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DAFTAR PUSTAKA

Archetti, C., Savelsbergh, M. W. P., & Grazia Speranza, M. (2008). To split or not to split: That is the question. *Transportation Research Part E: Logistics and Transportation Review*, *44*(1), 114–123. https://doi.org/10.1016/j.tre.2006.04.003

Arvidsson, N. (2013). The milk run revisited: A load factor paradox with economic and environmental implications for urban freight transport. *Transportation Research Part A: Policy and Practice*, *51*, 56–62. https://doi.org/10.1016/j.tra.2013.04.001

Boldrini, C., & Bruno, R. (2017). *2017 IEEE 20th International Conference on Intelligent Transportation Systems*. IEEE. https://doi.org/10.1109/ITSC.2017.8317960

Castaneda, J., Ghorbani, E., Ammouriova, M., Panadero, J., & Juan, A. A. (2022). Optimizing Transport Logistics under Uncertainty with Simheuristics: Concepts, Review and Trends. *Logistics*, *6*(3). https://doi.org/10.3390/logistics6030042

Daudi, M., Hauge, J. B., & Thoben, K. D. (2016). Behavioral factors influencing partner trust in logistics collaboration: a review. *Logistics Research*, *9*(1). https://doi.org/10.1007/s12159-016-0146-7

de Bittencourt, G. C., Seimetz Chagas, R. D., Silva, V. A., Peres Vianna, I. G., Longhi, R. P., Ribas, P. C., & Ferreira Filho, V. J. M. (2021). A solution framework for the integrated problem of cargo assignment, fleet sizing, and delivery planning in offshore logistics. *Computers and Industrial Engineering*, *161*. https://doi.org/10.1016/j.cie.2021.107653

Debbouz, M., Aoulmi, Z., Fehdi, C., & Attia, M. (2024). Sustainable Transportation Planning for Djebel Onk's Open-Pit Phosphate Mine in Algeria: Using Queuing Theory and Cost-Emission Analysis. *International Journal of Sustainable Development and Planning*, *19*(5), 1663–1669. https://doi.org/10.18280/ijsdp.190504

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Derpich, I., Duran, C., Carrasco, R., Moreno, F., Fernandez-Campusano, C., & Espinosa-Leal, L. (2024). Pursuing Optimization Using Multimodal Transportation System: A Strategic Approach to Minimizing Costs and CO2 Emissions. *Journal of Marine Science and Engineering*, *12*(6). https://doi.org/10.3390/jmse12060976

Eppen, G. D. (1979). Note—Effects of Centralization on Expected Costs in a Multi-Location Newsboy Problem. *Management Science*, *25*(5), 498–501. https://doi.org/10.1287/mnsc.25.5.498

Favilla, J. R., Claessens, D. A., Mello, U., & Flach, B. (2012). SPE 150396 Achieving Excellence in Offshore Logistics. In *the SPE Intelligent Energy International*.

Fonseca, D. J., Navaresse, D. O., & Moynihan, G. P. (2003). Simulation metamodeling through artificial neural networks. *Engineering Applications of Artificial Intelligence*, *16*(3), 177–183. https://doi.org/10.1016/S0952-1976(03)00043-5

Franceschetti, A., Honhon, D., Laporte, G., Woensel, T. Van, & Fransoo, J. C. (2017). Strategic fleet planning for city logistics. *Transportation Research Part B: Methodological*, *95*, 19–40. https://doi.org/10.1016/j.trb.2016.10.005

Gansterer, M., Hartl, R. F., & Wieser, S. (2021). Assignment constraints in shared transportation services. *Annals of Operations Research*, *305*(1–2), 513–539. https://doi.org/10.1007/s10479-020-03522-x

Gomez, E. S., Osorio, H. F., Obi, I., & Musa, I. (2020). Floating Mud Plant HUB: A Game-Changer in Offshore Drilling Logistics. *International Petroleum Technology Conference*.

Gupta, M. C., & Boyd, L. H. (2008). Theory of constraints: A theory for operations management. *International Journal of Operations and Production Management*, *28*(10), 991–1012. https://doi.org/10.1108/01443570810903122

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Hazrathosseini, A., & Moradi Afrapoli, A. (2024). Transition to intelligent fleet management systems in open pit mines: A critical review on application of reinforcement-learning-based systems. *Mining Technology: Transactions of the Institutions of Mining and Metallurgy*, *133*(1), 50–73. https://doi.org/10.1177/25726668231222998

Huo, D., Sari, Y. A., Kealey, R., & Zhang, Q. (2023). Reinforcement Learning-Based Fleet Dispatching for Greenhouse Gas Emission Reduction in Open-Pit Mining Operations. *Resources, Conservation and Recycling*, *188*. https://doi.org/10.1016/j.resconrec.2022.106664

Kbah, Z., Erdil, N. O., & Aqlan, F. (2016). Analysis of Oil and Gas Supply Chain Using Continuous-Time Discrete-Event Simulatio. *2016 Industrial and Systems Engineering Research Conference, ISERC 2016*, 213–218.

Kim, J., & Hong, S. (2022). A dynamic storage location assignment model for a progressive bypass zone picking system with an S/R crane. *Journal of the Operational Research Society*, *73*(5), 1155–1166. https://doi.org/10.1080/01605682.2021.1892462

Kleijnen, J. P. C. (2017). Regression and Kriging metamodels with their experimental designs in simulation: A review. In *European Journal of Operational Research* (Vol. 256, Number 1, pp. 1–16). Elsevier B.V. https://doi.org/10.1016/j.ejor.2016.06.041

Kristjanpoller, F., Viveros, P., Zio, E., Pascual, R., & Aranda, O. (2020). Equivalent availability index for the performance measurement of haul truck fleets. *Eksploatacja i Niezawodnosc*, *22*(4), 583–591. https://doi.org/10.17531/ein.2020.4.1

Li, G., Yang, S., Xu, Z., Wang, J., Ren, Z., & Li, G. (2020). Resource allocation methodology based on object-oriented discrete event simulation: A production logistics system case study. In *CIRP Journal of Manufacturing Science and Technology* (Vol. 31, pp. 394–405). Elsevier Ltd. https://doi.org/10.1016/j.cirpj.2020.07.001

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López, E. C., Marmier, F., & Fontanili, F. (2019). BUS FLEET SIZE DIMENSIONING IN AN INTERNATIONAL AIRPORT USING DISCRETE EVENT SIMULATION. *Proceedings of the 2019 Winter Simulation Conference*, 464–475.

Lyu, Z., Pons, D., Chen, J., & Zhang, Y. (2022). Developing a Stochastic Two-Tier Architecture for Modelling Last-Mile Delivery and Implementing in Discrete-Event Simulation. *Systems*, *10*(6). https://doi.org/10.3390/systems10060214

Moradi Afrapoli, A., & Askari-Nasab, H. (2019). Mining fleet management systems: a review of models and algorithms. *International Journal of Mining, Reclamation and Environment*, *33*(1), 42–60. https://doi.org/10.1080/17480930.2017.1336607

Moradi Afrapoli, A., Tabesh, M., & Askari-Nasab, H. (2019). A stochastic hybrid simulation-optimization approach towards haul fleet sizing in surface mines. *Mining Technology: Transactions of the Institute of Mining and Metallurgy*, *128*(1), 9–20. https://doi.org/10.1080/25726668.2018.1473314

Mufazzal, S., & Muzakkir, S. M. (2018). A new multi-criterion decision making (MCDM) method based on proximity indexed value for minimizing rank reversals. *Computers and Industrial Engineering*, *119*, 427–438. https://doi.org/10.1016/j.cie.2018.03.045

Njuguna, J., Siddique, S., Bakah Kwroffie, L., Piromrat, S., Addae-Afoakwa, K., Ekeh-Adegbotolu, U., Oluyemi, G., Yates, K., Kumar Mishra, A., & Moller, L. (2022). The fate of waste drilling fluids from oil & gas industry activities in the exploration and production operations. In *Waste Management* (Vol. 139, pp. 362–380). Elsevier Ltd. https://doi.org/10.1016/j.wasman.2021.12.025

Ozdemir, B., & Kumral, M. (2019a). Simulation-based optimization of truck-shovel material handling systems in multi-pit surface mines. *Simulation*

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Modelling Practice and Theory, *95*, 36–48. https://doi.org/10.1016/j.simpat.2019.04.006

Ozdemir, B., & Kumral, M. (2019b). Simulation-based optimization of truck-shovel material handling systems in multi-pit surface mines. *Simulation Modelling Practice and Theory*, *95*, 36–48. https://doi.org/10.1016/j.simpat.2019.04.006

Pasha, A., & Afrapoli, A. M. (2026). GHG-considerate operational excellence in surface mines: an integrated stochastic discrete-continuous simulation-based optimization framework. *International Journal of Modelling and Simulation*, 1–19.

Pereira, L. B., Sad, C. M. S., Castro, E. V. R., Filgueiras, P. R., & Lacerda, V. (2022). Environmental impacts related to drilling fluid waste and treatment methods: A critical review. In *Fuel* (Vol. 310). Elsevier Ltd. https://doi.org/10.1016/j.fuel.2021.122301

Pereira, L. B., Sad, C. M. S., da Silva, M., Corona, R. R. B., dos Santos, F. D., Gonçalves, G. R., Castro, E. V. R., Filgueiras, P. R., & Lacerda, V. (2019). Oil recovery from water-based drilling fluid waste. *Fuel*, *237*, 335–343. https://doi.org/10.1016/j.fuel.2018.10.007

Rocha, E. M., & Lopes, M. J. (2022). Bottleneck prediction and data-driven discrete-event simulation for a balanced manufacturing line. *Procedia Computer Science*, *200*, 1145–1154. https://doi.org/10.1016/j.procs.2022.01.314

Sanchez, S. M., & Sanchez, P. J. (2005). *Very Large Fractional Factorial and Central Composite Designs*.

Simatupang, T. M., Wright, A. C., & Sridharan, R. (2004). Applying the theory of constraints to supply chain collaboration. In *Supply Chain Management* (Vol. 9, Number 1, pp. 57–70). https://doi.org/10.1108/13598540410517584

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Staff, M. E., & Mustafee, N. (2025). Discrete-event simulation for effective perishable inventory management: a review. *Simulation*, *101*(9), 981–1000. https://doi.org/10.1177/00375497251334387

Sudjono, S. S., Hakam, D. F., & Wasesa, M. (2025). Advancing towards indonesia's net zero emission goals: An in-depth multi-criteria decision making (MCDM) analysis of ship-loader operations in maritime transportation using interval type-2 fuzzy AHP and TOPSIS methods. *Energy Reports*, *14*, 552–565. https://doi.org/10.1016/j.egyr.2025.06.014

Tako, A. A., & Robinson, S. (2012). The application of discrete event simulation and system dynamics in the logistics and supply chain context. *Decision Support Systems*, *52*(4), 802–815. https://doi.org/10.1016/j.dss.2011.11.015

Uyen, V. T. N., Ersoy, N., Trung, D. D., & Giang, N. T. P. (2024a). Applying MCDM to evaluate benchmark scores in the logistics sector for the period 2021–2023: Application to universities in Vietnam. *Journal of Infrastructure, Policy and Development*, *8*(11). https://doi.org/10.24294/jipd.v8i11.8942

Uyen, V. T. N., Ersoy, N., Trung, D. D., & Giang, N. T. P. (2024b). Applying MCDM to evaluate benchmark scores in the logistics sector for the period 2021–2023: Application to universities in Vietnam. *Journal of Infrastructure, Policy and Development*, *8*(11). https://doi.org/10.24294/jipd.v8i11.8942

Varnamkhasti, M. J., & Hassan, N. (2015). CLASSICAL AND URGECIES ASSIGNMENT METHODS IN P-MEDIAN PROBLEMS WITH FUZZY GENETIC ALGORITHM. *Pakistan Journal of Statistics*, *31*, 643–651.

Vasiliu, C. C., Pierce, D., & Bertrand, K. (2012). *Challenging Wastewater Treatment*.

Wang, W., Yang, K., Yang, L., Gao, Z., Dong, J., & Zhang, H. (2025). A decomposition scheme for Wasserstein distributionally robust emergency relief network design under demand uncertainty and social donations.

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Computers and Operations Research, *175*. https://doi.org/10.1016/j.cor.2024.106913

Watson, K. J., Blackstone, J. H., & Gardiner, S. C. (2007). The evolution of a management philosophy: The theory of constraints. *Journal of Operations Management*, *25*(2), 387–402. https://doi.org/10.1016/j.jom.2006.04.004