Geography of Human Mobility: A Study Using Longitudinal Mobile Phone Data,” *PLoS ONE*, vol. 7, no. 6, p. e39253, Jun. 2012, doi: 10.1371/journal.pone.0039253.
- [28] L. Pappalardo, F. Simini, G. Barlacchi, and R. Pellungrini, “Scikit-mobility: a Python library for the analysis, generation and risk assessment of mobility data.” *arXiv*, Jun. 04, 2021. Accessed: Nov. 26, 2022. [Online]. Available: <http://arxiv.org/abs/1907.07062>
- [29] B. Mo, Z. Zhao, H. N. Koutsopoulos, and J. Zhao, “Individual Mobility Prediction in Mass Transit Systems Using Smart Card Data: An Interpretable Activity-Based

- Hidden Markov Approach,” *IEEE Trans. Intell. Transport. Syst.*, vol. 23, no. 8, pp. 2014–2026, Aug. 2022, doi: 10.1109/TITS.2021.3109428.
- [30] H. Niu et al., “Exploring the tidal effect of urban business district with large-scale human mobility data,” *Front. Comput. Sci.*, vol. 17, no. 3, p. 173319, Jun. 2023, doi: 10.1007/s11704-022-1623-6.
- [31] “<https://informatics.uui.ac.id/> 2022/05/02/mengungkap-pola-mobilitas-manusia-selama-pandemi-COVID-19/.”
- [32] “Hajar et al. - 2021 - Pengolahan Data Spasial-Geolocation Untuk Menghitsu.pdf.”
- [33] A. W. Kiwelekar, G. S. Mahamunkar, L. D. Netak, and V. B. Nikam, “Deep Learning Techniques for Geospatial Data Analysis,” in *Machine Learning Paradigms*, vol. 18, G. A. Tsihrintzis and L. C. Jain, Eds., in *Learning and Analytics in Intelligent Systems*, vol. 18., Cham: Springer International Publishing, 2020, pp. 63–81. doi: 10.1007/978-3-030-49724-8_3.
- [34] R. Ibrahim and M. O. Shafiq, “Detecting taxi movements using Random Swap clustering and sequential pattern mining,” *J Big Data*, vol. 6, no. 1, p. 39, Dec. 2019, doi: 10.1186/s40537-019-0203-6.
- [35] A. Solomon, A. Livne, G. Katz, B. Shapira, and L. Rokach, “Analyzing movement predictability using human attributes and behavioral patterns,” *Computers, Environment and Urban Systems*, vol. 87, p. 101596, May 2021, doi: 10.1016/j.compenvurbsys.2021.101596.
- [36] C. Comito, “NexT: A framework for next-place prediction on location based social networks,” *Knowledge-Based Systems*, vol. 204, p. 106205, Sep. 2020, doi: 10.1016/j.knosys.2020.106205.
- [37] Q. Gao, W. Wang, K. Zhang, X. Yang, C. Miao, and T. Li, “Self-supervised representation learning for trip recommendation,” *Knowledge-Based Systems*, vol. 247, p. 108791, Jul. 2022, doi: 10.1016/j.knosys.2022.108791.
- [38] Y. Xu, J. Xue, S. Park, and Y. Yue, “Towards a multidimensional view of tourist mobility patterns in cities: A mobile phone data perspective,” *Computers, Environment and Urban Systems*, vol. 86, p. 101593, Mar. 2021, doi: 10.1016/j.compenvurbsys.2020.101593.
- [39] K. Li, S. P. Eckel, E. Garcia, Z. Chen, J. P. Wilson, and F. D. Gilliland, “Geographic Variations in Human Mobility Patterns during the First Six Months of the COVID-19 Pandemic in California,” *Applied Sciences*, vol. 13, no. 4, p. 2440, Feb. 2023, doi: 10.3390/app13042440.
- [40] Y. Zheng, “Trajectory Data Mining: An Overview,” *ACM Trans. Intell. Syst. Technol.*, vol. 6, no. 3, pp. 1–41, May 2015, doi: 10.1145/2743025.
- [41] R. Pellungrini, L. Pappalardo, F. Pratesi, and A. Monreale, “Analyzing Privacy Risk in Human Mobility Data,” in *Software Technologies: Applications and Foundations*, vol. 11176, M. Mazzara, I. Ober, and G. Salaün, Eds., in *Lecture Notes in Computer Science*, vol. 11176., Cham: Springer International Publishing, 2018, pp. 114–129. doi: 10.1007/978-3-030-04771-9_10.
- [42] Q. Chen and A. Poorthuis, “Identifying home locations in human mobility data: an open-source R package for comparison and reproducibility,” *International Journal of Geographical Information Science*, vol. 35, no. 7, pp. 1425–1448, Jul. 2021, doi: 10.1080/13658816.2021.1887489.
- [43] H. Efsthadiades, D. Antoniadis, G. Pallis, and M. D. Dikaiakos, “Identification of Key Locations based on Online Social Network Activity,” in *Proceedings of the 2015 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining 2015*, Paris France: ACM, Aug. 2015, pp. 218–225. doi: 10.1145/2808797.2808877.

- [44] Y. Zheng, "Trajectory Data Mining: An Overview," *ACM Trans. Intell. Syst. Technol.*, vol. 6, no. 3, pp. 1–41, May 2015, doi: 10.1145/2743025.
- [45] L. Pappalardo and F. Simini, "Data-driven generation of spatio-temporal routines in human mobility," *Data Min Knowl Disc*, vol. 32, no. 3, pp. 787–829, May 2018, doi: 10.1007/s10618-017-0548-4.
- [46] R. Palupi, D. A. Yulianna, and S. S. Winarsih, "Analisa Perbandingan Rumus Haversine Dan Rumus Euclidean Berbasis Sistem Informasi Geografis Menggunakan Metode Independent Sample t-Test," *jitu*, vol. 5, no. 1, pp. 40–47, Jul. 2021, doi: 10.36596/jitu.v5i1.494.
- [47] "https://scikitlearn.org/stable/modules/generated/sklearn.cluster.DBSCAN.html."
- [48] "Algoritma Naive Bayes." [Online]. Available: <https://binus.ac.id/bandung/2019/12/algoritma-naive-bayes/>
- [49] "Apa itu Decision Tree." [Online]. Available: <https://revou.co/kosakata/decision-tree>
- [50] "Mengenal K-nearest Neighbor." [Online]. Available: <https://blog.algorit.ma/k-nearest-neighbor/>
- [51] "https://scikit-learn.org/stable/index.html." [Online]. Available: <https://scikit-learn.org/stable/index.html>
- [52] BPS, "Istilah Statistik." [Online]. Available: https://sensus.bps.go.id/metadata_statistik
- [53] L. Pappalardo, S. Rinzivillo, Z. Qu, D. Pedreschi, and F. Giannotti, "Understanding the patterns of car travel," *Eur. Phys. J. Spec. Top.*, vol. 215, no. 1, pp. 61–73, Jan. 2013, doi: 10.1140/epjst/e2013-01715-5.
- [54] M. C. González, C. A. Hidalgo, and A.-L. Barabási, "Understanding individual human mobility patterns." *Nature* 453, 779–782, Jun. 05, 2008.
- [55] Y. Liu, Z. Li, H. Xiong, X. Gao, and J. Wu, "Understanding of Internal Clustering Validation Measures," in *2010 IEEE International Conference on Data Mining*, Sydney, Australia: IEEE, Dec. 2010, pp. 911–916. doi: 10.1109/ICDM.2010.35.
- [56] Q. Chen and A. Poorthuis, "Identifying home locations in human mobility data: an open-source R package for comparison and reproducibility," *International Journal of Geographical Information Science*, vol. 35, no. 7, pp. 1425–1448, Jul. 2021, doi: 10.1080/13658816.2021.1887489.
- [57] L. Pappalardo, F. Simini, G. Barlacchi, and R. Pellungrini, "scikit-mobility : A Python Library for the Analysis, Generation, and Risk Assessment of Mobility Data," *J. Stat. Soft.*, vol. 103, no. 4, 2022, doi: 10.18637/jss.v103.i04.