

DAFTAR PUSTAKA

- AASHTO. (2007). *Maintenance Manual for Roadways and Bridges*. American Association of State Highway and Transportation Officials.
- Acurio, J. R. M. (2014). *Incorporating risk and uncertainty into pavement network maintenance and rehabilitation budget allocation decisions*. Texas A&M University.
- Al-Kathairi, A. (2014). *Performance Based Road Asset Management System, with a case study: Abu Dhabi* [Doctoral dissertation]. Carleton University.
- Amir, M. H. M., Naharudin, N. (2021). Geospatial Analysis on the Impact of Road Defects on Motorcycle Accidents. *IOP Conference Series: Earth and Environmental Science*, 767(1), 012002. <https://doi.org/10.1088/1755-1315/767/1/012002>
- Anastasopoulos, P. Ch., McCullouch, B. G., Gkritza, K., Mannering, F. L., Sinha, K. C. (2010). Cost Savings Analysis of Performance-Based Contracts for Highway Maintenance Operations. *Journal of Infrastructure Systems*, 16(4), 251–263. [https://doi.org/10.1061/\(ASCE\)IS.1943-555X.0000012](https://doi.org/10.1061/(ASCE)IS.1943-555X.0000012)
- Asian Development Bank. (2018). *Guide to Performance-Based Road Maintenance Contracts*.
- Ateş, K., Atasoy, G., Öztürk, H. I. (2020). Examination of suitability of performance based contracts for the Turkish road maintenance sector. *Journal of Construction Engineering, Management and Innovation*, 3(3), 179–192. <https://doi.org/10.31462/jcemi.2020.03179192>
- Babić, D., Fiolčić, M., Babić, D., Gates, T. (2020). Road Markings and Their Impact on Driver Behaviour and Road Safety: A Systematic Review of Current Findings. *Journal of Advanced Transportation*, 2020, 1–19. <https://doi.org/10.1155/2020/7843743>
- Bag, S. 2015. A Short Review on Structural Equation Modeling: Applications and Future Research Directions. *Journal of Supply Chain Management Systems*. Vol 4(3), Hal: 64-69.
- Bappenas. (2020). *Rancangan awal rencana pembangunan jangka menengah nasional (RPJMN) 2020-2024*.
- Barton, J., Burns, J. (2012). *Road Maintenance Review International Comparison*.
- BBPJJN Jateng-DIY. (2020). <https://binamarga.pu.go.id/balai-jateng-diy/index.php/>.
- Bianchi, C. (2013). *Implementation of road operation maintenance aspects in the planning and design phase*. Chalmers University of Technology.
- Bora, A., Ahmed, S. (2019). Mathematical Modeling: An Important Tool for Mathematics Teaching. *International Journal of Research and Analytical Reviews*, 6(2), 252–256.
- Budilukito, A., Mulyono, A. T. (2016). Kesiapan Kontraktor Terhadap Kebijakan Preservasi Jalan Nasional Di Sumatera Selatan. *Jurnal HPJI (Himpunan Pengembangan Jalan Indonesia)*, 2(2), 133–142.

- Cabana, G., Liautaud, G., Faiz, A. (1999). Areawide Performance-Based Rehabilitation and Maintenance Contracts for Low-Volume Roads. *Transportation Research Record: Journal of the Transportation Research Board*, 1652(1), 128–137. <https://doi.org/10.3141/1652-51>
- Cadar, R. D., Boitor, M. R., Dumitrescu, M. (2017). Investigating the Role of Traffic Volumes on the Occurrence of the Accidents on the National Roads: a Case Study in Romania. *Geographia Technica*, 12(2), 20–29. https://doi.org/10.21163/GT_2017.122.03
- Civelek, M.E. 2018. *Essentials of Structural Equation Modeling*. University of Nebraska–Lincoln Libraries: Zea Books.
- Dardak, H., Zuna, H. T., Rifai, A. I. (2020). A conceptual pavement optimization considering costs and M&R interventions (Learn from Long Segment Maintenance Contract). *Jour of Adv Research in Dynamical & Control Systems*, 12(2).
- de la Garza, J. M., Pinero, J. C., Ozbek, M. E. (2009). A Framework for Monitoring Performance-Based Road Maintenance Contracts. *Proceedings of the Associated Schools of Construction 45th Annual International Conference*, 433–441.
- Dewanto, Soehari, T. D., Amin, M. (2019). Key Factors Affecting Time Planning on the Long Segment Road Project Implementation. *International Journal of Engineering and Advanced Technology*, 9(1), 4203–4207. <https://doi.org/10.35940/ijeat.A1617.109119>
- Ditjen Bina Marga. (2015a). *Surat Edaran Nomor 08/SE/Db/2015 tentang Standar Dokumen Pengadaan Pekerjaan Preservasi Jalan untuk Pemaketan secara Long Segment*.
- Ditjen Bina Marga. (2015b). *Surat Edaran Nomor 09/SE/Db/2015 tentang Pelaksanaan Proses Pengadaan dan Pekerjaan Preservasi Jalan secara Long Segment*.
- Ditjen Bina Marga. (2016a). *Spesifikasi Khusus Divisi 10.a Pemeliharaan Kinerja Jalan (SKh-1.10.a)*.
- Ditjen Bina Marga. (2016b). *Spesifikasi Khusus Divisi 10.b Pemeliharaan Kinerja Jembatan (SKh-1.10.b)*.
- Ditjen Bina Marga. (2016c). *Surat Edaran Nomor 07/SE/Db/2016 tentang Perubahan Standar Dokumen Pengadaan Pekerjaan Preservasi Jalan dengan Skema Long Segment untuk Kontrak Tahun Tunggal*.
- Ditjen Bina Marga. (2017). *Surat Edaran Nomor 06/SE/Db/2017 tentang Perubahan Standar Dokumen Pengadaan Pekerjaan Preservasi Jalan dengan Skema Long Segment*.
- Ditjen Bina Marga. (2018a). *Surat Edaran Nomor 02/SE/Db/2018 tentang Spesifikasi Umum 2018 untuk Pekerjaan Konstruksi Jalan dan Jembatan*.
- Ditjen Bina Marga. (2018b). *Surat Edaran Nomor 03/SE/Db/2018 tentang Penyampaian Standar Dokumen Pemilihan Pengadaan Pekerjaan Konstruksi di Lingkungan Direktorat Jenderal Bina Marga*.
- Ditjen Bina Marga. (2019). *Surat Edaran Nomor 01/SE/Db/2019 tentang Standar Dokumen Pemilihan Pengadaan Jasa Konstruksi Tahun Anggaran 2019 di Lingkungan Direktorat Jenderal Bina Marga*.

- Ditjen Bina Marga. (2020a). *Spesifikasi Umum 2018 untuk Pekerjaan Konstruksi Jalan dan Jembatan (Revisi 2)*.
- Ditjen Bina Marga. (2020b). *Rencana Strategis Direktorat Jenderal Bina Marga Tahun 2020–2024*.
- Ditjen Bina Marga. (2021). *Surat Edaran 20/SE/Db/2021 tentang Pedoman Desain Geometrik Jalan*.
- Ekbäck, P., Christensen, F. K. (2020). Road Management in Denmark and Sweden. *Nordic Journal of Surveying and Real Estate Research*, 15(1), 38–55. <https://doi.org/10.30672/njsr.94928>
- Esmaceli, A., Khalili, M., Pakgohar, A. (2012). Determining the road defects impact on accident severity; based on vehicle situation after accident, an approach of logistic regression. *2012 International Conference on Statistics in Science, Business and Engineering (ICSSBE)*, 1–4. <https://doi.org/10.1109/ICSSBE.2012.6396551>
- European Bank. (2016). *Policy Challenges in the Implementation of Performance-based Contracting for Road Maintenance* (Policy Paper on Infrastructure European Bank for Reconstruction and Development).
- FHWA. (2012). *Polymer Modified Asphalt Emulsions Composition, Uses, and Specifications for Surface Treatments*. Federal Highway Administration.
- France-Mensah, J., Kothari, C., O'Brien, W. J., Jiao, J. (2019). Integrating social equity in highway maintenance and rehabilitation programming: A quantitative approach. *Sustainable Cities and Society*, 48, 101526. <https://doi.org/10.1016/j.scs.2019.101526>
- Gajurel, A. (2014). *Performance-based contracts for road projects*. Springer.
- Galehouse, L., Moulthrop, J. S., Hicks, R. G. (2003). Principles of pavement preservation: Definitions, benefits, issues, and barriers. *TR News*, 228.
- Galih, E. P., Donny, M., Kamalud, T. M. (2019). Factors Affecting the Delay of the Road Maintenance Project in the Application of the Long Segment Method in Central Sulawesi. *International Journal of Innovative Research in Advanced Engineering (IJIRAE)*, 12(6), 652–660.
- Geiger, D. R. (2005). *Pavement Preservation Definitions*.
- Ghozali, I. (2014). *Konsep dan Aplikasi Dengan Program AMOS 22*. Badan Penerbit Universitas Diponegoro.
- Glavić, D., Mladenović, M., Stevanovic, A., Tubić, V., Milenković, M., Vidas, M. (2016). Contribution to accident prediction models development for rural two-lane roads in Serbia. *Promet-Traffic and Transportation*, 28(4), 415–424.
- Gupta, D., Vedantam, A., Azadivar, J. (2011). *Optimal Contract Mechanism Design for PerformanceBased Contracts*.
- Hair, J. F., Black, W. C., Babin, B. J., Anderson, R. E. (2010). *Multivariate Data Analysis* (7 ed.). Harlow-England.
- Hair, J.F.J, Hult, G.T.M., Ringle, C.M., dan Sarstedt, M. 2022. *A Primer on Partial Least Squares Structural Equation Modeling (PLS-SEM)*. Los Angeles: SAGE Publications, Inc.

- Han, C., Ma, T., Xu, G., Chen, S., Huang, R. (2020). Intelligent decision model of road maintenance based on improved weight random forest algorithm. *International Journal of Pavement Engineering*, 23(4), 985–997. <https://doi.org/10.1080/10298436.2020.1784418>
- Ibraheem, A. T., Gani, S. M. (2011). Evaluation of Common Maintenance Methods for Flexible Pavements. *Am. J. Engg. & Applied Sci*, 4(3), 413–424.
- JICA. (2016). *Performance Based Road Maintenance Contract (PBC Guideline)*. Franciscan Kolbe Press.
- Karlaftis, M., Kepaptsoglou, K. (2012). *Performance measurement in the road sector: a cross-country review of experience* (International Transport Forum Discussion Paper).
- Kayhanian, M., Singh, A., Suverkropp, C., Borroum, S. (2003). Impact of annual average daily traffic on highway runoff pollutant concentrations. *Journal of environmental engineering*, 129(11), 975–990.
- Keith, T. Z. 2015. *Multiple Regression and Beyond: An Introduction to Multiple Regression and Structural Equation Modeling, Edisi ke-2*. New York Taylor & Francis Group.
- Landis, R. S., Beal, D. J., Tesluk, P. E. (2000). A Comparison of Approaches to Forming Composite Measures in Structural Equation Models. *Organizational Research Methods*, 3(2), 186–207. <https://doi.org/10.1177/109442810032003>
- Lee, J., Nam, B., Abdel-Aty, M. (2015). Effects of Pavement Surface Conditions on Traffic Crash Severity. *Journal of Transportation Engineering*, 141(10). [https://doi.org/10.1061/\(ASCE\)TE.1943-5436.0000785](https://doi.org/10.1061/(ASCE)TE.1943-5436.0000785)
- Li, Y., Liu, C., Ding, L. (2013). Impact of pavement conditions on crash severity. *Accident Analysis & Prevention*, 59, 399–406. <https://doi.org/10.1016/j.aap.2013.06.028>
- Matsunaga, M. (2008). Item Parceling in Structural Equation Modeling: A Primer. *Communication Methods and Measures*, 2(4), 260–293. <https://doi.org/10.1080/19312450802458935>
- Mendes, R. A. H. (2017). Outsourcing municipal systems: proposing a Performance Based Contract for road maintenance. *Tecnico Lisboa*.
- Moss, T. P., Lawson, V., White, P. (2015). Identification of the underlying factor structure of the Derriford Appearance Scale 24. *PeerJ*, 3, e1070. <https://doi.org/10.7717/peerj.1070>
- Mulyono, A. T. (2015). *Penyusunan Indikator Kinerja Pelaksanaan Kegiatan Penanganan Preservasi Jalan Nasional di Lingkup Direktorat Preservasi Jalan Kementerian Pekerjaan Umum dan Perumahan Rakyat*.
- Mulyono, A. T. (2020). *Early Warning Masukan Penting Penyusunan RUU Revisi Undang-Undang Nomor 38 Tahun 2004 Tentang Jalan*. Dewan Perwakilan Rakyat (DPR) Republik Indonesia.
- Mutai, H. K., Aila, F. (2018). *Effect of Performance Based Contracting on Performance of Road Agencies in Kenya*. Maseno University.

- Nawangsari, A. Y. (2011). *Structural Equation Modeling pada Perhitungan Indeks Kepuasan Pelanggan dengan Menggunakan Software AMOS (Studi Kasus: Perhitungan Indeks Kepuasan Mahasiswa FMIPA UNY terhadap Operator IM3) [Skripsi]*. Universitas Negeri Yogyakarta.
- NCHRP. (2009). *Performance Based Contracting For Maintenance* (A synthesis of Highway Practice-Transportation Research Board of the National Academies).
- Nerhagen, L., Forsstedt, S. (2016). The possible role of regulatory impact assessment in Swedish transport planning. *International Transport Forum*.
- Nofvandro, R. F. (2015). *Analisis Risiko Faktor-faktor Penyebab Keterlambatan Proyek Terhadap Mutu Pelaksanaan Jalan Nasional [Tesis]*. Universitas Gadjah Mada.
- NZTA. (2023). *Traffic management levels* (<https://www.nzta.govt.nz/roads-and-rail/code-of-practice-for-temporary-traffic-management/resources/traffic-management-levels/>).
- Opus International Consultants Limited in association with MWH NZ Limited. (2006). *Introducing Performance Based Maintenance Contracts to Indonesia Framework Document*.
- Ozbek, M. E., de la Garza, J. M. (2011). Comprehensive Evaluation of Virginia Department of Transportation's Experience with its First Performance-Based Road-Maintenance Contract. *Journal of Transportation Engineering*, 137(12), 845–854. [https://doi.org/10.1061/\(ASCE\)TE.1943-5436.0000294](https://doi.org/10.1061/(ASCE)TE.1943-5436.0000294)
- Panthi, K. (2009). *A methodological framework for modeling pavement maintenance costs for projects with performance-based contracts [Dissertation]*. Florida International University.
- Parsa, A. (2020). Pavement Condition and Traffic Safety: A Comprehensive Review of the Literature. *Illinois Asphalt Pavement Association*.
- Pataras, M., Kadarsa, E., Susanti, B., Adhitya, B. B., Juliastini, D. (2019). Road Asset Management System Dalam Penanganan Long Segment Jalan Nasional (Studi Kasus: Batas Kota Sekayu–Mangun Jaya). *Applicable Innovation of Engineering and Science Research (AVoER)*, 806–815.
- Rahmadaniaty, N., Masniari, R., Arnita. (2013). Penerapan Metode Structural Equation Modeling (SEM) dalam Menentukan Pengaruh Kepuasan, Kepercayaan Dan Mutu terhadap Kesetiaan Pasien Rawat Jalan dalam Memanfaatkan Pelayanan Rumah Sakit di RSUD Dr. Pirngadi Medan Tahun 2012. *Fakultas Kesehatan Masyarakat, Universitas Sumatera Utara*.
- Regassa, B. (2015). *Study of Performance Based Road Maintenance Contracting System for Ethiopian Federal Roads [Doctoral dissertation]*. Addis Ababa University.
- Republik Indonesia. (2009). *Undang-Undang Republik Indonesia Nomor 22 Tahun 2009 tentang Lalu Lintas dan Angkutan Jalan*.
- Republik Indonesia. (2022). *Undang-Undang Republik Indonesia Nomor 2 Tahun 2022 Tentang Perubahan Kedua Atas Undang-Undang Nomor 38 Tahun 2004 Tentang Jalan*.

- Retallack, A. E., Ostendorf, B. (2020). Relationship Between Traffic Volume and Accident Frequency at Intersections. *International Journal of Environmental Research and Public Health*, 17(4), 1393. <https://doi.org/10.3390/ijerph17041393>
- Ridwan, N., Putranto, L. S. (2020). INDIKATOR KINERJA JALAN LONG SEGMENT DI BANTEN DENGAN ANALISIS ANALYTICAL HIERARCHY PROCESS. *Jurnal Muara Sains, Teknologi, Kedokteran dan Ilmu Kesehatan*, 4(1), 131. <https://doi.org/10.24912/jmstkik.v4i1.5877>
- Rifai, A. I., Thalib, H., Prayogo, D., Isradi, M. (2022). Customer Satisfaction and Road Performance in Long Segment Maintenance Contract: Application of an Urban Road Network. *UIJRT United International Journal of Research & Technology*, 3(9), 10–19.
- Rožman, M., Štrukelj, T. (2020). Organisational climate components and their impact on work engagement of employees in medium-sized organisations. *Economic Research-Ekonomska Istraživanja*. 34:1. 775-806. DOI: 10.1080/1331677X.2020.1804967.
- Salem, M.A. (2019). Structural equation modelling of the impact of environmental capabilities on competitiveness. *International Journal of Productivity and Performance Management*. Vol. 68 Issue: 1, pp.127-147. <https://doi.org/10.1108/IJPPM-11-2016-0259>.
- Santoso, S. (2015). *AMOS 22 untuk structural equation modelling*. Elex Media Komputindo.
- Segal, G. F., Moore, A. T., McCarthy, S. (2003). *Contracting for Road and Highway Maintenance*.
- Selviaridis, K., Wynstra, F. (2015). Performance-based contracting: a literature review and future research directions. *International Journal of Production Research*, 53(12), 3505–3540. <https://doi.org/10.1080/00207543.2014.978031>
- Silva, M. M., Liautaud, G. (2011). *Performance-Based Road Rehabilitation and Maintenance Contracts in Argentina: A Review of Fifteen Years of Experience (1996-2010)*.
- Simões, D., Almeida-Costa, A., Benta, A. (2017). Preventive maintenance of road pavement with microsurfacing—an economic and sustainable strategy. *International Journal of Sustainable Transportation*, 11(9), 670–680. <https://doi.org/10.1080/15568318.2017.1302023>
- Sinaga, H. P. (2011). *Manajemen Preservasi Jalan Untuk Pengelolaan Jaringan Jalan Wilayah* (1 ed.). Pusat Penelitian dan Pengembangan Jalan dan Jembatan.
- Sita, T. (2018). Road Maintenance Management Using Pavement Condition Index (PCI) Survey. *Proceeding ICTA 2017 UBHARA Surabaya*, 119–130.
- Sita, T., Mulyono, A. T., Utomo, S. H. T. (2022). Pemantauan Penerapan Sanksi Finansial Atas Keterlambatan Pemenuhan Indikator Kinerja Jalan Menggunakan Aplikasi Berbasis Android Sininja. *Jurnal Transportasi*, 22(3), 217–226.
- Sita, T., Mulyono, A. T., Utomo, S. H. T. (2023). Analyzing the effect of road performance indicators on penalties for late fulfillment in road service levels. *Journal of Applied Engineering Science*, 1–12. <https://doi.org/10.5937/jaes0-39785>

- Stankevich, N., Navaid, Q., Queiroz, C. (2005). *Performance-based Contracting for Preservation and Improvement of Road Assets*. World Bank Transport Note No. TN-27.
- Sugiyono, D. (1999). *Metode Penelitian Bisnis*. CV. Alfabeta.
- Sultana, M., Rahman, A., Chowdhury, S. (2012). Performance Based Maintenance of Road Infrastructure by Contracting—A Challenge for Developing Countries. *Journal of Service Science and Management*, 05(02), 118–123. <https://doi.org/10.4236/jssm.2012.52015>
- Sumarni, M., Wahyuni, S. (2006). *Metodologi Penelitian Bisnis*. Penerbit Andi.
- Suryani, F., Dinariana, D., Febrian, A. (2021). Risk Management of Road Segment Long Preservation on Time Performance. *Journal of Architecture and Civil Engineering*, 6(9), 18–34.
- Sutradhar, R., Pal, M. (2020). Assessment of Pavement Shoulder Condition in Rural Roads. *International Journal on Emerging Technologies*, 11(1), 91–100.
- UGM. (2023). *Pedoman Penulisan Skripsi, Tesis, dan Disertasi*. Departemen Teknik Sipil dan Lingkungan, Fakultas Teknik, Universitas Gadjah Mada.
- Vaitkus, A., Čygas, D., Motiejūnas, A., Pakalnis, A., Miškinis, D. (2016). Improvement of Road Pavement Maintenance Models and Technologies. *The Baltic Journal of Road and Bridge Engineering*, 11(3), 242–249. <https://doi.org/10.3846/bjrbe.2016.28>
- Verma, D., Singh, V. (2015). Road Maintenance Effect in Reducing Road Accident. *International Journal for Scientific Research & Development*, 3(1), 303–307.
- Visintine, B. A., Hicks, R. G., Cheng, D., Elkins, G. E. (2015). Factors affecting the performance of pavement preservation treatments. *9th International Conference on Managing Pavement Assets*.
- Wang, Z. (2013). *Analysis of effectiveness of pavement preservation using long-term pavement performance data*. The State University of New Jersey.
- Wasilah, S., dan Fahmyddin, T. 2018. The advancement of the built environment research through employment of structural equation modeling (SEM). *IOP Conf. Series: Earth and Environmental Science* 126 (2018) 012001.
- Widhiarso, W. (2009). *Praktek Model Persamaan Struktural (SEM) Melalui Program Amos*. Fakultas Psikologi, Universitas Gadjah Mada.
- Winanri, R. P., Susanti, B., Juliantina, I. (2019). Comparison Analysis Between Traditional and Long Segment Contracts on National Road Preservation Activities in Indonesia. *Engineering, Technology & Applied Science Research*, 9(3), 4230–4234.
- Wirahadikusumah, R., Susanti, B., Coffey, V., Adighibe, C. (2015). Performance-based Contracting for Roads – Experiences of Australia and Indonesia. *Procedia Engineering*, 125, 5–11. <https://doi.org/10.1016/j.proeng.2015.11.002>
- World Bank. (2020). *Request for Bids Output and Performance-Based Road Contracts (With or Without Prequalification)*. The World Bank.



- Yamin, R. A., Sailendra, A. B. (2008). Mari Menoleh Sejenak (Lagi) pada Chip Seal. *Konferensi Regional Teknik Jalan Ke 10*.
- Yamin, S., Kurniawan, H. (2009). *SPSS complete: Teknik analisis statistik terlengkap dengan software SPSS*. Salemba Infotek.
- Zhou, J., Guo, Y., Dong, S., Zhao, L., dan Yang, R. 2016. *Structural Equation Modeling for Pedestrians' Perception in Integrated Transport Hubs*. *Procedia Engineering*, Vol.137, Hal: 817 – 826.
- Zietlow, G. (2002). *Using micro-enterprises to create local contracting capacity—The Latin American experience in road maintenance* (Senior Road Executives Programme, accessed at <http://www.zietlow.com/docs/ME.pdf>).
- Zietlow, G. (2005). *Cutting costs and improving quality through performance-based road management and maintenance contracts-the Latin American and OECD experiences* (Senior Road Executives Programme).
- Zulu, S. (2007). Impact of project management on project performance: a structural equation modelling approach. *23rd Annual ARCOM Conference*.
- Zumrawi, M. M. E. (2016). Investigating Causes of Pavement Deterioration In Khartoum State. *International Journal of Civil Engineering and Technology*, 7(2), 203–214.
- Zumrawi, M. M., Margani, K. M. (2017). Improving maintenance practice for road network in Sudan. *MOJ Civil Engineering*, 2(6), 202–207.