

DAFTAR PUSTAKA

- Adelina, S., Rachmawati, R. (2015). Penyediaan dan Pemanfaatan Layanan Sistem Informasi Transportasi Berbasis Internet di Kota Jakarta. *Jurnal Bumi Indonesia*, vol 4 (3), hal 1-11.
- Aleko, D., Djahel, S. (2020). An Efficient Adaptive Traffic Light Control System for Urban Road Traffic Congestion Reduction in Smart Cities. *Information*, vol 11 (119), hal 1-20.
- Badan Penanggulangan Bencana Daerah DKI Jakarta 2020, *Infografis Kejadian Bencana Provinsi DKI Jakarta*, <https://bpbd.jakarta.go.id/>, diakses tanggal 27 Desember 2021 pukul 20.03 WIB.
- Badan Pusat Statistik (BPS) DKI Jakarta. (2021). *Provinsi DKI Jakarta dalam Angka 2021*. Jakarta: Badan Pusat Statistik.
- Badan Pusat Statistik. (2019). *Statistik Komuter Jabodetabek, Hasil Survei Komuter Jabodetabek 2019*. Jakarta: Badan Pusat Statistik.
- Bickel, P., Chan, C., Kwon, J. (2007). Measuring Traffic. *Statistic Science*, vol 22 (4), hal 581-587.
- Bowen, G. (2006). Grounded Theory and Sensitizing Concepts. *International Journal of Qualitative Methods*, vol 5 (3), hal 12-23.
- Chavhan, S., Venkataram, P. (2017a). Commuter's Traffic Pattern and Prediction Analysis in A Metropolitan Area. *Journal on Vehicle Routing Algorithms*, vol 1 (1), hal 1-14.
- Chavhan, S., Venkataram, P. (2017b). Prediction Based Traffic Management in a Metropolitan Area. *Journal of Traffic and Transportation Engineering*, vol 7 (4), hal 447-466.
- Direktorat Bina Sarana Transportasi Perkotaan. (2012). *Evaluasi Penerapan Area Traffic Control System (ATCS) Di DKI Jakarta, Bandung, dan Surabaya*. Jakarta: Direktorat Bina Sarana Transportasi Perkotaan.
- Direktorat Jenderal Bina Marga. (1997). *Manual Kapasitas Jalan Indonesia (MKJI)*. Direktorat Bina Jalan Kota (Binkot) Republik Indonesia dan PT Bina Karya (Persero).

Direktorat Jenderal Perhubungan Darat Kementerian Perhubungan Republik Indonesia. (2013). *ATCS di Beberapa Provinsi dan Kota di Indonesia*. Diakses oleh Novirene Tania tanggal 29 Juli 2021 pukul 11.58 WIB, dari <http://hubdat.dephub.go.id/berita/1222-atcs-di-beberapa-provinsi-dan-kota-di-indonesia>.

Fatimah, S. (2019). *Pengantar Transportasi*. Kulonprogo: Myria Publisher

Federal Highway Administration U.S Department of Transportation. (1996). *Traffic Control Systems Handbook*. The Federal Highway Administration (FHWA).

Federal Highway Administration U.S Department of Transportation. (2009). *Traffic Signal Operations and Maintenance Staffing Guidelines*. The Federal Highway Administration (FHWA).

Feng, Y., Head, K., Khosmagham, S., Zamanipour, M. (2015). A Real-Time Adaptive Signal Control in a Connected Vehicle Environment. *Transportation Research Part C*, vol 55, hal 460-473.

Fujidak, R., Masek, P., Mlynek, P., Misurec, J. (2016). Advanced Optimization Method for Improving the Urban Traffic Management. *18th Conference of Open Innovations Association and Seminar on Information Security and Protection of Information Technology (FRUCT-ISPIT)*, hal 48-53.

Grote, M., Waterson, B., Rudolph, F. (2021). The Impact of Strategic Transport Policies on Future Urban Traffic Management Systems, *Transport Policy*, vol 110, hal 402-414.

He, F., Yan, X., Liu, Y., Ma, L. (2016). A Traffic Congestion Assessment Method for Urban Road Networks Based on Speed Performance Index. *Procedia Engineering*, vol 137, hal 425-433.

Healey, P. (1996). The communicative turn in planning theory and its implications for spatial strategy formation. *Environment and Planning. B, Planning & Design*, vol 23, hal 217-234.

Hillier, B., Penn, A., Hanson, J., Grajewski, T., Xu J. (1993). Natural Movement: Or, Configuration and Attraction in Urban Pedestrian Movement, *Environment and Planning B: Planning and Design*, vol 20, hal 29-66.

- Hobbs, F. (1995). *Perencanaan dan Teknik Lalu Lintas*. Yogyakarta: Gadjah Mada University Press.
- Irwanti., Samadikun, B., Huboyo, H. (2017). Pengaturan Manejemen Waktu *Area Traffic Control System* (ATCS) dalam Rangka Pengurangan Emisi Pencemar Udara Kendaraan Bermotor di Beberapa Persimpangan Jalan Kota Semarang. *Jurnal Teknik Lingkungan*, vol 6 (3), hal 1-10.
- Islam, M. (2018). Performance Evaluation of Flyovers Constructed Over Levelcrossings in Dhaka City. *Thesis*, Bangladesh: Department of Civil Engineering, Bangladesh University of Engineering and Technology.
- Khoirunnisa, N. F. (2012). *Aplikasi SIG untuk Analisis Interaksi Keruangan*. Semarang: Fakultas Teknik Universitas Diponegoro.
- Kurniati, N. (2019). Optimisasi Kinerja Area Traffic Control System (ATCS) di Kota Balikpapan. *Jurnal Penelitian Transportasi Darat*, vol 21 (2), hal 155-164.
- Kusnandar, E. (2011). *ITS untuk Indonesia*. Bandung: Kementerian Pekerjaan Umum, Badan Penelitian dan Pengembangan, Pusat Penelitian dan Pengembangan Jalan dan Jembatan.
- Lu, W. (2015). *Impact of Vehicular Communication Networks on Traffic Dynamics and Fuel Efficiency*. United Kingdom: Edward Elgar Publishing.
- Mamentu, S., Lefrandt, L., Timboeleng, J. (2019). Evaluasi Penerapan *Area Traffic Control System* (ATCS) pada Simpang Bersinyal (Studi Kasus: Persimpangan Telling). *Jurnal Sipil Statik*, vol 7 (2), hal 209-218.
- Mandhare, P., Kharat, V., Patil, C. (2018). Intelligent Road Traffic Control System for Traffic Congestion: a Perspective. *International Journal of Computer Science and Engineering*, vol 6 (7), hal 908-915.
- Matthews, J dan Herbert, D. (2008). *Geography A Very Short Introduction*. India: Ashford Colour Press Ltd, Gosport, Hampshire.
- McFadden, D. (1974). The Measurement of Urban Travel Demand. *Journal of Public Economics*, vol 3 (4), hal 303-328.

- McIntyre-Hite, L. (2016). A Delphi study of effective practices for developing competency-based learning models in higher education. *J. Compet-Based Educat*, vol 1 (4), hal 157-166.
- Nama, M., Nath., A., Bechra, N., Bhatia, J., Tanwar, S., Chaturvedi, M., Sadoun, B. (2021). Machine learning-based traffic scheduling techniques for intelligent transportation system: Opportunities and challenges. *International Journal of Communication Systems*, vol 34 (9), hal 1-25.
- Nasution, M. (2003). *Manajemen Transportasi*. Edisi Kedua. ISBN 9794503347. Jakarta: Ghalia Indonesia.
- Nellore, K., Hancke, G. (2016). A Survey on Urban Traffic Management System Using Wireless Sensor Networks. *Sensors*, vol 16 (2), hal 1-25.
- Noor, M. (2007). Studi Area Traffic Control System (ATCS) pada Persimpangan di Kota Malang (Jalan A. Yani – L.A. Sucipto – Borobudur). *Tesis*. Malang: Universitas Muhammadiyah Malang.
- Paiva, S., Ahad, M., Tripathi, G., Feroz, N., Casalino, G. (2021). Enabling Technologies for Urban Smart Mobility: Recent Trends, Opportunities and Challenges. *Sensors*, vol 21, hal 1-41.
- Pramanik, A., Sarkar, S., Maiti, J. (2021). A real-time video surveillance system for traffic pre-events detection. *Accident Analysis and Prevention*, vol 154, hal 1-21.
- Prasetya, A. (2016). Optimasi Sistem ATCS pada Simpang yang Berdekatan di Kota Malang (Kasus: Persimpangan PLN dan Persimpangan Rajabali). *Skripsi*, Malang: Fakultas Teknik Sipil dan Perencanaan Institut Teknologi Nasional.
- Rachmawati, R. (2014). *Pengembangan Perkotaan dalam Era Teknologi Informasi dan Komunikasi*. Yogyakarta: Gama Press.
- Rachmawati, R. (2019a). Toward Better City Management Through Smart City Implementation. *Journal of Studies and Research in Human Geography*, vol 13 (2), hal 209-218.
- Rachmawati, R. (2019b). ICT-Based Innovation in the Smart City Masterplan and Its Relation to Regional Planning. Dalam: *The 4rd International Conference in Planning in the 2019 Era of Uncertainty*. Hal 1-5.

- Rachmawati, R., Adelina, S. (2015). ICT and It's Role on Transportation Problems Case of Jakarta – Bekasi, Indonesia. *Proceeding of the 5th International Conference of Jabodetabek Study Forum*. Hal 537-443.
- Rachmawati, R., Rijanta, R., Djunaedi, A. (2015). Location Decentralization Due to The Use of Information and Communication Technology: Empirical Evidence From Yogyakarta, Indonesia. *Journal of Studies and Research in Human Geography*, vol 9 (1), hal 6-15.
- Raco, J. (2010). *Metode Penelitian Kualitatif Jenis, Karakteristik, dan Keunggulannya*. Jakarta: PT Gramedia Widiasarana Indonesia.
- Rafi, K. (2018). ICT in Development: A Contextual Approach. *Indian Journal of Human Development*, vol 12 (3), hal 1-9.
- Rodrigue, J. (2020). *The Geography of Transport Systems*. Fifth Edition. London and New York: Routledge Taylor & Francis Group.
- Roess, R., Prassas, E., McShane, W. (2011). *Traffic Engineering*. New York: Pearson.
- Roess, R., Prassas, E., McShane, W. (2019). *Traffic Engineering*. New York: Pearson.
- Rusmandani, P., Setiawan, R. (2020). Penerapan Area Traffic Control System Sebagai Implementasi Transportasi Berkelanjutan di Kota Tegal. *Jurnal Transportasi*, vol 20 (1), hal 19-26.
- Sadahiro, Y. (2006). *Spatial Analysis Using GIS*. Japan: University of Tokyo.
- Saputra, R. (2014). Analisis Perencanaan Penerapan Area Traffic Control System di Kota Pangkal Pinang. *Jurnal Teknik Sipil dan Lingkungan*, vol 2 (3), hal 350-356.
- Sofwan, A., Priyono, A., Sudaryanto, A. (2015). Urban Community Behavioral on the Traffic Light and Implementation of Intelligence Traffic Control System. Dalam: *1st International Conference on Science, Technology and Interdisicplinary Research 2015*. Hal 83-90.
- Stevanoic, A., Kergaye, C., Stevanoic, J. (2012). Long-Term Benefits of Adaptive Traffic Control Under Varying Traffic Flows During Weekdays Peak Hours.

Transportation Research Record: Journal of the Transportation Research Board, vol 1, hal 99-107.

Stimmel, C. (2016). *Building Smart Cities Analytics, ICT, and Design Thinking*. New York: CRC Press.

Sugiyono. (2019). *Metode Penelitian Kuantitatif Kualitatif*. Bandung: Penerbit Alfabeta.

Sutandi, A., Dia, H. (2005). Performance of Evaluation of an Advanced Traffic Control System in A Developing Country. *Proceeding of the Eastern Asia Society for Transportation Studies*. Hal 1572-1584.

Suyati, R. (2012). Implementasi “Intelligent Transportation System (ITS)” untuk Mengatasi Kemacetan lalu Lintas di DKI Jakarta. *Jurnal Konstruksia*, vol 3 (2), hal 13-21.

Taafe, E., Gauthier, H., Kelly, M. (1996). *Geography of Transportation*. Second Edition. New Jersey: Upper Saddle River.

Tahmasbi, B., Mansourianfar, M., Haghshenas, H., Kim, I. (2019). Multimodal Accesbility-Based Equity Assessment of Urban Public Facilities Distribution. *Sustainable Cities and Society*, vol 49, hal 1-22.

Tamin, O. (1997). *Perencanaan dan Pemodelan Transportasi*. Bandung: Penerbit ITB.

TomTom International BV. (2019). *Traffic Index 2019*. TomTom International BV.

Unit pengelola Statistik DKI Jakarta 2020, *Panjang Jalan di Provinsi DKI Jakarta Tahun 2019*, <https://statistik.jakarta.go.id/>, diakses 28 Desember 2021 pukul 10.45 WIB.

US Department of Transportation 2015, *Traffic Congestion and Reliability: Trends and Advanced Strategies for Congestion Mitigation*, https://ops.fhwa.dot.gov/congestion_report/chapter2.htm, diakses 5 Mei 2022 pukul 10.40 WIB.

Yunus, H. S. (2008). *Konsep dan Pendekatan Geografi: Memaknai Hakekat Keilmuannya*. Yogyakarta: Forum Pimpinan Pendidikan Tinggi Geografi Indonesia.

Zhu, F., Li, Z., Chen, S., Xiong, G. (2016). Parallel Transportation Management and Control System and Its Applications in Building Smart Cities. *IEEE Transactions on Intelligent Transportation Systems*, vol 17 (6), hal 1-10.

Zou, H., Yue, Y., Li, Q., Shi, Y. (2010). A Spatial Analysis Approach for Describing Spatial Pattern of Urban Traffic State. *Annual Conference on Intelligent Transportation Systems*, hal 557-562.

Undang-Undang/Peraturan Normatif

Keputusan Gubernur DKI Jakarta Nomor 1473 Tahun 2021 tentang Pemberlakuan Pembatasan Kegiatan Masyarakat Level 1 *Corona Virus Disease* 2019

Peraturan Daerah Provinsi DKI Jakarta Nomor 1 Tahun 2012 tentang Rencana Tata Ruang Wilayah 2030

Peraturan Daerah Provinsi DKI Jakarta Nomor 5 Tahun 2014 tentang Transportasi

Peraturan Gubernur Provinsi DKI Jakarta Nomor 80 Tahun 2020 tentang Pelaksanaan Pembatasan Sosial Berskala Besar pada Masa Transisi Menuju Masyarakat, Sehat, Aman, dan Produktif

Peraturan Pemerintah Nomor 30 Tahun 2021 tentang Penyelenggaraan Bidang Lalu Lintas dan Angkutan Jalan

Peraturan Pemerintah Republik Indonesia Nomor 32 Tahun 2011 tentang Manajemen dan Rekayasa, Analisis Dampak, serta Manajemen Kebutuhan Lalu Lintas

Peraturan Presiden Republik Indonesia Nomor 55 Tahun 2018 tentang Rencana Induk Transportasi Jakarta, Bogor, Depok, Tangerang, dan Bekasi Tahun 2018-2029

Peraturan Presiden Republik Indonesia Nomor 60 Tahun 2020 tentang Rencana Tata Ruang Kawasan Perkotaan Jakarta, Bogor, Depok, Tangerang, Bekasi, Puncak, dan Cianjur

Rencana Pembangunan Jangka Menengah Daerah Provinsi DKI Jakarta 2017-2022

Rencana Strategis Dinas Perhubungan Provinsi DKI Jakarta 2017-2022

Undang-Undang Republik Indonesia Nomor 22 Tahun 2009 tentang Lalu Lintas dan Angkutan Jalan

Undang-Undang Republik Indonesia Nomor 38 Tahun 2004 tentang Jalan