

## DAFTAR PUSTAKA

- Alekseytsev, A. V., Nadirov, S.H., 2022. Scheduling Optimization Using an Adapted Genetic Algorithm with Due Regard for Random Project Interruptions. *Buildings* 12. <https://doi.org/10.3390/buildings12122051>
- Alhamad, K., Alkhezi, Y., 2024. Hybrid Genetic Algorithm and Tabu Search for Solving Preventive Maintenance Scheduling Problem for Cogeneration Plants. *Mathematics* 12. <https://doi.org/10.3390/math12121881>
- Bagshaw, K.B., 2021. NEW PERT and CPM in Project Management with Practical Examples. *American Journal of Operations Research* 11, 215–226. <https://doi.org/10.4236/ajor.2021.114013>
- Boukedroun, M., Duvivier, D., Ait-El-Cadi, A., Poirriez, V., Abbas, M., 2023. A hybrid genetic algorithm for stochastic job-shop scheduling problems. *RAIRO - Operations Research* 57, 1617–1645. <https://doi.org/10.1051/ro/2023067>
- Bozejko, W., Hejducki, Z., Rogalska, M., Wodecki, M., 2011. Scheduling of Construction Projects with a Hybrid Evolutionary Algorithm's Application, dalam: *Evolutionary Algorithms*. InTech. <https://doi.org/10.5772/15024>
- Bunney, R.W., Wicenc, A., Reynolds, M., 2020. SHADOW: A workflow scheduling algorithm reference and testing framework, *PROC. OF THE 19th PYTHON IN SCIENCE CONF.*
- Calp, M.H., Akcayol, M.A., 2018. Optimization of Project Scheduling Activities in Dynamic CPM and PERT Networks Using Genetic Algorithms. *Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi* 22, 615. <https://doi.org/10.19113/sdufbed.35437>
- Chung-Wei Feng, B., Liu, L., Member, A., Burns, S.A., 1997. USING GENETIC ALGORITHMS TO SOLVE CONSTRUCTION TIME-COST TRADE-OFF PROBLEMS.
- Chung-Wei Feng, B., Liu, L., Member, A., Burns, S.A., t.t. USING GENETIC ALGORITHMS TO SOLVE CONSTRUCTION TIME-COST TRADE-OFF PROBLEMS.

- Elsahly, O.M., Ahmed, S., Abdelfatah, A., 2023. Systematic Review of the Time-Cost Optimization Models in Construction Management. Sustainability (Switzerland). <https://doi.org/10.3390/su15065578>
- Erdal, M., Kanit, R., 2021. Scheduling of construction projects under resource-constrained conditions with a specifically developed software using genetic algorithms. Tehnicki Vjesnik 28, 1362–1370. <https://doi.org/10.17559/TV-20200305101811>
- Erdem Özleyen, t.t. A genetic algorithm for the resource constrained project scheduling problem.
- Eshim, S.E., Elferjany, M.G., 2024. Using Critical Path Method for Project Planning and Scheduling with Primavera P6. American Journal of Engineering Research 104–110.
- Faghihi, V., Reinschmidt, K.F., Kang, J.H., 2014. Construction scheduling using Genetic Algorithm based on Building Information Model. Expert Syst Appl 41, 7565–7578. <https://doi.org/10.1016/j.eswa.2014.05.047>
- Fika Giri, 2017. TIME COST TRADE OFF ANALISYS UNTUK PENGOPTIMALAN WAKTU DAN BIAYA PROYEK (STUDI KASUS: PEMBANGUNAN UPT PUSKESMAS KARANGPUCUNG).
- Ganesh, A.H., Shobana, A.H., Ramesh, R., 2020. Identification of critical path for the analysis of bituminous road transport network using integrated FAHP - FTOPSIS method, dalam: Materials Today: Proceedings. Elsevier Ltd, hlm. 193–206. <https://doi.org/10.1016/j.matpr.2020.05.015>
- George, R.T., 1953. INTIHA: ISLAMIC EDUCATION JOURNAL EDUCATIONAL MANAGEMENT FUNCTIONS: PLANNING, ORGANIZING, ACTUATING, CONTROLLING.
- Hagberg, A.A., Schult, D.A., Swart, P.J., 2008. Exploring Network Structure, Dynamics, and Function using NetworkX, dalam: Proceedings of the 7th Python in Science Conference. SciPy, hlm. 11–15. <https://doi.org/10.25080/tcww9851>



- Hem Soe, P., Min Htike, T., 2018. Critical path analysis programming method without network diagram, dalam: MATEC Web of Conferences. EDP Sciences. <https://doi.org/10.1051/mateconf/201819201027>
- Hoosyar, B., Rahmani, A., Shenasa, M., 2008. 2008 IEEE Congress on Evolutionary Computation. I E E E.
- Husen, 2011. BAB I PENDAHULUAN.
- Iramutyn, 2010. PENERAPAN METODE CRASHING DALAM PERCEPATAN DURASI PROYEK DENGAN ALTERNATIF PENAMBAHAN JAM LEMBUR DAN SHIFT KERJA (Studi Kasus: Proyek Pembangunan Hotel Grand Keisha, Yogyakarta).
- Iranagh, M.A., Sonmez, R., 2012. A genetic algorithm for resource leveling of construction projects.
- Isikyildiz, S., Akcay, C., 2020. Multi-objective optimization of time-cost-quality in construction projects using genetic algorithm. *Revista de la Construcción* 19, 335–346. <https://doi.org/10.7764/RDLC.19.3.335>
- Kadang, T., Hidayah, P.W., Simarmata, K., Putri, N.A., Krisvinus, K., 2024. Analysis of Consultant Building Project Management Using the CPM (Critical Path Method). *Journal of Business Management and Economic Development* 2, 1169–1179. <https://doi.org/10.59653/jbmed.v2i03.891>
- Khajesaedi, S., Sadjadi, S.J., Barzinpour, F., Moghaddam, R.T., 2025. Resource-constrained project scheduling problem: Review of recent developments. *Journal of Project Management (Canada)* 10, 1–26. <https://doi.org/10.5267/j.jpm.2024.12.002>
- Khalilzadeh, M., Hosseini, S.H., Ghaeli, R., 2020. A genetic algorithm-based method for solving multi-mode resource-constrained project scheduling problem in uncertain environment. *Journal of Project Management (Canada)* 5, 79–86. <https://doi.org/10.5267/j.jpm.2020.1.002>
- Kim, K., 2020. Generalized resource-constrained critical path method to improve sustainability in construction project scheduling. *Sustainability (Switzerland)* 12, 1–19. <https://doi.org/10.3390/su12218918>



- Korchagin, A., Zaycev, D., 2021. Evolution of project management in bridge construction, dalam: *Transportation Research Procedia*. Elsevier B.V., hlm. 325–331. <https://doi.org/10.1016/j.trpro.2021.09.057>
- Lan, L., Berkhout, J., 2025. PyJobShop: Solving scheduling problems with constraint programming in Python.
- Liu, G., Li, X., Alam, K.M., 2023. Multiple objective immune wolf colony algorithm for solving time-cost-quality tradeoff problem. *PLoS One* 18. <https://doi.org/10.1371/journal.pone.0278634>
- Mahendra, S.S., 2004. Mahendra Sultan Syah (2004).
- Milat, M., Knezić, S., Sedlar, J., 2022. Application of a Genetic Algorithm for Proactive Resilient Scheduling in Construction Projects. *Designs (Basel)* 6. <https://doi.org/10.3390/designs6010016>
- Mohammadjafari, A., Farid Ghannadpour, S., Bagherpour, M., Zandieh, F., t.t. Multi-Objective Multi-mode Time-Cost Tradeoff modeling in Construction Projects Considering Productivity Improvement.
- Mohanty, A., Mishra, J., Satpathy, B., 2011. Activity modes selection for project crashing through deterministic simulation. *Journal of Industrial Engineering and Management* 4, 610–623. <https://doi.org/10.3926/jiem.224>
- Mr.Bhushan V, Tatar, Prof.Rahul S.Patil, 2016. Time and Cost Optimization Techniques in Construction Project Management. *International journal of Latest Trends in Engineering & Technology* 7. <https://doi.org/10.21172/1.73.032>
- Mutakhirah, I., Saptono, F., Hasanah, N., Wiryadinata, R., 2007. PEMANFAATAN METODE HEURISTIK DALAM PENCARIAN JALUR TERPENDEK DENGAN ALGORITMA SEMUT DAN ALGORITMA GENETIKA, Seminar Nasional Aplikasi Teknologi Informasi.
- Naseri, H., 2018. Time-Cost Trade off to Compensate Delay of Project Using Genetic Algorithm and Linear Programming. *International Journal of Innovation, Management and Technology* 285–290. <https://doi.org/10.18178/ijimt.2018.9.6.826>



Ndidiamaka, E.P., Favour Elohor, E., Cynthia Ndidiamaka, N., Ndubuisi Obasi, Igwe, Charles

Arinze, O., 2024. Project Management Using Critical Path Method (CPM) and Project Evaluation and Review Technique (PERT). INTERNATIONAL JOURNAL OF MATHEMATICS AND COMPUTER RESEARCH 12.

<https://doi.org/10.47191/ijmcr/v12i12.03>

Ökmen, t.t. A procedure for critical path.

Ozdamar, L., 1999. A Genetic Algorithm Approach to a General Category Project Scheduling Problem, APPLICATIONS AND REVIEWS.

Ozleyen, E., t.t. A Genetic Algorithm for the Resource-Constrained Project Scheduling Problem.

Perrucci, D. V., Wilson, J., Brown, R., Mireles Camey, J., Doktycz, C., Perry, M., Buitrago, G.C., 2025. Using the critical path method (CPM) for evaluating allocation potential of temporary housing units. Journal of Housing and the Built Environment. <https://doi.org/10.1007/s10901-025-10196-z>

Prayogo, M.Y., C., Prayogo, 2017. A Novel Implementation of Nature-inspired Optimization for Civil Engineering: A Comparative Study of Symbiotic Organisms Search. Civil Engineering Dimension 19. <https://doi.org/10.9744/ced.19.1.36-43>

Proboyo Budiman, 1999. KETERLAMBATAN WAKTU PELAKSANAAN PROYEK : KLASIFIKASI DAN PERINGKAT DARI PENYEBAB-PENYEBABNYA.

Rashid, H.A., Al-Juboori, O.A., Mohammed, A., Mahjoob, R., t.t. Genetic Algorithms In Construction Project Management : A Review.

Ravianto, 2002. BAB II. TINJAUAN TEORI MAJAJEMEN PROYEK.

Sadi Assaf, B.A., Al-Khalil, M., Al-HazmP, M., 1995. CAUSES OF DELAY IN LARGE BUILDING CONSTRUCTION PROJECTS.

Sam'ani, 2012. Menganalisis Konsep Dasar Algoritma Genetika. Bhinneka: Jurnal Bintang Pendidikan dan Bahasa 2, 120–132. <https://doi.org/10.59024/bhinneka.v2i1.643>

Senouci, A.B., Naji, K.K., 2003. Resource-constrained scheduling of construction projects using genetic algorithms.



Sivanandam, S.N., Deepa, S N, 2007. Introduction to Genetic Algorithms.

Soeharto, 1995. Soeharto (1995).

Son, P.V.H., Khoi, L.N.Q., 2022. Utilizing artificial intelligence to solving time – cost – quality trade-off problem. Sci Rep 12. <https://doi.org/10.1038/s41598-022-24668-7>

Srim, K.R., Padmarekha, A., Anandh, K.S., 2023. Automated construction schedule optimization using Genetic Algorithm. <https://doi.org/10.21203/rs.3.rs-2918812/v1>

Suhas Bagal, Mahesh Jadhav, Siddharth Jadhav, Vikas Bhopale, Prof. Shende Y.N, 2024. Generate Electricity by Waste Material. Int J Sci Res Sci Eng Technol 11, 190–193. <https://doi.org/10.32628/ijrsrset>

Sulbaran, T., t.t. Graph Theory Implementation Towards Artificial Intelligence Generated Construction Schedule.

Tiwari, A., Sharma, K., Trivedi, M.K., 2022. NSGA-III-Based Time–Cost–Environmental Impact Trade-Off Optimization Model for Construction Projects. hlm. 11–25. [https://doi.org/10.1007/978-981-16-1220-6\\_2](https://doi.org/10.1007/978-981-16-1220-6_2)

Tucay Quezon, E., Ibanez, A.G., 2021. Effect of Covid-19 Pandemic in Construction Labor Productivity: A Quantitative and Qualitative Data Analysis Effect of Covid-19 Pandemic in Construction Labor Productivity: A Quantitative and Qualitative Data Analysis Effect of Covid-19 Pandemic in Construction Labor Productivity: A Quantitative and Qualitative Data Analysis. American Journal of Civil Engineering and Architecture 9, 23–33. <https://doi.org/10.12691/ajcea-9-1-4>

Vazquez, A., Pozzana, I., Kalogridis, G., Ellinas, C., t.t. Activity networks determine project performance.

Wang, L., Liu, H., Xia, M., Wang, Y., Li, M., 2024. A machine learning based EMA-DCPM algorithm for production scheduling. Sci Rep 14. <https://doi.org/10.1038/s41598-024-71355-w>

Xie, L., Chen, Y., Chang, R., 2021. Scheduling optimization of prefabricated construction projects by genetic algorithm. Applied Sciences (Switzerland) 11. <https://doi.org/10.3390/app11125531>



Yeh, W.-C., t.t. Binary Weight Allocation for Multi-Objective Path Optimization: Efficient Earliest and Latest Path Discovery in Network Systems.

Yu, C., Semeraro, Q., Matta, A., 2018. A genetic algorithm for the hybrid flow shop scheduling with unrelated machines and machine eligibility. *Comput Oper Res* 100, 211–229. <https://doi.org/10.1016/j.cor.2018.07.025>

Yu, Y., Han, J., Gu, H., Yang, Y., 2023. Dynamic Optimization of Construction Time-Cost for Deep and Large Foundation Pit Based on BIM Technology and Genetic Algorithm. *Applied Sciences (Switzerland)* 13. <https://doi.org/10.3390/app131910716>

Zakia, Febrianti, D., 2021. The Critical Path Method in Construction Project Rescheduling, dalam: *IOP Conference Series: Earth and Environmental Science*. IOP Publishing Ltd. <https://doi.org/10.1088/1755-1315/832/1/012009>

Zeng, Y., 2014. A Genetic Algorithm-based Study on the Optimization of Scheduling of Project Development. *Industrial Engineering & Management* 03. <https://doi.org/10.4172/2169-0316.1000140>