



DAFTAR PUSTAKA

- Abualigah, L., Hanandeh, E. S., Zitar, R. A., Thanh, C. Le, Khatir, S., & Gandomi, A. H. (2023). Revolutionizing sustainable supply chain management: A review of metaheuristics. *Engineering Applications of Artificial Intelligence*, 126(July), 106839. <https://doi.org/10.1016/j.engappai.2023.106839>
- Alba, E., & Dorronsoro, B. (2006). Computing nine new best-so-far solutions for Capacitated VRP with a cellular Genetic Algorithm. *Information Processing Letters*, 98(6), 225–230. <https://doi.org/10.1016/j.ipl.2006.02.006>
- Amous, M., Toumi, S., Jarboui, B., & Eddaly, M. (2017). A variable neighborhood search algorithm for the capacitated vehicle routing problem. *Electronic Notes in Discrete Mathematics*, 58, 231–238. <https://doi.org/10.1016/j.endm.2017.03.030>
- Andani, A. (2008). Analisis Prakiraan Produksi Dan Konsumsi Beras Indonesia. *Jurnal AGRISEP*, 7(2), 1–18. <https://doi.org/10.31186/jagrisep.7.2.1-18>
- Bala, B. K., Bhuiyan, M. G. K., Alam, M. M., Arshad, F. M., Sidique, S. F., & Alias, E. F. (2017). Modelling of supply chain of rice in Bangladesh. *International Journal of Systems Science: Operations and Logistics*, 4(2), 181–197. <https://doi.org/10.1080/23302674.2016.1179813>
- Belfiore, P., & Yoshida Yoshizaki, H. T. (2009). Scatter search for a real-life heterogeneous fleet vehicle routing problem with time windows and split deliveries in Brazil. *European Journal of Operational Research*, 199(3), 750–758. <https://doi.org/10.1016/j.ejor.2008.08.003>
- Cao, B., Zhang, W., Wang, X., Zhao, J., Gu, Y., & Zhang, Y. (2021). A memetic algorithm based on two_Arch2 for multi-depot heterogeneous-vehicle capacitated arc routing problem. *Swarm and Evolutionary Computation*, 63(January). <https://doi.org/10.1016/j.swevo.2021.100864>
- Chen, H., Chen, Z., Lin, F., & Zhuang, P. (2021). Effective management for blockchain-based agri-food supply chains using deep reinforcement learning. *IEEE Access*, 9, 36008–36018. <https://doi.org/10.1109/ACCESS.2021.3062410>
- Cheraghaliour, A., Paydar, M. M., & Hajiaghaei-Keshteli, M. (2019b). Designing and solving a bi-level model for rice supply chain using the evolutionary algorithms. *Computers and Electronics in Agriculture*, 162(May), 651–668. <https://doi.org/10.1016/j.compag.2019.04.041>
- Clarke, H. R. (1989). Theory and Methodology Combinatorial aspects of cropping pattern selection in agriculture *. In *European Journal of Operational Research* (Vol. 40).



Damardjati, D. S. (1995). Karakterisasi sifat dan standardisasi mutu beras sebagai landasan pengembangan agri-bisnis dan agroindustri padi di Indonesia. *Orasi Pengukuhan Ahli Peneliti Utama. Badan Litbang Pertanian. Departemen Pertanian.* 52p.

Deliveree. 2023. *Deliveree*. January 10. Accessed April 23, 2023.
<https://www.deliveree.com/id/daftar-harga-sewa-truk-fuso-tronton-engkel/>.

Dönmez, S., Koç, Ç., & Altıparmak, F. (2022). The mixed fleet vehicle routing problem with partial recharging by multiple chargers: Mathematical model and adaptive large neighborhood search. *Transportation Research Part E: Logistics and Transportation Review*, 167(October).
<https://doi.org/10.1016/j.tre.2022.102917>

Eluubek kzyz, I., Song, H., Vajdi, A., Wang, Y., & Zhou, J. (2021). Blockchain for consortium: A practical paradigm in agricultural supply chain system. *Expert Systems with Applications*, 184.
<https://doi.org/10.1016/j.eswa.2021.115425>

Friedrich, C., & Elbert, R. (2022). Adaptive large neighborhood search for vehicle routing problems with transshipment facilities arising in city logistics. *Computers and Operations Research*, 137(June 2021), 105491.
<https://doi.org/10.1016/j.cor.2021.105491>

GRISP (Global Rice Science Partnership), 2013. Rice almanac. In: International Rice Research Institute, fourth ed., p. 283 Los Banos (Philippines).

Guritno, A. D., Kristanti, N. E., & Tanuputri, M. R. (2021). Collaborative Strategy for the Supply Chain of Rice: A Case Study on Demak and Sukoharjo Regency, Central Java, Indonesia. *AgriTECH*, 41(1), 1.
<https://doi.org/10.22146/agritech.48929>

Hossain, M., & Jahan, R. (2019). Rice chain flow modelling for optimised supply and distribution network: the case of specialised rice mill zones in Bangladesh. In *Int. J. Logistics Systems and Management* (Vol. 32, Issue 2).

Jakarta Globe. 2021. *Jakarta Globe : Business*. 10 01. Accessed 11 23, 2022.
<https://jakartaglobe.id/business/indonesia-is-set-to-introduce-21-per-ton-of-co2e-carbon-tax>.

Jifroudi, S. A. S., Teimoury, E., & Barzinpour, F. (2020). Designing and planning a rice supply chain: A case study for Iran farmlands. *Decision Science Letters*, 9(2), 163–180. <https://doi.org/10.5267/j.dsl.2020.1.001>

Kaabachi, I., Yahyaoui, H., Krichen, S., & Dekdouk, A. (2019). Measuring and evaluating hybrid metaheuristics for solving the multi-compartment vehicle routing problem. *Measurement: Journal of the International Measurement Confederation*, 141, 407–419.
<https://doi.org/10.1016/j.measurement.2019.04.019>



Khandelwal, C., Singhal, M., Gaurav, G., Dangayach, G. S., & Meena, M. L.

(2021). Agriculture Supply Chain Management: A Review (2010–2020).

Materials Today: Proceedings, 47, 3144–3153.

<https://doi.org/10.1016/j.matpr.2021.06.193>

Kristianto, Y., & Zhu, L. (2017b). Techno-economic optimization of ethanol

synthesis from rice-straw supply chains. *Energy*, 141, 2164–2176.

<https://doi.org/10.1016/j.energy.2017.09.077>

Kumari, M., De, P. K., Chaudhuri, K., & Narang, P. (2023). Utilizing a hybrid

metaheuristic algorithm to solve capacitated vehicle routing problem. Results in Control and Optimization, 13(August), 100292.

<https://doi.org/10.1016/j.rico.2023.100292>

Liu, R., Jiang, Z., Fung, R. Y. K., Chen, F., & Liu, X. (2010). Two-phase heuristic algorithms for full truckloads multi-depot capacitated vehicle routing

problem in carrier collaboration. *Computers and Operations Research*, 37(5), 950–959. <https://doi.org/10.1016/j.cor.2009.08.002>

Machmudi, M. A. (2021, Maret 25). Ekonomi. Retrieved from Media Indonesia:

<https://mediaindonesia.com/ekonomi/393247/indonesia-peringkat-ketiga-penghasil-beras-terbesar-di-dunia>

Markov, I., Varone, S., & Bierlaire, M. (2016). Integrating a heterogeneous fixed

fleet and a flexible assignment of destination depots in the waste collection VRP with intermediate facilities. *Transportation Research Part B: Methodological*, 84, 256–273. <https://doi.org/10.1016/j.trb.2015.12.004>

Nurmedina, Rania Rizqia. 2023. *The Lorry*. April 10. Accessed April 23, 2023.

<https://thelorry.com/id/blog/daftar-harga-sewa-truk-thelorry/>.

Novar, F. (2018). SCOR and AHP Based Monitoring Dashboard to

Measure Rice Sourcing Performance at Indonesian Bureau of Logistics. *2018 12th International Conference on Telecommunication Systems, Services, and Applications (TSSA)*, 1–

6.

Oktaviani, R., & Suyitno, H. (2015). Efektivitas Algoritma Clarke right

Dan Sequential Insertion Dalam Penentuan Rute Pendistribusian

Tabung Gas Lpg. *Unnes Journal of Mathematics Education*, 5(3),

198–210. <http://journal.unnes.ac.id/sju/index.php/ujme>

Perdana, T., Handayati, Y., Sadeli, A. H., Utomo, D. S., & Hermiatin, F. R.

(2020). A Conceptual Model of Smart Supply Chain for Managing Rice

Industry. *MIMBAR : Jurnal Sosial Dan Pembangunan*, 36(1), 128–138.

<https://doi.org/10.29313/mimbar.v36i1.5431>



Phonin, S., & Likasiri, C. (2021). 3-Phase heuristics for capacitated multiple-depot vehicle routing problem with separate backhaul and linehaul with a case study on corn residue management system. *Computers and Industrial Engineering*, 158(March 2019), 107395.
<https://doi.org/10.1016/j.cie.2021.107395>

Purwandoko, P. B., & Seminar, K. B. (2019). *Development of a Smart Traceability System for the Rice Agroindustry Supply chain in Indonesia.* d.

Putra, D. A. (2019, Oktober 15). *Ekonomi*. Retrieved from Liputan 6.com:
<https://www.liputan6.com/bisnis/read/4087062/bulog-ungkap-penyebab-harga-beras-naik-di-pasaran>

Putro, P. A. W., Purwaningsih, E. K., Sensuse, D. I., Suryono, R. R., & Kautsarina. (2021). Model and implementation of rice supply chain management: A literature review. *Procedia Computer Science*, 197, 453–460. <https://doi.org/10.1016/j.procs.2021.12.161>

Ropke, S., & Pisinger, D. (2006). An adaptive large neighborhood search heuristic for the pickup and delivery problem with time windows. *Transportation Science*, 40(4), 455–472. <https://doi.org/10.1287/trsc.1050.0135>

Şafak, Ö., & Erdogan, G. (2023). A Large Neighbourhood Search Algorithm for Solving Container Loading Problems. *Computers and Operations Research*, 154(May 2022), 106199. <https://doi.org/10.1016/j.cor.2023.106199>

Santos, E., Ochi, L. S., Simonetti, L., & González, P. H. (2016). A Hybrid Heuristic based on Iterated Local Search for Multivehicle Inventory Routing Problem. *Electronic Notes in Discrete Mathematics*, 52, 197–204.
<https://doi.org/10.1016/j.endm.2016.03.026>

Setyono, A., Kusbiantoro, B., Jumali, Wibowo, P., & Guswara, A. (2008). Seminar Nasional Padi. *Evaluasi Mutu Beras Di Beberapa Wilayah Sentra Produksi Padi*.

Sharma, V., Giri, S., & Shankar Rai, S. (2013). Supply Chain Management Of Rice In India: A Rice Processing Company's Perspective. *International Journal of Managing Value and Supply Chains*, 4(1), 25–36.
<https://doi.org/10.5121/ijmvsc.2013.4103>

Sitek, P., Wikarek, J., Rutkowska-Wdowiak, K., Bocewicz, G., & Banaszak, Z. (2021). Optimization of capacitated vehicle routing problem with alternative delivery, pick-up and time windows: A modified hybrid approach. *Neurocomputing*, 423, 670–678.
<https://doi.org/10.1016/j.neucom.2020.02.126>

Suckling, J., Druckman, A., Small, R., Cecelja, F., & Bussemaker, M. (2021). Supply chain optimization and analysis of Hermetia illucens (black soldier



- fly) bioconversion of surplus foodstuffs. *Journal of Cleaner Production*, 321(March), 128711. <https://doi.org/10.1016/j.jclepro.2021.128711>
- Sutoni, A., Subhan, A., Setyawan, W., Bhagyana, F. O., & Mujiarto. (2021). Performance Analysis Using the Supply Chain Operations Reference (SCOR) and AHP Method. *Journal of Physics: Conference Series*, 1764(1). <https://doi.org/10.1088/1742-6596/1764/1/012155>
- Timmer, C. P. (2004). *Food Security in Indonesia: Current Challenges and the Long Run Out Look*, 48.
- Urianty, D., Rohmah, M., Agustin, W., Dania, P., & Atsari, I. (2015). Risk Measurement of Supply Chain Organic Rice Product using Fuzzy Failure Mode Effect Analysis in MUTOS Seloliman Trawas Mojokerto. *Italian Oral Surgery*, 3, 108–113. <https://doi.org/10.1016/j.aaspro.2015.01.022>
- Voigt, S., Frank, M., Fontaine, P., & Kuhn, H. (2022). Hybrid adaptive large neighborhood search for vehicle routing problems with depot location decisions. *Computers and Operations Research*, 146(November 2021), 105856. <https://doi.org/10.1016/j.cor.2022.105856>
- Wen, M., Sun, W., Yu, Y., Tang, J., & Ikou, K. (2022). An adaptive large neighborhood search for the larger-scale multi depot green vehicle routing problem with time windows. *Journal of Cleaner Production*, 374(September), 133916. <https://doi.org/10.1016/j.jclepro.2022.133916>
- Widyarto, A., Bintang, P. T., Group, S., Ekonomi, F., Muhammadiyah, U., Jalan, S., & Yani, A. (2012). PERAN SUPPLY CHAIN MANAGEMENT DALAM SISTEM PRODUKSI DAN OPERASI PERUSAHAAN. In *Peran Supply chain management dalam ... BENEFIT Jurnal Manajemen dan Bisnis* (Vol. 16, Issue 2).
- Wilasinee, S., Imran, A., & Athapol, N. (2010a). *Optimization of Rice Supply Chain in Thailand: A Case Study of Two Rice Mills* (pp. 263–280). https://doi.org/10.1007/978-90-481-9914-3_27
- Winardi, (1999). Pengantar tentang Teori Sistem dan Analisis Sistem. Bandung : Mandar Maju.
- Wu, J., Zhang, J., Yi, W., Cai, H., Li, Y., & Su, Z. (2022). Agri-biomass supply chain optimization in north China: Model development and application. *Energy*, 239. <https://doi.org/10.1016/j.energy.2021.122374>
- Yang, J., Wang, J., Xu, C., Liu, Y., Yin, Q., Wang, X., Wang, L., Wu, Y., & Xiao, G. (2021). Rice supply flows and their determinants in China. *Resources, Conservation and Recycling*, 174(March), 105812. <https://doi.org/10.1016/j.resconrec.2021.105812>
- Yu, V. F., Jodiawan, P., & Gunawan, A. (2021). An Adaptive Large Neighborhood Search for the green mixed fleet vehicle routing problem with



UNIVERSITAS
GADJAH MADA

**Multivehicle Capacitated Vehicle Routing Problem Komoditas Beras di Indonesia Dengan
Mempertimbangkan Faktor Emisi Karbon dan Kerusakan Akibat Cuaca**

Fadhil Wina Ramadhani, Achmad Pratama Rifai, S.T., M.Eng., Ph.D

Universitas Gadjah Mada, 2023 | Diunduh dari <http://etd.repository.ugm.ac.id/>

realistic energy consumption and partial recharges. *Applied Soft Computing*, 105, 107251. <https://doi.org/10.1016/j.asoc.2021.107251>

Zhang, X., Zhang, J., & Fan, X. (2022). Offline approximate value iteration for dynamic solutions to the multivehicle routing problem with stochastic demand. *Computers and Operations Research*, 146(March), 105884. <https://doi.org/10.1016/j.cor.2022.105884>