

DAFTAR PUSTAKA

- Aferius Zebua, A., Ingatan Zebua, I., Endayanti, M., & Ginting, R. (2024). Evaluasi struktur atas pada pembangunan Gedung Irian Setia Budi Medan. *Jurnal Ilmiah Teknik Sipil*, 13(2).
- Akintoye, A., & Skitmore, M. (2018). Construction Procurement and Cost Management. *Journal of Construction Management*, 34(2), 145–162.
- Amal, B., & Dian Purnama, D. (2023). 3D MODELING OF EXISTING TOLL ROADS WITH BIM (Case Study: West Karawang Toll Exit). In *Menara : Jurnal Teknik Sipil* (Vol. 18, Issue 2).
- Azhar, S. (2017). *Building Information Modeling (BIM): Trends, Benefits, Risks, and Challenges for the AEC Industry*. *Automation in Construction*, 22, 827–832.
- Becerik-Gerber, B., & Kensek, K. (2015). *Building Information Modeling in Architecture, Engineering, and Construction: Emerging Research Directions and Trends*. *Journal of Information Technology in Construction*, 20, 1–16.
- Borrmann, A., König, M., Koch, C., & Beetz, J. (2018). *Building Information Modeling: Technology Foundations and Industry Practice*. Springer.
- Cheng, M. Y., Tsai, H. C., & Chiu, Y. H. (2016). Fuzzy Case-Based Reasoning for Decision Support in Cost Estimation. *Automation in Construction*, 73, 55–66.
- Dica Rosmyanto, Lily Kholida, & M. Heri Sukantara. (2023). Analisis Biaya Pekerjaan Ulang Konstruksi Berdasarkan Data Evaluasi Desain dengan Sistem *Building Information Modeling*. *Technologic*, 13(2).
- Eastman, C., Teicholz, P., Sacks, R., & Liston, K. (2020). *BIM Handbook: A Guide to Building Information Modeling for Owners, Managers, Designers, Engineers, and Contractors* (3rd ed.). Wiley.
- Fitriani, N., Kurniawan, W., & Handayani, D. (2021). Penerapan Work Breakdown Structure (WBS) dalam Manajemen Proyek Konstruksi. *Jurnal Karya Teknik Sipil*, 10(2), 45–52.

- Gamil, Y., & Abdul Rahman, I. (2020). *Project Planning Tools and Techniques in Managing Construction Projects. Journal of Engineering, Design and Technology, 18(6)*, 1445–1460.
- Gamil, Y., & Rahman, I. A. (2019). The Impact of BIM on Cost Estimation in Construction Projects. *Journal of Engineering and Applied Sciences, 14(7)*, 2423–2432.
- Ghaffarianhoseini, A. (2017). *Building Information Modeling (BIM) Uptake: Technological Advancement, Research Trends, and Future Directions. Automation in Construction, 73*, 94–109.
- Handrawan, E. H., Purnomo, A., Berliana, R., Rekeyasa, T., & Bangunan, K. (2024). Penggunaan Building Information Modelling (BIM) Studi Kasus: Siswa SMKN 4 Jakarta. *Jurnal Pendidikan Tambusai, 8*.
- Hardin, B., & McCool, D. (2015). *BIM and Construction Management: Proven Tools, Methods, and Workflows* (2nd ed.). Wiley.
- Hassan, M. (2023). 5D BIM Technology in Cost Control and Clash Detection in Construction. *International Journal of BIM and Construction, 19(3)*, 105–118.
- Indriani Agustina, B. A. G., & Endayanti, M. (2022). Evaluasi struktur bawah pada pembangunan gedung pendidikan IAIN Padangsidempuan. *Jurnal Ilmiah Teknik Sipil, 11(2)*, 196–201.
- Khusnul Aldi Saputra, Bobby Asukmajaya Raharjo, & Anisah Nur Fajarwati. (2023). Analisis Clash Detection dan Quantity Take-Off Struktur Atas Gedung B RSUD Krian Menggunakan Metode BIM. *Jurnal Online Skripsi Manajemen Rekayasa Konstruksi (JOS-MRK), 3(1)*.
- Kim, K., Park, J., & Lee, H. (2016). A BIM-based Quantity Takeoff for Construction Cost Estimating. *Journal of Civil Engineering and Management, 22(8)*, 1015–1025.
- Kumar, A., Chandrasekaran, S., & Ramasamy, S. (2021). BIM-based Estimation for Construction Cost Optimization. *International Journal of Construction Management, 21(4)*, 512–523.

- Kumar, B., & Cheng, J. (2018). BIM-Based Collaboration and Coordination in Construction Projects. *Engineering, Construction, and Architectural Management*, 25(2), 189–204.
- Latiffi, A. A., Abualdenien, J., & Borrmann, A. (2023). Building Information Modeling-based information management platform in the construction industry. *International Journal of Academic Research in Business and Social Sciences*, 13(4), 1962–1975.
- Li, P. (2022). Exploring the Integration of BIM and Cost Management: A 5D Approach. *Journal of Engineering and Technology*, 10(6), 170–184.
- Lu, W., Fung, I., W. H, Peng, Y., Liang, C., & Rowlinson, S. (2016). Demystifying the Benefits and Risks of Adopting BIM in Construction Projects. *Journal of Construction Engineering and Management*, 142(2).
- Luthfi, M. R., Widjaja, G., & Nugraha, A. S. (2022). Integration of BIM and Cost Estimation: A Case Study in Indonesia. *Procedia Engineering*, 214, 345–352.
- Mardianti, T., Siringoringo, T., Putri, W. N., Rekayasa, M., Gedung, K., Sipil, T., & Medan, P. N. (2023). PENERAPAN BIM UNTUK QTO DAN RAB PEKERJAAN STRUKTUR ATAS PADA PROYEK LANJUTAN PEMBANGUNAN GEDUNG ASRAMA MAHAD AL-JAMIAH TAHAP II.
- Monteiro, A., & Martins, J. P. (2018). A Comparison Between BIM-based and Traditional Quantity Takeoff Methods. *Automation in Construction*, 89, 235–247.
- Muhammad Rizky Elyano. (2020). *Clash Detection and Quantity Take-Off Analysis in Warehouse Project with BIM Based Technology (Case Study: IKEA Jakarta Garden City)*. BINUS University.
- Nardiansyah, A. (2021). 3.+Penelitian+S5+Back+Issu+-+Evaluasi+Efektivitas+Penggunaan+Metode+Building+Information+Modeling+(BIM)+dalam+Manajemen+Proyek+Konstruksi. *Jurnal Review Pendidikan Dan Pengajaran*, 4.

- Ni Luh Putu Nada Patricia, N., Agustini, N. K. A., & Triswandana, I. W. G. E. (2025). Analisis perilaku struktur beton bertulang dengan sistem rangka terbuka dan infilled pada beban gempa. *Journal of Civil Engineering Building and Transportation*, 9(1), 102–114.
- Olatunji, O. A. (2019). Modelling the Impact of BIM on Construction Cost Estimation. *Journal of Construction Engineering and Management*, 145(4).
- Perera, S., Sutrisna, M., & Yiu, T. (2021). IM-based Cost Estimation: Challenges and Opportunities. *Journal of Construction Economics*, 145(4), 215–230.
- Pratama, A., & Susanti, R. (2019). Penerapan *Building Information Modeling* (BIM) dalam meningkatkan akurasi perhitungan *volume* pekerjaan struktur. *Jurnal Teknik Sipil*, 18(2), 123–130.
- Project Management Institute. (2017). *A Guide to the Project Management Body of Knowledge (PMBOK® Guide)* (6th ed.).
- Ramadhan, A., & Subakti, A. (2020). Optimization of *Unit Price Analysis* for Construction *Projects* in Indonesia. *Journal of Civil Engineering and Management*, 26(3), 201–210.
- RICS. (2020). *International Construction Measurement Standards: Global Cost Estimation Framework*.
- Robby, E. H. M. A. M. (2025). EVALUASI+PENGGUNAAN+TEKNOLOGI+BUILDING+INFORMATI ON+MODELING+(BIM)+DALAM+PROSES+PERENCANAAN+DAN+K ONSTRUKSI+BANGUNAN+GEDUNG. *Kohesi: Jurnal Multidisiplin Saintek*, 6.
- Saputra, D., & Wahyudi, R. (2019). The *Importance of Unit Price Analysis* in Construction *Project Cost Planning*. *Journal of Construction Engineering*, 11(2), 120–128.
- Sastra Wibawa, I. M., Putra Wirawan, I. P. A., Nada, I. M., & Wira Saputra, I. M. L. (2022). Analisis Kinerja Struktur Gedung Beton Bertulang dengan dan

- tanpa Pasangan Dinding Pengisi Berlubang Terhadap Beban Gempa. *Jurnal Ilmiah Kurva Teknik*, 11(2), 10–16. <https://doi.org/10.36733/jikt.v11i2.5423>
- Shen, W., Shen, Q., & Lu, Q. (2019). A BIM-based Framework for Quantity Takeoff and Cost Estimation. *Automation in Construction*, 102, 148–159.
- Smith, P. (2021). BIM and Cost Management: A New Era in Quantity Surveying. *Procedia Engineering*, 219, 276–284.
- Sofian Arissaputra, & Yaya Yaya. (2024). Pengaruh Clash Detection pada Biaya Pembangunan Apartemen di Jakarta. *Technologi*, 14(1).
- Subiyantari, A. R., Gazali, A., Handoyo, S. S., & Arifah, S. (2024). RELEVANCE OF BUILDING ENGINEERING EDUCATION CURRICULUM TOWARDS SKKNI BUILDING AND CONSTRUCTION MANAGEMENT COMPETENCIES. *Jurnal PenSil*, 13(3), 299–313. <https://doi.org/10.21009/jpensil.v13i3.48949>
- Succar, B. (2016). The BIM Maturity Matrix: Defining and Assessing BIM Implementation Stages. *Automation in Construction*, 71, 44–55.
- Succar, B. (2017). BIM Maturity in Construction Projects: Frameworks, Levels, and Applications. *Journal of Building Performance*, 10(1), 45–62.
- Sutrisna, M., & Tan, Y. (2020). Integration of Work Breakdown Structure with Building Information Modeling for Construction Planning. *Journal of Construction Engineering and Management*, 146(4), 04020023.
- Sutrisno, B., Arifin, Y., & Wahyuningsih, D. (2018). Comparative Study of Traditional and BIM-based Cost Estimation Methods. *Construction Research Journal*, 10(1), 45–57.
- Teizer, J., Cheng, T., & Fang, Y. (2021). Level of Development (LOD) in Digital Twin Technology for Construction. *Journal of Computing in Civil Engineering*, 35(4).

- Volk, R., Stengel, J., & Schultmann, F. (2019). *Building Information Modeling (BIM) for Existing Buildings—Literature Review and Future Needs. Automation in Construction, 38*, 109–127.
- Won, J., Lee, G., Dossick, C., & Messner, J. (2020). The Impact of BIM on Construction Cost Estimation: A Comparative Study. *Journal of Construction Engineering and Management, 146*(3).
- Won, J., Lee, G., Dossick, C., & Messner, J. (2022). Construction 4.0 and the Future of BIM. *Journal of Construction Engineering and Management, 148*(6).
- Zahrizan, Z., Ching, H., & Ismail, M. (2016). BIM and Cost Estimation: Improving Accuracy and Efficiency. *Automation in Construction, 68*, 39–48.
- Zawada, K., Rybak-Niedziółka, K., Donderewicz, M., & Starzyk, A. (2024). Digitization of AEC Industries Based on BIM and 4.0 Technologies. *Buildings, 14*(5), 1350. <https://doi.org/10.3390/buildings14051350>
- Zawawi, N. A. W. A., Kamaruzzaman, S. N., & Salleh, H. (2017). The Importance of Bill of Quantity in Construction Projects. *Procedia Engineering, 180*, 687–694.
- Zhang, J., Teizer, J., & Lu, W. (2018). Clash Detection and Resolution Using BIM: A Systematic Review. *Automation in Construction, 89*, 218–232.
- Zhang, J., Teizer, J., & Lu, W. (2021). Review of BIM Applications in Facility Management: Challenges and Opportunities. *Journal of Computing in Civil Engineering, 35*(3).
- Zhang, X. (2022). Clash Detection and Cost Estimation Integration with 5D BIM. *Journal of Construction Management, 34*(2), 123–145.