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Pemodelan Sebaran Perjalanan Berbasis Mobile Network Big Data (MNBD) (Studi Kasus: DKI Jakarta)
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DAFTAR PUSTAKA

Afandizadeh Zargari, S., Memarnejad, A., dan Mirzahossein, H., 2021, Hourly Origin–Destination Matrix Estimation Using Intelligent Transportation Systems Data and Deep Learning, *Sensors*, Vol. 21, no. 21, pp 7080

Akkiraju, R., Sinha, V., Xu, A., Mahmud, J., Gundecha, P., Liu, Z., Liu, X., dan Schumacher, J., 2020, Characterizing Machine Learning Processes: A Maturity Framework, hlm. 17–31, dalam Fahland, D., Ghidini, C., Becker, J., dan Dumas, M. (ed.), *Business Process Management*, Springer International Publishing, Cham

Algadrie, M. I., 2020, *Identifikasi Perubahan Pola Pergerakan Selama Masa Pandemi Covid-19 Di Kota Bandung*, PhD Thesis, Universitas Komputer Indonesia

Ali, A., Zhu, Y., dan Zakarya, M., 2022, Exploiting dynamic spatio-temporal graph convolutional neural networks for citywide traffic flows prediction, *Neural networks*, Vol. 145, pp 233–247

Al-Mekhlal, M. dan Ali Khwaja, A., 2019, A Synthesis of Big Data Definition and Characteristics, hlm. 314–322, dalam 2019 IEEE International Conference on Computational Science and Engineering (CSE) and IEEE International Conference on Embedded and Ubiquitous Computing (EUC) –, *2019 IEEE International Conference on Computational Science and Engineering (CSE) and IEEE International Conference on Embedded and Ubiquitous Computing (EUC)*

Amirian, P., Basiri, A., dan Morley, J., 2016, Predictive analytics for enhancing travel time estimation in navigation apps of Apple, Google, and Microsoft, hlm. 31–36, dalam *Proceedings of the 9th ACM SIGSPATIAL International Workshop on Computational Transportation Science*

Anagnostopoulou, E., Urbančič, J., Bothos, E., Magoutas, B., Bradesko, L., Schrammel, J., dan Mentzas, G., 2020, From mobility patterns to behavioural change: leveraging travel behaviour and personality profiles to nudge for sustainable transportation, *Journal of Intelligent Information Systems*, Vol. 54, no. 1, pp 157–178

Anand, A. dan George, V., 2022, Modeling Trip-generation and Distribution using Census, Partially Correct Household Data, and GIS, *Civil Engineering Journal*, Vol. 8, no. 9, pp 1936–1957

Anda, C., Erath, A., dan Fourie, P. J., 2017, Transport modelling in the age of big data, *International Journal of Urban Sciences*, Vol. 21, no. sup1, pp 19–42

Angelakis, V., Gundlegård, D., Rydergren, C., Rajna, B., Vrotsou, K., Carlsson, R., Forgeat, J., Hu, T. H., Liu, E. L., dan Moritz, S., 2013, Mobility modeling for transport efficiency: analysis of travel characteristics based on mobile phone data, dalam *Netmob 2013-Third International Conference on the Analysis of Mobile Phone Datasets, May 1-3, 2013, MIT, Cambridge, MA, USA*

Awaysheh, F., Cabaleiro, J. C., Pena, T. F., dan Alazab, M., 2019, Big data security frameworks meet the intelligent transportation systems trust challenges, hlm. 807–813, dalam *2019 18th IEEE International Conference On Trust, Security And Privacy In Computing And Communications/13th IEEE International Conference On Big Data Science And Engineering (TrustCom/BigDataSE)*, IEEE

Azwar, S. A. dan Abdurrohman, Y., 2021, Pengaruh Pandemik Covid-19 Terhadap Gerakan Transportasi Di Jabodetabek, *LOGISTIK*, Vol. 14, no. 1, pp 27–36

Pemodelan Sebaran Perjalanan Berbasis Mobile Network Big Data (MNBD) (Studi Kasus: DKI Jakarta)
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Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Balachandran, B. M. dan Prasad, S., 2017, Challenges and benefits of deploying big data analytics in the cloud for business intelligence, *Procedia Computer Science*, Vol. 112, pp 1112–1122

Ballı, S. dan Sağbaş, E. A., 2018, Diagnosis of Transportation Modes on Mobile Phone Using Logistic Regression Classification, *IET Software*, Vol. 12, no. 2, pp 142–151

Barbosa, H., Barthelemy, M., Ghoshal, G., James, C. R., Lenormand, M., Louail, T., Menezes, R., Ramasco, J. J., Simini, F., dan Tomasini, M., 2018, Human Mobility: Models and Applications, *Physics Reports*, Vol. 734, pp 1–74

Beiró, M. G., Panisson, A., Tizzoni, M., dan Cattuto, C., 2016, Predicting human mobility through the assimilation of social media traces into mobility models, *EPJ Data Science*, Vol. 5, pp 1–15

Bertino, E. dan Ferrari, E., 2018, Big data security and privacy, hlm. 425–439, dalam *A comprehensive guide through the Italian database research over the last 25 years*, Springer

Bettencourt, L. M. A., 2014, The Uses of Big Data in Cities, *Big Data*, Vol. 2, no. 1, pp 12–22

Bibri, S. E., 2018, The IoT for smart sustainable cities of the future: An analytical framework for sensor-based big data applications for environmental sustainability, *Sustainable cities and society*, Vol. 38, pp 230–253

Bisanzio, D., Kraemer, M. U., Bogoch, I. I., Brewer, T., Brownstein, J. S., dan Reithinger, R., 2020, Use of Twitter social media activity as a proxy for human mobility to predict the spatiotemporal spread of COVID-19 at global scale, *Geospatial health*, Vol. 15, no. 1

Biswas, D., Su, H., Wang, C., Blankenship, J., dan Stevanovic, A., 2017, An Automatic Car Counting System Using OverFeat Framework, *Sensors*, Vol. 17, no. 7, pp 1535

Bohari, Z. A., Bachok, S., dan Osman, M. M., 2014, Improving the Quality of Public Transportation System: Application of Simulation Model for Passenger Movement, *Procedia - Social and Behavioral Sciences*, Vol. 153, pp 542–552

Boyd, D. dan Crawford, K., 2012, Critical Questions for Big Data, *Information, Communication & Society*, Vol. 15, no. 5, pp 662–679

Bracci, A., Colombaroni, C., Fusco, G., dan Isaenko, N., 2021, Investigation and Modeling on Drivers' Route and Departure Time Choices from a Big Data Set of Floating Car Data, hlm. 1–7, dalam *2021 7th International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS)*, IEEE

Bui, K.-H. N., Cho, J., dan Yi, H., 2022, Spatial-Temporal Graph Neural Network for Traffic Forecasting: An Overview and Open Research Issues, *Applied Intelligence*, Vol. 52, no. 3, pp 2763–2774

Cakupan 3G / 4G / 5G dalam Indonesia - nPerf.com, https://www.nperf.com/id/map/ID/-/2992.XL-Axiata/signal/?ll=-3.337953961416472&lg=116.85058593750001&zoom=5 , diakses tanggal 20 September 2022.

Calabrese, F., Di Lorenzo, G., Liu, L., dan Ratti, C., 2011, Estimating Origin-Destination Flows Using Mobile Phone Location Data, *IEEE Pervasive Computing*, Vol. 10, no. 4, pp 36–44

Cats, O. dan Ferranti, F., 2022, Unravelling Individual Mobility Temporal Patterns Using Longitudinal Smart Card Data, *Research in Transportation Business & Management*, pp 100816

UNIVERSITAS
GADJAH MADA
Pemodelan Sebaran Perjalanan Berbasis Mobile Network Big Data (MNBD) (Studi Kasus: DKI Jakarta)
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Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Charoenkwan, P., Chiangjong, W., Hasan, M. M., Nantasenamat, C., dan Shoombuatong, W., 2022, Review and Comparative Analysis of Machine Learning-based Predictors for Predicting and Analyzing Anti-angiogenic Peptides, *Current Medicinal Chemistry*, Vol. 29, no. 5, pp 849–864

Chelly Dagdia, Z., Zarges, C., Beck, G., dan Lebbah, M., 2020, A scalable and effective rough set theory-based approach for big data pre-processing, *Knowledge and Information Systems*, Vol. 62, pp 3321–3386

Chen, C., Ma, J., Susilo, Y., Liu, Y., dan Wang, M., 2016, The promises of big data and small data for travel behavior (aka human mobility) analysis, *Transportation research part C: emerging technologies*, Vol. 68, pp 285–299

Chen, L., Shang, S., Jensen, C. S., Yao, B., Zhang, Z., dan Shao, L., 2019a, Effective and efficient reuse of past travel behavior for route recommendation, hlm. 488–498, dalam *Proceedings of the 25th ACM SIGKDD international conference on knowledge discovery & data mining*

Chen, X., Wan, X., Li, Q., Ding, F., McCarthy, C., Cheng, Y., dan Ran, B., 2019b, Trip-Chain-Based Travel-Mode-Shares-Driven Framework Using Cellular Signaling Data and Web-Based Mapping Service Data, *Transportation Research Record*, Vol. 2673, no. 3, pp 51–64

Cheng, N., Lyu, F., Chen, J., Xu, W., Zhou, H., Zhang, S., dan Shen, X., 2018, Big data driven vehicular networks, *Ieee Network*, Vol. 32, no. 6, pp 160–167

Cik, M. dan Fellendorf, M., 2019, Cell phone based origin-destination matrices for transport Modelling, *Transportation Research Procedia*, Vol. 41

Clarke, M., Dix, M., dan Jones, P., 1981, Error and Uncertainty in Travel Surveys, *Transportation*, Vol. 10, no. 2, pp 105–126

Clifton, K. J. dan Handy, S. L., 2003, Qualitative methods in travel behaviour research, dalam *Transport survey quality and innovation*, Emerald Group Publishing Limited

Çolak, S., Alexander, L. P., Alvim, B. G., Mehndiratta, S. R., dan González, M. C., 2015, Analyzing cell phone location data for urban travel: current methods, limitations, and opportunities, *Transportation Research Record*, Vol. 2526, no. 1, pp 126–135

Comi, A. dan Polimeni, A., 2022, Estimating Path Choice Models through Floating Car Data, *Forecasting*, Vol. 4, no. 2, pp 525–537

Cui, Y., 2019, *Augmenting household travel survey and travel behavior analysis using large-scale social media data and smartphone GPS data*, PhD Thesis, State University of New York at Buffalo

Cuzzocrea, A., Leung, C. K., Hajian, M., dan Jackson, M. D., 2022, Effectively and Efficiently Supporting Predictive Big Data Analytics over Open Big Data in the Transportation Sector: A Bayesian Network Framework, hlm. 1–8, dalam *2022 IEEE Intl Conf on Dependable, Autonomic and Secure Computing, Intl Conf on Pervasive Intelligence and Computing, Intl Conf on Cloud and Big Data Computing, Intl Conf on Cyber Science and Technology Congress (DASC/PiCom/CBDCom/CyberSciTech)*, IEEE

Demissie, M. G., Phithakkitnukoon, S., dan Kattan, L., 2019, Trip Distribution Modeling Using Mobile Phone Data: Emphasis on Intra-Zonal Trips, *IEEE Transactions on Intelligent Transportation Systems*, Vol. 20, no. 7, pp 2605–2617

Pemodelan Sebaran Perjalanan Berbasis Mobile Network Big Data (MNBD) (Studi Kasus: DKI Jakarta)
Okkie Putriani, Prof. Ir. Sigit Priyanto, M.Sc., Ph.D.; Dr.Eng. Ir. Imam Muthohar, S.T., M.T., IPM.; M. Rizka Fahmi Am
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Desić, S., Filič, M., dan Filjar, R., 2017, Determination of origins and destinations for an OD matrix based on telecommunication activity records, hlm. 424–427, dalam *2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO)*, IEEE

Digital 2022: Indonesia, DataReportal – Global Digital Insights, https://datareportal.com/reports/digital-2022-indonesia , diakses tanggal 20 September 2022.

Ekowicaksono, I., Bukhari, F., dan Aman, A., 2016, Estimating origin-destination matrix of bogor city using gravity model, hlm. 012021, dalam *IOP Conference Series: Earth and Environmental Science*, IOP Publishing

Eleiche, M. A., 2011, *Network analysis methods for mobile GIS*, PhD Thesis, nyme

Fekih, M., Bellemans, T., Smoreda, Z., Bonnel, P., Furno, A., dan Galland, S., 2021, A data-driven approach for origin–destination matrix construction from cellular network signalling data: a case study of Lyon region (France), *Transportation*, Vol. 48, no. 4, pp 1671–1702

Feng, T. dan Timmermans, H. J., 2016, Comparison of advanced imputation algorithms for detection of transportation mode and activity episode using GPS data, *Transportation Planning and Technology*, Vol. 39, no. 2, pp 180–194

Fusco, G., Bracci, A., Caligiuri, T., Colombaroni, C., dan Isaenko, N., 2018, Experimental analyses and clustering of travel choice behaviours by floating car big data in a large urban area, *IET Intelligent Transport Systems*, Vol. 12, no. 4, pp 270–278

Ge, Q. dan Fukuda, D., 2016, Updating origin-destination matrices with aggregated data of GPS traces, *Transportation Research Part C: Emerging Technologies*, Vol. 69, pp 291–312

Goma, E. I., Sandy, A. T., dan Zakaria, M., 2021, *Analisis Distribusi dan Interpretasi Data Penduduk Usia Produktif Indonesia Tahun 2020 | Jurnal Georafflesia: Artikel Ilmiah Pendidikan Geografi*, https://www.journals.unihaz.ac.id/index.php/georafflesia/article/view/1781 , diakses tanggal 29 Mei 2023.

Gonçalves, D. N. S., Gonçalves, C. de M., Assis, T. F. de, dan Silva, M. A. da, 2014, Analysis of the Difference between the Euclidean Distance and the Actual Road Distance in Brazil, *Transportation Research Procedia*, Vol. 3, pp 876–885

Griffin, G. P., Mulhall, M., Simek, C., dan Riggs, W. W., 2020, Mitigating Bias in Big Data for Transportation, *Journal of Big Data Analytics in Transportation*, Vol. 2, no. 1, pp 49–59

Han, X., Zhu, G., Zhao, L., Du, R., Wang, Y., Chen, Z., Liu, Y., dan He, S., 2023, Ollivier–Ricci Curvature Based Spatio-Temporal Graph Neural Networks for Traffic Flow Forecasting, *Symmetry*, Vol. 15, no. 5, pp 995

Harrison, G., Grant-Muller, S. M., dan Hodgson, F. C., 2020, New and emerging data forms in transportation planning and policy: Opportunities and challenges for “Track and Trace” data, *Transportation Research Part C: Emerging Technologies*, Vol. 117, pp 102672

Hasan, R. A., Irshaid, H., Alhomaidat, F., Lee, S., dan Oh, J.-S., 2022, Transportation Mode Detection by Using Smartphones and Smartwatches with Machine Learning, *KSCE Journal of Civil Engineering*, Vol. 26, no. 8, pp 3578–3589

UNIVERSITAS
GADJAH MADA
Pemodelan Sebaran Perjalanan Berbasis Mobile Network Big Data (MNBD) (Studi Kasus: DKI Jakarta)
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Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Heiskala, M., Jokinen, J.-P., dan Tinnilä, M., 2016, Crowdsensing-based transportation services—An analysis from business model and sustainability viewpoints, *Research in Transportation Business & Management*, Vol. 18, pp 38–48

Hofmann, E., 2017, Big data and supply chain decisions: the impact of volume, variety and velocity properties on the bullwhip effect, *International Journal of Production Research*, Vol. 55, no. 17, pp 5108–5126

Holleczek, T., Yu, L., Lee, J. K., Senn, O., Kloeckl, K., Ratti, C., dan Jaillet, P., 2013, Digital breadcrumbs: Detecting urban mobility patterns and transport mode choices from cellphone networks, *arXiv preprint arXiv:1308.6705*, Advance Access published 2013

Hong, J., Shen, Q., dan Zhang, L., 2014, How Do Built-Environment Factors Affect Travel Behavior? A Spatial Analysis at Different Geographic Scales, *Transportation*, Vol. 41, no. 3, pp 419–440

Huang, H., Cheng, Y., dan Weibel, R., 2019, Transport Mode Detection Based on Mobile Phone Network Data: A Systematic Review, *Transportation Research Part C: Emerging Technologies*, Vol. 101, pp 297–312

Huang, Z., Ling, X., Wang, P., Zhang, F., Mao, Y., Lin, T., dan Wang, F.-Y., 2018, Modeling real-time human mobility based on mobile phone and transportation data fusion, *Transportation research part C: emerging technologies*, Vol. 96, pp 251–269

Huang, J., Obracht-Prondzynska, H., Kamrowska-Zaluska, D., Sun, Y., dan Li, L., 2021, The Image of the City on Social Media: A Comparative Study Using "Big Data" and "Small Data" Methods in the Tri-City Region in Poland, *Landscape and Urban Planning*, Vol. 206, pp 103977

Huang, J., Wang, H., Fan, M., Zhuo, A., Sun, Y., dan Li, Y., 2020, Understanding the impact of the COVID-19 pandemic on transportation-related behaviors with human mobility data, hlm. 3443–3450, dalam *Proceedings of the 26th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining*

Hwang, J. H., Kim, H., Cho, S., Bellemans, T., Lee, W. D., Choi, K., Cheon, S. H., dan Joh, C.-H., 2015, Improved method for validating the simulated travel behavior by using both the smart card and navigation data, hlm. 104–110, dalam *Proceedings of the 20th International Conference of Hong Kong Society for Transportation Studies, HKSTS 2015: Urban Transport Analytics*, Hong Kong Society for Transportation Studies Limited

Iqbal, M. S., Choudhury, C. F., Wang, P., dan González, M. C., 2014a, Development of origin-destination matrices using mobile phone call data, *Transportation Research Part C: Emerging Technologies*, Vol. 40, pp 63–74

Iqbal, M. S., Choudhury, C. F., Wang, P., dan González, M. C., 2014b, Development of origin–destination matrices using mobile phone call data, *Transportation Research Part C: Emerging Technologies*, Vol. 40, pp 63–74

Jacques, D. C., 2018, Mobile Phone Metadata for Development

Jakarta Smart City Traffic Safety Technical Report by Pulse Lab Jakarta - Issuu, https://issuu.com/pulselabjakarta/docs/jakarta_smart_city_traffic_safety_t , diakses tanggal 21 September 2022.

Pemodelan Sebaran Perjalanan Berbasis Mobile Network Big Data (MNBD) (Studi Kasus: DKI Jakarta)
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Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Jayanthi, M. D., Sumathi, G., dan Sriperumbudur, S., 2016, A framework for real-time streaming analytics using machine learning approach, dalam *Proceedings of national conference on communication and informatics-2016*

Jiang, S., Ferreira, J., dan Gonzalez, M. C., 2017, Activity-based human mobility patterns inferred from mobile phone data: A case study of Singapore, *IEEE Transactions on Big Data*, Vol. 3, no. 2, pp 208–219

Jin, P. J., Cebelak, M., Yang, F., Zhang, J., Walton, C. M., dan Ran, B., 2014, Location-based social networking data: exploration into use of doubly constrained gravity model for origin–destination estimation, *Transportation Research Record*, Vol. 2430, no. 1, pp 72–82

Jones, P. M., Dix, M. C., Clarke, M. I., dan Heggie, I. G., 1983, *Understanding travel behaviour*

Joseph, L., Neven, A., Martens, K., Kweka, O., Wets, G., dan Janssens, D., 2020, Measuring Individuals' Travel Behaviour by Use of a GPS-Based Smartphone Application in Dar Es Salaam, Tanzania, *Journal of Transport Geography*, Vol. 88, pp 102477

Kaffash, S., Nguyen, A. T., dan Zhu, J., 2021, Big Data Algorithms and Applications in Intelligent Transportation System: A Review and Bibliometric Analysis, *International Journal of Production Economics*, Vol. 231, pp 107868

Kanchana, N. dan Abinaya, N., 2015, Mobile data mining-using mobile device management system (MDM), dalam *Proceedings of the UGC Sponsored National Conference on Advanced Networking and Applications*

Kapoor, A., Ben, X., Liu, L., Perozzi, B., Barnes, M., Blais, M., dan O'Banion, S., 2020, Examining covid-19 forecasting using spatio-temporal graph neural networks, *arXiv preprint arXiv:2007.03113*, Advance Access published 2020

Karami, Z. dan Kashef, R., 2020, Smart Transportation Planning: Data, Models, and Algorithms, *Transportation Engineering*, Vol. 2, pp 100013

Krause, C. M. dan Zhang, L., 2019, Short-term travel behavior prediction with GPS, land use, and point of interest data, *Transportation Research Part B: Methodological*, Vol. 123, pp 349–361

Lahrmann, H., 2005, Floating car data for traffic monitoring, Advance Access published 1 Januari 2005

Lakoju, M. dan Serrano, A., 2017, Saving costs with a big data strategy framework, hlm. 2340–2347, dalam 2017 IEEE International Conference on Big Data (Big Data) –, *2017 IEEE International Conference on Big Data (Big Data)*

Lam, W. H. K. dan Lo, H. P., 1991, Estimation of origin-destination matrix from traffic counts: a comparison of entropy maximizing and information minimizing models, *Transportation Planning and Technology*, Vol. 16, no. 2, pp 85–104

Larijani, A. N., Olteanu-Raimond, A.-M., Perret, J., Brédif, M., dan Ziemlicki, C., 2015, Investigating the mobile phone data to estimate the origin destination flow and analysis; case study: Paris region, *Transportation Research Procedia*, Vol. 6, pp 64–78

Lee, W. S., Han, E. J., dan Sohn, S. Y., 2015, Predicting the pattern of technology convergence using big-data technology on large-scale triadic patents, *Technological Forecasting and Social Change*, Vol. 100, pp 317–329

Pemodelan Sebaran Perjalanan Berbasis Mobile Network Big Data (MNBD) (Studi Kasus: DKI Jakarta)
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Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Lee, J.-G. dan Kang, M., 2015, Geospatial Big Data: Challenges and Opportunities, *Big Data Research*, Vol. 2, no. 2, pp 74–81

Lee, J. dan Lee, J., 2019, Spatial clustering of Seoul's elderly captive riders using smart card spatial autocorrelation analysis, *Sensors and Materials*, Vol. 31, no. 11, pp 3859–3870

Leone, D. A., Novianto, H., Setiawan, R., Gilbert, T., dan Hanafiah, N., 2021, A Survey: Crowds Detection Method on Public Transportation, hlm. 258–262, dalam 2021 1st International Conference on Computer Science and Artificial Intelligence (ICCSAI) –, *2021 1st International Conference on Computer Science and Artificial Intelligence (ICCSAI)*

Leurent, F., Sun, D., dan Xie, X., 2023, On Heterogenous Sampling Rates in Origin–Destination Matrix Estimation Based on Trajectory Data and Link Counts, *Transportation Research Record*, Vol. 2677, no. 1, pp 1169–1180

Li, D., Cao, J., Li, R., dan Wu, L., 2020, A Spatio-Temporal Structured LSTM Model for Short-Term Prediction of Origin-Destination Matrix in Rail Transit with Multisource Data, *IEEE Access*, Vol. 8, pp 84000–84019

Li, Y., Zhao, W., dan Fan, H., 2022, A Spatio-Temporal Graph Neural Network Approach for Traffic Flow Prediction, *Mathematics*, Vol. 10, no. 10, pp 1754

Lin, Y., Wang, P., dan Ma, M., 2017, Intelligent transportation system (ITS): Concept, challenge and opportunity, hlm. 167–172, dalam *2017 ieee 3rd international conference on big data security on cloud (bigdatasecurity), ieee international conference on high performance and smart computing (hpsc), and ieee international conference on intelligent data and security (ids)*, IEEE

Liu, M., Gao, H., dan Ji, S., 2020, Towards deeper graph neural networks, hlm. 338–348, dalam *Proceedings of the 26th ACM SIGKDD international conference on knowledge discovery & data mining*

Lokanathan, S., Kreindler, G. E., de Silva, N. N., Miyauchi, Y., Dhananjaya, D., dan Samarajiva, R., 2016, The potential of mobile network big data as a tool in Colombo's transportation and urban planning, *Information Technologies & International Development*, Vol. 12, no. 2, pp pp-63

Ma, J., Li, H., Yuan, F., dan Bauer, T., 2013, Deriving operational origin-destination matrices from large scale mobile phone data, *International Journal of Transportation Science and Technology*, Vol. 2, no. 3, pp 183–204

Mahmood, A., Zen, H., dan Hilles, S., 2018, Big data and privacy issues for connected vehicles in intelligent transportation systems, *arXiv preprint arXiv:1806.02944*, Advance Access published 2018

Majore, G., Fjodorovs, A., Zake, M., Majors, I., dan Kepka, M., 2017, Integration of Web Map Application and Simulation Modeling Tools for Sustainability Analysis in Regional Development, *Procedia Computer Science*, Vol. 104, pp 213–221

Mamei, M., Bicocchi, N., Lippi, M., Mariani, S., dan Zambonelli, F., 2019a, Evaluating origin–destination matrices obtained from CDR data, *Sensors (Switzerland)*, Vol. 19, no. 20

Mamei, M., Bicocchi, N., Lippi, M., Mariani, S., dan Zambonelli, F., 2019b, Evaluating origin–destination matrices obtained from CDR data, *Sensors*, Vol. 19, no. 20, pp 4470

Pemodelan Sebaran Perjalanan Berbasis Mobile Network Big Data (MNBD) (Studi Kasus: DKI Jakarta)
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Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Martin, B. D., Addona, V., Wolfson, J., Adomavicius, G., dan Fan, Y., 2017, Methods for real-time prediction of the mode of travel using smartphone-based GPS and accelerometer data, *Sensors*, Vol. 17, no. 9, pp 2058

Matyas, M. dan Kamargianni, M., 2019, The potential of mobility as a service bundles as a mobility management tool, *Transportation*, Vol. 46, no. 5, pp 1951–1968

Maulana, A., Santoso, I., dan Rizki, M., 2022, Origin Destination Matrix Estimation for Increasing Traffic Survey Efficiency, *Journal of the Eastern Asia Society for Transportation Studies*, Vol. 14, pp 501–510

May, A. D., 1990, *Traffic flow fundamentals*

Miller, H. J., 2017, Time geography and space-time prism, *International encyclopedia of geography: People, the earth, environment and technology*, Vol. 1

Miller, H. J., 2018, Time geography, *Handbook of Behavioral and Cognitive Geography*, pp 74–94

Misra, A., Gooze, A., Watkins, K., Asad, M., dan Le Dantec, C. A., 2014, Crowdsourcing and its application to transportation data collection and management, *Transportation Research Record*, Vol. 2414, no. 1, pp 1–8

Mitra, A., Attanasi, A., Meschini, L., dan Gentile, G., 2020, Methodology for O-D matrix estimation using the revealed paths of floating car data on large-scale networks, *IET Intelligent Transport Systems*, Vol. 14, no. 12, pp 1704–1711

Mohammadi, M., Al-Fuqaha, A., Sorour, S., dan Guizani, M., 2018, Deep learning for IoT big data and streaming analytics: A survey, *IEEE Communications Surveys & Tutorials*, Vol. 20, no. 4, pp 2923–2960

Montoya-Torres, J. R., Moreno, S., Guerrero, W. J., dan Mejía, G., 2021, Big data analytics and intelligent transportation systems, *IFAC-PapersOnLine*, Vol. 54, no. 2, pp 216–220

Mora-Garcia, R.-T., 2018, A Comparative Analysis of Manhattan, Euclidean, and Network Distances. Why Are Network Distance More Useful To Urban Professionals?, dalam 18th International Multidisciplinary Scientific GeoConference SGEM2018 –

Naikoo, M. W., Rihan, M., Ishtiaque, M., dan Shahfahad, 2020, Analyses of Land Use Land Cover (LULC) Change and Built-up Expansion in the Suburb of a Metropolitan City: Spatio-Temporal Analysis of Delhi NCR Using Landsat Datasets, *Journal of Urban Management*, Vol. 9, no. 3, pp 347–359

Neira-Rodado, D., Nugent, C., Cleland, I., Velasquez, J., dan Viloria, A., 2020, Evaluating the Impact of a Two-Stage Multivariate Data Cleansing Approach to Improve to the Performance of Machine Learning Classifiers: A Case Study in Human Activity Recognition, *Sensors*, Vol. 20, no. 7, pp 1858

Neumann, P. dan Kunkel, J., 2020, Chapter 7 - High-Performance Techniques for Big Data Processing, hlm. 137–158, dalam Škoda, P. dan Adam, F. (ed.), *Knowledge Discovery in Big Data from Astronomy and Earth Observation*, Elsevier

Nguyen, T. H., Jones, S. D., Soto-Berelov, M., Haywood, A., dan Hislop, S., 2018, A Spatial and Temporal Analysis of Forest Dynamics Using Landsat Time-Series, *Remote Sensing of Environment*, Vol. 217, pp 461–475

Pemodelan Sebaran Perjalanan Berbasis Mobile Network Big Data (MNBD) (Studi Kasus: DKI Jakarta)
Okkie Putriani, Prof. Ir. Sigit Priyanto, M.Sc., Ph.D.; Dr.Eng. Ir. Imam Muthohar, S.T., M.T., IPM.; M. Rizka Fahmi Am
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Nieuwenhuijsen, M. J., 2020, Urban and transport planning pathways to carbon neutral, liveable and healthy cities; A review of the current evidence, *Environment international*, Vol. 140, pp 105661

Nigro, M., Cipriani, E., dan del Giudice, A., 2018, Exploiting floating car data for time-dependent Origin–Destination matrices estimation, *Journal of Intelligent Transportation Systems*, Vol. 22, no. 2, pp 159–174

Nikolic, M. dan Bierlaire, M., 2017, Review of transportation mode detection approaches based on smartphone data, dalam *17th Swiss Transport Research Conference*

Nilsson, M. dan Küller, R., 2000, Travel behaviour and environmental concern, *Transportation Research Part D: Transport and Environment*, Vol. 5, no. 3, pp 211–234

Ning, Z., Sun, S., Wang, X., Guo, L., Guo, S., Hu, X., Hu, B., dan Kwok, R., 2021, Blockchain-enabled intelligent transportation systems: a distributed crowdsensing framework, *IEEE Transactions on Mobile Computing*, Advance Access published 2021

Nitsche, P., Widhalm, P., Breuss, S., Brändle, N., dan Maurer, P., 2014, Supporting Large-Scale Travel Surveys with Smartphones – A Practical Approach, *Transportation Research Part C: Emerging Technologies*, Vol. 43, pp 212–221

Nitti, M., Pinna, F., Pintor, L., Pilloni, V., dan Barabino, B., 2020, IABACUS: A Wi-Fi-Based Automatic Bus Passenger Counting System, *Energies*, Vol. 13, no. 6, pp 1446

Okamoto, K. dan Arai, Y., 2018, Time-geography in Japan: Its application to urban life, hlm. 19–40, dalam *Time Geography in the Global Context*, Routledge

Paľo, J., Caban, J., Kiktová, M., dan Černický, Ľ., 2019, The Comparison of Automatic Traffic Counting and Manual Traffic Counting, *IOP Conference Series: Materials Science and Engineering*, Vol. 710, no. 1, pp 012041

Pan, C., Lu, J., Di, S., dan Ran, B., 2006, Cellular-based data-extracting method for trip distribution, *Transportation research record*, Vol. 1945, no. 1, pp 33–39

Parwez, M. S., Rawat, D. B., dan Garuba, M., 2017, Big data analytics for user-activity analysis and user-anomaly detection in mobile wireless network, *IEEE Transactions on Industrial Informatics*, Vol. 13, no. 4, pp 2058–2065

Peng, J., Chen, L., dan Zhang, B., 2022, Transportation planning for sustainable supply chain network using big data technology, *Information Sciences*, Vol. 609, pp 781–798

Peng, H., Wang, H., Du, B., Bhuiyan, M. Z. A., Ma, H., Liu, J., Wang, L., Yang, Z., Du, L., Wang, S., dan Yu, P. S., 2020, Spatial Temporal Incidence Dynamic Graph Neural Networks for Traffic Flow Forecasting, *Information Sciences*, Vol. 521, pp 277–290

Phithakkitnukoon, S., 2023, Modeling Trip Distribution Using Mobile Phone CDR Data, hlm. 45–73, dalam *Urban Informatics Using Mobile Network Data*, Springer

Phithakkitnukoon, S., Smoreda, Z., dan Olivier, P., 2012, Socio-geography of human mobility: A study using longitudinal mobile phone data, *PloS one*, Vol. 7, no. 6, pp e39253

Piovani, D., Arcaute, E., Uchoa, G., Wilson, A., dan Batty, M., 2018, Measuring accessibility using gravity and radiation models, *Royal Society open science*, Vol. 5, no. 9, pp 171668

UNIVERSITAS
GADJAH MADA
Pemodelan Sebaran Perjalanan Berbasis Mobile Network Big Data (MNBD) (Studi Kasus: DKI Jakarta)
Okkie Putriani, Prof. Ir. Sigit Priyanto, M.Sc., Ph.D.; Dr.Eng. Ir. Imam Muthohar, S.T., M.T., IPM.; M. Rizka Fahmi Am
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Poleto, T., Carvalho, V. D. H. de, dan Costa, A. P. C. S., 2015, The roles of big data in the decision-support process: an empirical investigation, hlm. 10–21, dalam *International conference on decision support system technology*, Springer

Putriani, O. dan Priyanto, S., 2019, Optimization Big Data Real-time Analytics Using Mobile Phone Data in Origin Destination National Transportation (ATTN) Survey, hlm. 112–117, dalam 11th Asia Pacific Transportation and the Environment Conference (APTE 2018) –, Atlantis Press

Putriani, O., Priyanto, S., Muthohar, I., dan Amrozi, M. R. F., 2023a, Millimetre Wave and Sub-6 5G Readiness of Mobile Network Big Data for Public Transport Planning, *Sustainability*, Vol. 15, no. 1, pp 672

Putriani, O., Priyanto, S., Muthohar, I., dan Amrozi, M. R. F., 2023b, Aggregate Human Mobility Using Mobile Network Big Data, hlm. 58–66, dalam International Conference on Railway and Transportation (ICORT 2022) –, *Proceedings of the International Conference on Railway and Transportation (ICORT 2022)*, Atlantis Press

Rashidi, T. H., Abbasi, A., Maghrebi, M., Hasan, S., dan Waller, T. S., 2017, Exploring the capacity of social media data for modelling travel behaviour: Opportunities and challenges, *Transportation Research Part C: Emerging Technologies*, Vol. 75, pp 197–211

Rathnayaka, B. A., 2020, *Developing a trip distribution model for identified mobility groups using big data*, PhD Thesis

Ravazzolo, D., Mao, L., Picco, L., dan Lenzi, M. A., 2015, Tracking Log Displacement during Floods in the Tagliamento River Using RFID and GPS Tracker Devices, *Geomorphology*, Vol. 228, pp 226–233

Razaq, A., Tianfield, H., dan Barrie, P., 2016, A big data analytics based approach to anomaly detection, hlm. 187–193, dalam *Proceedings of the 3rd IEEE/ACM international conference on big data computing, applications and technologies*

ur Rehman, M. H., Liew, C. S., dan Wah, T. Y., 2014, Frequent pattern mining in mobile devices: A feasibility study, hlm. 351–356, dalam *Proceedings of the 6th International Conference on Information Technology and Multimedia*, IEEE

Richardson, A. J., Ampt, E. S., dan Meyburg, A. H., 1995, *Survey methods for transport planning*, Eucalyptus Press Melbourne

Ridzuan, F. dan Wan Zainon, W. M. N., 2019, A Review on Data Cleansing Methods for Big Data, *Procedia Computer Science*, Vol. 161, pp 731–738

Riyanto, A. D., 2023, Hootsuite (We are Social): Indonesian Digital Report 2022 – Andi Dwi Riyanto, Dosen, Praktisi, Konsultan, Pembicara: E-bisnis/Digital Marketing/Promotion/Internet marketing, SEO, Technopreneur, Fasilitator Google Gapura Digital yogyakarta, *Hootsuite (We are Social): Indonesian Digital Report 2022*

Rizki, M., Joewono, T. B., Belgiawan, P. F., dan Irawan, M. Z., 2021, The travel behaviour of ride-sourcing users, and their perception of the usefulness of ride-sourcing based on the users' previous modes of transport: A case study in Bandung City, Indonesia, *IATSS research*, Vol. 45, no. 2, pp 267–276

Rowe, F., 2021, *Big Data and Human Geography*, http://dx.doi.org/10.31235/osf.io/phz3e , diakses tanggal 29 Mei 2023.

Pemodelan Sebaran Perjalanan Berbasis Mobile Network Big Data (MNBD) (Studi Kasus: DKI Jakarta)
Okkie Putriani, Prof. Ir. Sigit Priyanto, M.Sc., Ph.D.; Dr.Eng. Ir. Imam Muthohar, S.T., M.T., IPM.; M. Rizka Fahmi Am
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Safitri, R., Santoso, I., dan Wibowo, S. S., 2016, ESTIMASI MATRIKS ASAL TUJUAN BERDASARKAN DATA TELEPON SELULER: STUDI KASUS PROVINSI BALI, *Jurnal Transportasi*, Vol. 16, no. 1

Salter, R. J. dan Hounsell, N. B., 1996, *Highway traffic analysis and design*, Bloomsbury Publishing

Sampaio, C., Coelho, M. C., Macedo, E., dan Bandeira, J. M., 2022, Mapping of individual transportation traffic-related externalities in an intercity corridor, *Transportation Research Procedia*, Vol. 62, pp 672–679

Scarselli, F., Gori, M., Tsoi, A. C., Hagenbuchner, M., dan Monfardini, G., 2008, The graph neural network model, *IEEE transactions on neural networks*, Vol. 20, no. 1, pp 61–80

Setiyono, B., Sulistyaningrum, D. R., dan Alfahmi, M. F. F., 2022, Big data prototype development in Hadoop ecosystem using HDFS and mapreduce as the parallel computation model-Case study: Samples of intelligent transportation of Surabaya City, hlm. 040008, dalam *AIP Conference Proceedings*, AIP Publishing LLC

Si\la-Nowicka, K., Vandrol, J., Oshan, T., Long, J. A., Demšar, U., dan Fotheringham, A. S., 2016, Analysis of human mobility patterns from GPS trajectories and contextual information, *International Journal of Geographical Information Science*, Vol. 30, no. 5, pp 881–906

Sinaeepourfard, A., Krogstie, J., Petersen, S. A., dan Gustavsen, A., 2018, A Zero Emission Neighbourhoods Data Management Architecture for Smart City Scenarios: Discussions toward 6Vs challenges, hlm. 658–663, dalam 2018 International Conference on Information and Communication Technology Convergence (ICTC) –, *2018 International Conference on Information and Communication Technology Convergence (ICTC)*

Siuhi, S. dan Mwakalonge, J., 2016, Opportunities and Challenges of Smart Mobile Applications in Transportation, *Journal of Traffic and Transportation Engineering (English Edition)*, Vol. 3, no. 6, pp 582–592

Socharoentum, M. dan Karimi, H. A., 2015, A comparative analysis of routes generated by Web Mapping APIs, *Cartography and Geographic Information Science*, Vol. 42, no. 1, pp 33–43

Sollins, K. R., 2019, IoT big data security and privacy versus innovation, *IEEE Internet of Things Journal*, Vol. 6, no. 2, pp 1628–1635

Sun, Y., Lang, M., dan Wang, D., 2015, Optimization models and solution algorithms for freight routing planning problem in the multi-modal transportation networks: a review of the state-of-the-art, *The Open Civil Engineering Journal*, Vol. 9, no. 1

Susanti, D. dan Hantoro, P. D., 2022, Indonesian Netizens' Digital Self and Identity Creation on Social Media, *Komunikator*, Vol. 14, no. 2, pp 104–113

Ta, X., Liu, Z., Hu, X., Yu, L., Sun, L., dan Du, B., 2022, Adaptive spatio-temporal graph neural network for traffic forecasting, *Knowledge-Based Systems*, Vol. 242, pp 108199

Tal, G. dan Handy, S., 2010, Travel behavior of immigrants: An analysis of the 2001 National Household Transportation Survey, *Transport Policy*, Vol. 17, no. 2, pp 85–93

Tamin, O. Z., 2008, Perencanaan, Pemodelan dan Rekayasa Transportasi, *Bandung: Penerbit ITB*, Advance Access published 2008

Pemodelan Sebaran Perjalanan Berbasis Mobile Network Big Data (MNBD) (Studi Kasus: DKI Jakarta)
Okkie Putriani, Prof. Ir. Sigit Priyanto, M.Sc., Ph.D.; Dr.Eng. Ir. Imam Muthohar, S.T., M.T., IPM.; M. Rizka Fahmi Am
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Tamin, O. Z., Heriansyah, dan Fadilah, S. R., 2021, Implementation of Big Data to Develop Origin-Destination Matrix Estimation Model, *IOP Conference Series: Earth and Environmental Science*, Vol. 830, no. 1, pp 012097

Tamin, O. Z., Santoso, I., dan Susilo, Y. O., 2020, The Development of Maximum-Entropy (ME) Estimation For Calibrating Transport Demand Models Based On Link Volumes, dalam Second Asia Pacific Conference & Exhibition on Transportation and The Environment, Beijing –

Tang, J., Liu, F., Wang, Y., dan Wang, H., 2015, Uncovering Urban Human Mobility from Large Scale Taxi GPS Data, *Physica A: Statistical Mechanics and its Applications*, Vol. 438, pp 140–153

Tao, S., Manolopoulos, V., Rodriguez Duenas, S., dan Rusu, A., 2012, Real-time urban traffic state estimation with A-GPS mobile phones as probes, *Journal of Transportation Technologies*, Vol. 2, no. 1, pp 22–31

Tasgaonkar, P. P., Garg, R. D., dan Garg, P. K., 2020, Vehicle Detection and Traffic Estimation with Sensors Technologies for Intelligent Transportation Systems, *Sensing and Imaging*, Vol. 21, no. 1, pp 29

Tesselkin, A. dan Khabarov, V., 2017, Estimation of Origin-Destination Matrices Based on Markov Chains, *Procedia Engineering*, Vol. 178, pp 107–116

Thakuriah, P. (Vonu), Tilahun, N. Y., dan Zellner, M., 2017, Big Data and Urban Informatics: Innovations and Challenges to Urban Planning and Knowledge Discovery, hlm. 11–45, dalam Thakuriah, P. (Vonu), Tilahun, N., dan Zellner, M. (ed.), *Seeing Cities Through Big Data: Research, Methods and Applications in Urban Informatics*, Springer International Publishing, Cham

Toqué, F., Côme, E., El Mahrsi, M. K., dan Oukhellou, L., 2016, Forecasting dynamic public transport Origin-Destination matrices with long-Short term Memory recurrent neural networks, hlm. 1071–1076, dalam 2016 IEEE 19th International Conference on Intelligent Transportation Systems (ITSC) –, *2016 IEEE 19th International Conference on Intelligent Transportation Systems (ITSC)*

Torre-Bastida, A. I., Del Ser, J., Laña, I., Ilardia, M., Bilbao, M. N., dan Campos-Cordobés, S., 2018, Big Data for transportation and mobility: recent advances, trends and challenges, *IET Intelligent Transport Systems*, Vol. 12, no. 8, pp 742–755

Townsend, A. M., 2013, *Smart cities: Big data, civic hackers, and the quest for a new utopia*, WW Norton & Company

Treiber, M. dan Kesting, A., 2013, Traffic flow dynamics, *Traffic Flow Dynamics: Data, Models and Simulation, Springer-Verlag Berlin Heidelberg*, pp 983–1000

Tsumura, Y., Asada, Y., Kanasugi, H., Arai, A., Shibasaki, R., Kawaguchi, H., dan Yamada, K., 2022, Examining Potentials and Practical Constraints of Mobile Phone Data for Improving Transport Planning in Developing Countries, *Asian Transport Studies*, Vol. 8, pp 100043

Ularu, E. G., Puican, F. C., Apostu, A., dan Velicanu, M., 2012, Perspectives on big data and big data analytics, *Database Systems Journal*, Vol. 3, no. 4, pp 3–14

Usrina, N., Mukhlis, Erlita, dan Lestari, Y., 2022, Analisis Model Sebaran Perjalanan Kerja Masyarakat Kota Lhokseumawe Menggunakan Metode Gravity (Studi Kasus: Kecamatan Banda Sakti),

UNIVERSITAS
GADJAH MADA
Pemodelan Sebaran Perjalanan Berbasis Mobile Network Big Data (MNBD) (Studi Kasus: DKI Jakarta)
Okkie Putriani, Prof. Ir. Sigit Priyanto, M.Sc., Ph.D.; Dr.Eng. Ir. Imam Muthohar, S.T., M.T., IPM.; M. Rizka Fahmi Am
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Prosiding Seminar Nasional Fakultas Teknik Universitas Malikussaleh Tahun 2022, pp 1166–1174

Van Acker, V., Van Wee, B., dan Witlox, F., 2010, When transport geography meets social psychology: toward a conceptual model of travel behaviour, *Transport Reviews*, Vol. 30, no. 2, pp 219–240

Veenendaal, B., Brovelli, M. A., dan Li, S., 2017, Review of web mapping: Eras, trends and directions, *ISPRS International Journal of Geo-Information*, Vol. 6, no. 10, pp 317

Wang, F. dan Chen, C., 2018, On data processing required to derive mobility patterns from passively-generated mobile phone data, *Transportation Research Part C: Emerging Technologies*, Vol. 87, pp 58–74

Wang, Z., He, S. Y., dan Leung, Y., 2018, Applying mobile phone data to travel behaviour research: A literature review, *Travel Behaviour and Society*, Vol. 11, pp 141–155

Wang, F. dan Xu, Y., 2011, Estimating O–D travel time matrix by Google Maps API: implementation, advantages, and implications, *Annals of GIS*, Vol. 17, no. 4, pp 199–209

Wang, A., Zhang, A., Chan, E. H., Shi, W., Zhou, X., dan Liu, Z., 2020, A review of human mobility research based on big data and its implication for smart city development, *ISPRS International Journal of Geo-Information*, Vol. 10, no. 1, pp 13

Watada, J., Roy, A., dan Vasant, P., 2020, Preference Identification Based on Big Data Mining for Customer Responsibility Management., *International Journal of Intelligent Technologies & Applied Statistics*, Vol. 13, no. 1

Wu, Z., Pan, S., Chen, F., Long, G., Zhang, C., dan Philip, S. Y., 2020, A comprehensive survey on graph neural networks, *IEEE transactions on neural networks and learning systems*, Vol. 32, no. 1, pp 4–24

Xia, D., Jiang, S., Yang, N., Hu, Y., Li, Y., Li, H., dan Wang, L., 2021, Discovering spatiotemporal characteristics of passenger travel with mobile trajectory big data, *Physica A: Statistical Mechanics and its Applications*, Vol. 578, pp 126056

Xia, F., Wang, J., Kong, X., Wang, Z., Li, J., dan Liu, C., 2018, Exploring human mobility patterns in urban scenarios: A trajectory data perspective, *IEEE Communications Magazine*, Vol. 56, no. 3, pp 142–149

Xie, C., Kockelman, K. M., dan Waller, S. T., 2011, A Maximum Entropy-Least Squares Estimator for Elastic Origin-Destination Trip Matrix Estimation, *Procedia - Social and Behavioral Sciences*, Vol. 17, pp 189–212

Xu, Y., Shaw, S.-L., Zhao, Z., Yin, L., Lu, F., Chen, J., Fang, Z., dan Li, Q., 2016, Another tale of two cities: Understanding human activity space using actively tracked cellphone location data, *Annals of the American Association of Geographers*, Vol. 106, no. 2, pp 489–502

Xu, Y., Zou, D., Park, S., Li, Q., Zhou, S., dan Li, X., 2022, Understanding the Movement Predictability of International Travelers Using a Nationwide Mobile Phone Dataset Collected in South Korea, *Computers, Environment and Urban Systems*, Vol. 92, pp 101753

Yang, Y. dan Sun, J., 2013, Study on Pedestrian Red-Time Crossing Behavior: Integrated Field Observation and Questionnaire Data, *Transportation Research Record*, Vol. 2393, no. 1, pp 117–124

UNIVERSITAS
GADJAH MADA
Pemodelan Sebaran Perjalanan Berbasis Mobile Network Big Data (MNBD) (Studi Kasus: DKI Jakarta)
Okkie Putriani, Prof. Ir. Sigit Priyanto, M.Sc., Ph.D.; Dr.Eng. Ir. Imam Muthohar, S.T., M.T., IPM.; M. Rizka Fahmi Am
Universitas Gadjah Mada, 2023 | Diunduh dari http://etd.repository.ugm.ac.id/

Yang, H., Zhang, L., Cheng, L.-C., dan Gao, C., 2019, *Research on travel features of car based on RFID big data in Chongqing main city*, Springer Verlag

Yogatama, A. K., Sutapa, J. S., Putriani, O., dan Mahardhika, S. P., 2022, MaaS Implementation in Bandung City: Big Data Collection, Integration, and Utilization, *Inersia: Jurnal Teknik Sipil dan Arsitektur*, Vol. 18, no. 2

Yu, B., Yin, H., dan Zhu, Z., 2017, Spatio-temporal graph convolutional networks: A deep learning framework for traffic forecasting, *arXiv preprint arXiv:1709.04875*, Advance Access published 2017

Yuan, H. dan Li, G., 2021, A survey of traffic prediction: from spatio-temporal data to intelligent transportation, *Data Science and Engineering*, Vol. 6, no. 1, pp 63–85

Zhang, D., 2018, Big data security and privacy protection, hlm. 275–278, dalam *8th international conference on management and computer science (ICMCS 2018)*, Atlantis Press

Zhang, C. dan Li, W., 2005, The roles of web feature and web map services in real-time geospatial data sharing for time-critical applications, *Cartography and Geographic Information Science*, Vol. 32, no. 4, pp 269–283

Zhao, X., Yan, X., Yu, A., dan Van Hentenryck, P., 2020, Prediction and behavioral analysis of travel mode choice: A comparison of machine learning and logit models, *Travel behaviour and society*, Vol. 20, pp 22–35

Zheng, X., Chen, W., Wang, P., Shen, D., Chen, S., Wang, X., Zhang, Q., dan Yang, L., 2015, Big data for social transportation, *IEEE Transactions on Intelligent Transportation Systems*, Vol. 17, no. 3, pp 620–630

Zhong, C., Arisona, S. M., Huang, X., Batty, M., dan Schmitt, G., 2014, Detecting the dynamics of urban structure through spatial network analysis, *International Journal of Geographical Information Science*, Vol. 28, no. 11, pp 2178–2199

Zhong, G., Yin, T., Zhang, J., He, S., dan Ran, B., 2019, Characteristics analysis for travel behavior of transportation hub passengers using mobile phone data, *Transportation*, Vol. 46, pp 1713–1736

Zhou, J., Cui, G., Hu, S., Zhang, Z., Yang, C., Liu, Z., Wang, L., Li, C., dan Sun, M., 2020, Graph neural networks: A review of methods and applications, *AI open*, Vol. 1, pp 57–81

Zhou, Y., Lau, B. P. L., Yuen, C., Tunçer, B., dan Wilhelm, E., 2018, Understanding urban human mobility through crowdsensed data, *IEEE Communications Magazine*, Vol. 56, no. 11, pp 52–59

Zhu, F., Lv, Y., Chen, Y., Wang, X., Xiong, G., dan Wang, F.-Y., 2019, Parallel transportation systems: Toward IoT-enabled smart urban traffic control and management, *IEEE Transactions on Intelligent Transportation Systems*, Vol. 21, no. 10, pp 4063–4071