## DAFTAR PUSTAKA

**[1]** Al Faia, D., & Alomar, K. (2025). Exploring Adaptive, Adaptable, Mixed, and Static Arabic Rule-Based Chatbot Effects on Usability, Learning Success, and Engagement. *Applied Sciences*, 15(24), 13266. https://doi.org/10.3390/app152413266

**[2]** Albreiki, B., Habuza, T., & Zaki, N. (2022). Framework for automatically suggesting remedial actions to help students at risk based on explainable ML and rule-based models. *International Journal of Educational Technology in Higher Education*, 19(1), 49. https://doi.org/10.1186/s41239-022-00354-6

**[3]** Andryana, S., Mantoro, T., Mutiara, A. B., Ernastuti, E., Prihandoko, P., & Gunaryati, A. (2026). Improving University Ranking Robustness Using Rank Geometric Weight Integration with CoCoSo Method for Reducing Ordinal Weighting Instability. *Journal of Applied Data Sciences*, 7(1), 89-100. https://doi.org/10.47738/jads.v7i1.1024

**[4]** Brooke, J. (1996). SUS - A quick and dirty usability scale. *Usability Evaluation in Industry*, 189(194), 4-7.

**[5]** Deraman, N. A., Wan Ariffin, W. M. A., Samah, K. A. F. A., Jono, M. N. H. H., Isa, M. A. M., Zamzuri, Z. F., & Yahaya, S. A. (2021). Covid19 and Higher Education: A Degree Course Recommender System Based on Personality Using Rule-Based. *IOP Conference Series: Earth and Environmental Science*, 704(1), 012021. https://doi.org/10.1088/1755-1315/704/1/012021

**[6]** Fachri, B., Rizal, C., & Supiyandi, S. (2023). Penerapan Metode Waterfall Dalam Perancangan Sistem Informasi Merdeka Belajar Kampus Merdeka Berbasis Web. *JUKTISI (Jurnal Komputer Teknologi Informasi Sistem Komputer)*, 2(3), 591-597. https://doi.org/10.62712/juktisi.v2i3.147

**[7]** Fetrati, H., Chan, G., & Orji, R. (2025). Leveraging Generative and Rule-Based Models for Persuasive STI Education: A Multi-Chatbot Mobile Application. *Proceedings of the 7th ACM Conference on Conversational User Interfaces (CUI '25)*, 1-9. https://doi.org/10.1145/3719160.3737619

**[8]** Hadad, S. H., Darwis, D., Qurania, A., Aldino, A. A., Mehta, A. R., Rahmanto, Y., & Setiawansyah. (2023). Student Ranking Based on Learning Assessment Using the Simplified PIPRECIA Method and CoCoSo Method. *Journal of Systems and*

*Computer Engineering (JOSYC)*, 5(1), 30-39. https://doi.org/10.47065/josyc.v5i1.4544

**[9]** Huang, S., Cheng, H., & Luo, M. (2024). Comparative Study on Barriers of Supply Chain Management MOOCs in China: Online Review Analysis with a Novel TOPSIS-CoCoSo Approach. *Journal of Theoretical and Applied Electronic Commerce Research*, 19(3), 1793-1811. https://doi.org/10.3390/jtaer19030088

**[10]** Li, J., Li, K., Zhu, H., Yang, C., & Han, J. (2025). An Approximate Belief Rule Base Student Examination Passing Prediction Method Based on Adaptive Reference Point Selection Using Symmetry. *Symmetry*, 17(10), 1687. https://doi.org/10.3390/sym17101687

**[11]** Li, J., Zhou, W., Jiang, S., Zhang, T., Duan, X., Ma, N., & Wang, Y. (2026). The multi-parameter optimized belief rule base for predicting student performance with interpretability. *Scientific Reports*. https://doi.org/10.1038/s41598-026-35950-3

**[12]** Li, L., & Xiao, Z. (n.d.). Advanced CoCoSo method for uncertain MAGDM.

**[13]** Mintarsih, M. (2023). Pengujian Black Box Dengan Teknik Transition Pada Sistem Informasi Perpustakaan Berbasis Web Dengan Metode Waterfall Pada SMC Foundation. *JTEKSIS (Jurnal Teknologi Dan Sistem Informasi Bisnis)*, 5(1), 33-35. https://doi.org/10.47233/jteksis.v5i1.727

**[14]** Ouatiq, A., El-Guemmat, K., Mansouri, K., & Qbadou, M. (2022). A design of a multi-agent recommendation system using ontologies and rule-based reasoning: pandemic context. *International Journal of Electrical and Computer Engineering (IJECE)*, 12(1), 515-523. https://doi.org/10.11591/ijece.v12i1.pp515-523

**[15]** Pradana, M. I., & Mariana, N. (2023). Analisis dan Perancangan Sistem Raport Digital Metode Waterfall. *Journal on Education*, 5(2), 5143-5151. https://doi.org/10.31004/joe.v5i2.1250

**[16]** Schultz, O. (2025). Rule-Based Access To Learning Materials In A Flipped Class In Embedded Programming. *Book of Proceedings for the 52nd Annual Conference of the European Society for Engineering Education (SEFI)*, 2138-2147. https://doi.org/10.5281/zenodo.14256929

**[17]** Setiawansyah. (2026). Comparative Analysis of CODAS, TOPSIS, and COCOSO Methods Using Objective Weighting in Multi-Criteria Decision Support

Systems. *Jurnal Ilmiah Informatika dan Ilmu Komputer (JIMA-ILKOM)*, 5(1), 25-45. https://doi.org/10.58602/jima-ilkom.v5i1.78

**[18]** Shabalin, A., & Nikolaychuk, O. (n.d.). Adaptation of the Educational Process Using a Rule-based System. *Irkutsk State University, Matrosov Institute for System Dynamics and Control Theory*.

**[19]** van der Waa, J. S., Nieuwburg, E. G. I., Cremers, A. H. M., & Neerincx, M. (2021). Evaluating XAI: A comparison of rule-based and example-based explanations. *Artificial Intelligence*, 291, 103404.

**[20]** Zhai, W., & Zheng, H. (2025). Advanced CoCoSo Technique for Interval Neutrosophic MAGDM and Applications to Quality Evaluation in Higher Education Management. *International Journal of Decision Support System Technology*, 17(1). https://doi.org/10.4018/IJDSST.378431

**[21]** Zhang, Z., Deng, Q., He, W., & Yang, C. (2024). A New Method Based on Belief Rule Base with Balanced Accuracy and Interpretability for Student Achievement Prediction. *Mathematics*, 12(20), 3283. https://doi.org/10.3390/math12203283

**[22]** Zhou, W., Li, Y., Li, J., Zhang, T., Duan, X., Ma, N., & Wang, Y. (2025). A student academic performance prediction model based on the interval belief rule base. *Scientific Reports*.

**[23]** Yazdani, M., Zarate, P., Zavadskas, E. K., & Turskis, Z. (2019). A combined compromise solution (CoCoSo) method for multi-criteria decision-making problems. *Management Decision*, 57(9), 2501-2519