

## DAFTAR PUSTAKA

- Ababneh, I., Al-qdah, M., & Almutairi, A. (2023). Comparison of Academic Results during Conventional and Online Modes of Learning: A Case Study of Two Groups of Saudi University Students. *Sustainability* (Switzerland), 15(7). <https://doi.org/10.3390/su15075799>
- Aburub, F., & Alnawas, I. (2019). A new integrated model to explore factors that influence adoption of mobile learning in higher education: An empirical investigation. *Education and Information Technologies*, 24(3), 2145–2158. <https://doi.org/10.1007/s10639-019-09862-x>
- Adenle, Y. A., Chan, E. H. W., Sun, Y., & Chau, C. K. (2020). Exploring the coverage of environmental-dimension indicators in existing campus sustainability appraisal tools. *Environmental and Sustainability Indicators*, 8(June), 100057–100068. <https://doi.org/10.1016/j.indic.2020.100057>
- Alhabeeb, A., & Rowley, J. (2018). E-learning critical success factors: Comparing perspectives from academic staff and students. *Computers & Education*, 127, 1–12.
- Alhaj, M., & Sharah, A. (2020). Model-Driven framework for evaluating learning outcomes process. *Journal of Computer Science*, 16(7), 966–982. <https://doi.org/10.3844/JCSSP.2020.966.982>
- Almaiah, M. A., & Alyoussef, I. Y. (2019). Analysis of the effect of course design, course content support, course assessment and instructor characteristics on the actual use of E-learning system. *Ieee Access*, 7, 171907–171922.
- Alhothali, A., Albsisi, M., Assalahi, H., & Aldosemani, T. (2022). Predicting Student Outcomes in Online Courses Using Machine Learning Techniques: A Review. *Sustainability* (Switzerland), 14(10), 1–23. <https://doi.org/10.3390/su14106199>
- Alhunibat, A. (2015). Determining the factors influencing students' intention to use m-learning in Jordan higher education. *Computers in Human Behavior*, 52, 65–71. <https://doi.org/10.1016/j.chb.2015.05.046>
- Anggrawan, A., Hairani, H., & Satria, C. (2023). Improving SVM Classification Performance on Unbalanced Student Graduation Time Data Using SMOTE. *International Journal of Information and Education Technology*, 13(2), 289–295. <https://doi.org/10.18178/ijiet.2023.13.2.1806>
- Arikunto, S. (2014). *Evaluasi Program Pendidikan: Pedoman Teoretis Praktis Bagi Mahasiswa dan Praktisi Pendidikan* (2nd ed.). Bumi Aksara.
- Arifin, M., Widowati, W., Farikhin, F., & Gudnanto, G. (2023). A Regression Model and a Combination of Academic and Non-Academic Features to Predict Student Academic Performance. *TEM Journal*, 12(2), 855–864. <https://doi.org/10.18421/TEM122-31>
- Asio, J. M. R., Leva, E. F., Lucero, L. C., & Cabrera, W. C. (2022). Education Management Information System (EMIS) and Its Implications to Educational Policy: A Mini-Review. *International Journal of Multidisciplinary: Applied Business and Education Research*, 3(8), 1389–1398. <https://doi.org/10.11594/ijmaber.03.08.01>

- Ayman, E., Aziz, D., Abdelhak, A., & Abdelfatteh, H. (2024). AI-based learning style detection in adaptive learning systems: a systematic literature review. *Journal of Computers in Education*, 11(4), 1–39. <https://doi.org/10.1016/j.caeai.2021.100017>
- Bao, T., Liu, Y., Yang, Z., Wu, S., & Yan, Z. (2024). Evaluating sustainable service quality in higher education from a multi-stakeholder perspective: An integrated fuzzy group decision-making method. *Socio-Economic Planning Sciences*, 92, 101849. <https://doi.org/https://doi.org/10.1016/j.seps.2024.101849>
- Barkhatova, D. A., Khegay, L. B., & Pak, N. I. (2022). Pedagogical design of “inverted” learning resources for home study. *Perspektivy Nauki i Obrazovania*, 60(6), 244–262. <https://doi.org/10.32744/pse.2022.6.14>
- Bigatel, P. M., & Edel-Malizia, S. (2018). Using the “Indicators of Engaged Learning Online” Framework to Evaluate Online Course Quality. *TechTrends*, 62(1), 58–70. <https://doi.org/10.1007/s11528-017-0239-4>
- Bessadok, A., & Hersi, M. (2025). A structural equation model analysis of English for specific purposes students’ attitudes regarding computer-assisted language learning: UTAUT2 model. *Library Hi Tech*, 43(1), 36–55.
- BlueJurnes, W., & Gurdner, D. L. (1995). Learning styles: Implications for distance learning. In *New Direct Adult Continuing Educ* (Vol. 67, pp. 19–31). <https://www.learntechlib.org/p/79514/>
- Breiter, A., & Light, D. (2006). Data for school improvement: Factors for designing effective information systems to support decision-making in schools. *Educational Technology and Society*, 9(3), 206–217. <https://www.jstor.org/stable/jeductechsoci.9.3.206>
- Caley, L., Williams, S. J., Spernaes, I., Thomas, D., Behrens, D., & Willson, A. (2021). Frameworks for evaluating education programmes and work-related learning: a scoping review. *Journal of Workplace Learning*, 33(6), 486–501. <https://doi.org/10.1108/JWL-09-2020-0157>
- Changzhi, S., Shijie, H., Banghui, S., & Shiwei, C. (2025). Personalized Learning Path Planning for Higher Education Based on Deep Generative Models and Quantum Machine Learning a Multimodal Learning Analysis Method Integrating Transformer Adversarial Training and Quantum. *Discover Artificial Intelligence*, 5(29), 19. <https://doi.org/10.1007/s44163-025-00252-6>
- Chen, Y., & Jin, K. (2024). Educational Performance Prediction with Random Forest and Innovative Optimizers: A Data Mining Approach. *International Journal of Advanced Computer Science and Applications*, 15(3), 69–78. <https://doi.org/10.14569/IJACSA.2024.0150308>
- Chen, X., Xie, H., Tao, X., Wang, F. L., & Cao, J. (2024). Leveraging text mining and analytic hierarchy process for the automatic evaluation of online courses. *International Journal of Machine Learning and Cybernetics*, 15(11), 4973–4998. <https://doi.org/10.1007/s13042-024-02203-6>
- Coelho, O. B., & Silveira, I. (2017). Deep learning applied to learning analytics and educational data mining: A systematic literature review. *Brazilian Symposium on Computers in Education (Simpósio Brasileiro de Informática Na Educação-SBIE)*, 28(1), 143. <http://dx.doi.org/10.5753/cbie.sbie.2017.143>

- Crittenden, W. F., Biel, I. K., & Lovely, W. A. (2019). Embracing Digitalization: Student Learning and New Technologies. *Journal of Marketing Education*, 41(1), 5–14. <https://doi.org/10.1177/0273475318820895>
- Darla, D. (2023). Learning to Live Together as Key to Our Future. UNESCO. <https://www.unesco.org/en/articles/learning-live-together-key-our-future>
- De Diego, I. M., Redondo, A. R., Fernández, R. R., Navarro, J., & Moguerza, J. M. (2022). General Performance Score for classification problems. *Applied Intelligence*, 52(10), 12049–12063. <https://doi.org/10.1007/s10489-021-03041-7>
- De Porter, B. (1992). *Quantum Teaching - Unleashing The Genius In You* (1st ed.). Dell Publishing - Newyork.
- Didham, R. J., & Ofei-Manu, P. (2020). Facilitating collaborative partnerships in education policy research: A case of multi-stakeholder, co-investigation for monitoring and evaluation of education for sustainable development. *Sustainability (Switzerland)*, 12(7). <https://doi.org/10.3390/su12072787>
- Dizon, A. G. (2023). Historical development of CIPP as a curriculum evaluation model. *History of Education*, 52(1), 109–128. <https://doi.org/10.1080/0046760X.2022.2098390>
- Dunlosky, J., Rawson, K. A., Marsh, E. J., Nathan, M. J., & Willingham, D. T. (2013). Improving students' learning with effective learning techniques: Promising directions from cognitive and educational psychology. *Psychological Science in the Public Interest*, 14(1), 4–58. <https://doi.org/10.1177/1529100612453266>
- Eisner, E. W. (2000). *Benjamin Bloom: 1913--99*. Springer.
- Ellis, R. A. (2022). Strategic directions in the what and how of learning and teaching innovation a fifty-year synopsis. *Higher Education*, 84(6), 1267–1281. <https://doi.org/10.1007/s10734-022-00945-2>
- Ellyzabeth, S., & Heri, F. (2022). *Digitalisasi Sebagai Pengembangan Model Pembelajaran* (1st ed.). Cendikia Mulia Mandiri.
- Ertmer, P. A., & Newby, T. J. (2013). Behaviorism, cognitivism, constructivism: Comparing critical features from an instructional design perspective. *Performance Improvement Quarterly*, 26(2), 43–71. <https://doi.org/10.1002/piq.21143>
- Ezzaim, A., Dahbi, A., Aqqal, A., & Haidine, A. (2024). AI-based learning style detection in adaptive learning systems: a systematic literature review. *Journal of Computers in Education*, 11(4), 1–39. <https://doi.org/10.1007/s40692-024-00328-9>
- Faisal, R. A. (2019). Influence of Personality and Learning Styles in English Language Achievement. *Open Journal of Social Sciences*, 07(08), 304–324. <https://doi.org/10.4236/jss.2019.78022>
- Ferreira, F. R. T., do Couto, L. M., de Melo Baptista Domingues, G., & Saporetto, C. M. (2025). Development of a framework using deep learning for the identification and classification of engagement levels in distance learning students. *Social Network Analysis and Mining*, 15(1). <https://doi.org/10.1007/s13278-025-01408-z>
- Ferrer, L. (2023). Analysis and Comparison of Classification Metrics. *CORR Journal*, 1–36. <https://doi.org/10.48550/arXiv.2209.05355>
- Fisher, R., Tran, Q., & Verezub, E. (2024). Teaching English as a Foreign Language in Higher Education using flipped learning/flipped classrooms: a literature review. *Innovation in*

- Language Learning and Teaching, 18(4), 332–351. <https://doi.org/10.1080/17501229.2024.2302984>
- Gadi, N., Saleh, S., Johnson, J.-A., & Trinidad, A. (2022). The impact of the COVID-19 pandemic on the lifestyle and behaviours, mental health and education of students studying healthcare-related courses at a British university. *BMC Medical Education*, 22(1). <https://doi.org/10.1186/s12909-022-03179-z>
- Garrison, D., Anderson, T., & Archer, W. (2000). Critical Inquiry in a text-based environment. *The Internet and Higher Education*, 2(2), 87–105. [https://doi.org/10.1016/S1096-7516\(00\)00016-6](https://doi.org/10.1016/S1096-7516(00)00016-6)
- Garrison, D. R., & Vaughan, N. D. (2008). *Blended Learning in Higher Education: Framework, Principles, and Guidelines*. San Francisco, CA: Jossey-Bass.
- Gil-Flores, J., Rodríguez-Santero, J., & Torres-Gordillo, J. J. (2017). Factors that explain the use of ICT in secondary-education classrooms: The role of teacher characteristics and school infrastructure. *Computers in Human Behavior*, 68, 441–449. <https://doi.org/10.1016/j.chb.2016.11.057>
- Granić, A. (2022). Technology acceptance and adoption in education. In *Handbook of open, distance and digital education* (pp. 1–15). Springer.
- Gkrimpizi, T., Peristeras, V., & Magnisalis, I. (2023). Classification of Barriers to Digital Transformation in Higher Education Institutions: Systematic Literature Review. *Education Sciences*, 13(7). <https://doi.org/10.3390/educsci13070746>
- Haleem, A., Javaid, M., Qadri, M. A., & Suman, R. (2022). Understanding the role of digital technologies in education: A review. *Sustainable Operations and Computers*, 3(May), 275–285. <https://doi.org/10.1016/j.susoc.2022.05.004>
- Hamalik, O. (2017). *Proses Belajar Mengajar* (19th ed.). Bumi Aksara.
- Hasibuan, Z., & Selviandro, N. (2013). Cloud Based e-learning: a proposed model and benefits by using e-learning based on cloud computing for educational institution Cloud Based E-Learning: A Proposed Model and Benefits. *Cloud-Based E-Learning*, March 2013, 192–201.
- Hidayat, A., Adi, K., & Surarso, B. (2023). Prediction of Various Computational Parameters using Naive Bayes and Felder and Silverman Methods. *Original Research Paper International Journal of Intelligent Systems and Applications in Engineering IJISAE*, 2023(4s), 434–443. <https://www.ijisae.org/index.php/IJISAE/article/view/2692>
- Huang, H., Zinnen, M., Liu, S., Maier, A., & Christlein, V. (2024). Scene Classification on Fine Arts with Style Transfer. *Proceedings of the 6th Workshop on the AnalySis, Understanding and ProMotion of HeritAge Contents*, 18–27. <https://doi.org/10.1145/3689094.3689468>
- Iglesias-Pradas, S., Hernández-García, Á., Chaparro-Peláez, J., & Prieto, J. L. (2021). Emergency remote teaching and students' academic performance in higher education during the COVID-19 pandemic: A case study. *Computers in Human Behavior*, 119(1), 106713–106731. <https://doi.org/10.1016/j.chb.2021.106713>
- Jung, I. The dimensions of e-learning quality: from the learner's perspective. *Education Tech Research Dev* 59, 445–464 (2011). <https://doi.org/10.1007/s11423-010-9171-4>
- Joyce, B., & Calhoun, E. (2024). *Models of teaching* (10th ed.). Taylor Francis.

- Karimi Moonaghi, H., & others. (2023). Common Evaluation Models in Nursing Education Program: A Narrative Review. *Journal of Nursing Education*, 12(2), 1–14. <http://dx.doi.org/10.22034/JNE.12.2.1>
- Kisworo, M. W. (2016). Implementing open source platform for education quality enhancement in primary education: Indonesia experience. *Turkish Online Journal of Educational Technology*, 2016, 295–301.
- Kroop, S., Mikroyannidis, A., & Wolpers, M. (2015). Responsive open learning environments: Outcomes of research from the role project. In *Responsive Open Learning Environments: Outcomes of Research from the Role Project*. Springer. <https://doi.org/10.1007/978-3-319-02399-1>
- Langseth, I., Jacobsen, D. Y., & Haugsbakken, H. (2023). The Role of Support Units in Digital Transformation: How Institutional Entrepreneurs Build Capacity for Online Learning in Higher Education (*Technology, Knowledge and Learning*, (2023), 28, 4, (1745-1782), 10.1007/s10758-022-09620-y). *Technology, Knowledge and Learning*, 28(4), 1783–1785. <https://doi.org/10.1007/s10758-022-09622-w>
- Lee, J. C., Quadlin, N., & Ambriz, D. (2023). Shadow education, pandemic style: Social class, race, and supplemental education during Covid-19. In *Research in Social Stratification and Mobility* (Vol. 83). Emerald Publishing. <https://doi.org/10.1016/j.rssm.2022.100755>
- Lee, W., & Reeve, J. (2012). Teachers' estimates of their students' motivation and engagement: Being in synch with students. *Educational Psychology*, 32(6), 727–747. <http://dx.doi.org/10.1080/01443410.2012.732385>
- Li, Y., Liang, Z., Li, Z., Yu, Y., Yang, Q., & Li, X. (2025). Effectiveness of Gagné's 9 Events of Instruction in health professions education: a systematic review and meta-analysis. *Frontiers in Medicine*, 12 (April), 1–12. <https://doi.org/10.3389/fmed.2025.1522830>
- Lowry, G. R., & Turner, R. L. (2007). *Information Systems and Technology Education: From the University to the Workplace*. Idea Group Inc (IGI). <https://doi.org/http://dx.doi.org/10.4018/978-1-59904-114-8>
- Ma, C. (2024). Improving the Prediction of Student Performance by Integrating a Random Forest Classifier with Meta-Heuristic Optimization Algorithms. *International Journal of Advanced Computer Science and Applications*, 15(6), 1032–1044. <https://doi.org/10.14569/IJACSA.2024.01506106>
- Malik, M. A., Akkaya, B., & Harper, D. S. (2022). Comparative Research on Educational Policy Responses to the COVID-19 Pandemic: Eastern vs. Western Perspectives. In *Comparative Research on Educational Policy Responses to the COVID-19 Pandemic: Eastern vs. Western Perspectives*. IGI Global. <https://doi.org/10.4018/978-1-6684-3600-4>
- Marcia L, T. (2022). 100 Brain-Friendly Lessons for Unforgettable Teaching and Learning (9-12). In Jessica Allan (Ed.), *Sage Academic Books*. SAGE Publications Inc. <https://doi.org/10.4135/9781071872826>
- Mayer, R. E. (2024). The Past, Present, and Future of the Cognitive Theory of Multimedia Learning. *Educational Psychology Review*, 36(1), 1–25. <https://doi.org/10.1007/s10648-023-09842-1>
- Marshall, S. (2012). Improving the quality of e-learning: lessons from the eMM. *Journal of Computer Assisted Learning*, 28(1), 65–78.

- Maybee, C. (2018). Higher Education Teachers' Views of Information Literacy. In *IMPACT Learning*. Elsevier Ltd. <https://doi.org/10.1016/b978-0-08-102077-7.00006-9>
- Mcleod, R., & Schell, J. G. P. (2007). Management Information System Tenth Edition. In Pearson (Ed.), *Advances in Cancer Research* (Vol. 104, Issue 1). Dorling Kindersley.
- Min-allah, N., & Alrashed, S. (2020). Smart campus - A sketch. *Sustainable Cities and Society* 59, 59(April). <https://doi.org/10.1016/j.scs.2020.102231>
- Mishra, P., & Koehler, M. J. (2006). Technological Pedagogical Content Knowledge: A Framework for Teacher Knowledge. *Teachers College Record*, 108(6), 1017–1054. <https://doi.org/10.1111/j.1467-9620.2006.00684.x>
- Mitchell, T. M. (1997). Does machine learning really work? *AI Magazine*, 18(3), 11.
- Miyaji, I. (2015). Characteristic of Three Kinds of Blended Classes Categorized Using Awareness and Activities. *American Journal of Educational Research*. 3(12), 1536-1547. <http://doi.org/10.12691/education-3-12-9>
- Nachouki, M., & Naaj, M. A. (2022). Predicting Student Performance to Improve Academic Advising Using the Random Forest Algorithm. *International Journal of Distance Education Technologies*, 20(1). <https://doi.org/10.4018/IJDET.296702>
- Newell, S., Edelman, L. F., Staples, D. S., Webster, J., & Henfridsson, O. (2008). *Information Systems for Education* (2nd ed.). Global Text Project.
- O'brien, J., & Marakas, G. (2009). *Introduction to information systems*. McGraw-Hill, Inc.
- Oliveira, E. A., de Barba, P., & Corrin, L. (2021). Enabling Adaptive, Personalised and Context-aware Interaction in a Smart Learning Environment: Piloting the Icollab System. *Australasian Journal of Educational Technology*, 37(2), 1–23. <https://doi.org/10.14742/AJET.6792>
- Onyema, E. M., Almuzaini, K. K., Onu, F. U., Verma, D., Gregory, U. S., Puttaramaiah, M., & Afriyie, R. K. (2022). Prospects and Challenges of Using Machine Learning for Academic Forecasting. *Computational Intelligence and Neuroscience*, 2022. <https://doi.org/10.1155/2022/5624475>
- Oussous, A., Menyani, I., Srifi, M., Lahcen, A. A., Kheraz, S., & Benjelloun, F. Z. (2023). An Evaluation of Open Source Adaptive Learning Solutions. *Information (Switzerland)*, 14(2), 1–21. <https://doi.org/10.3390/info14020057>
- Outhwaite, L. A., Gulliford, A., & Pitchford, N. J. (2020). A new methodological approach for evaluating the impact of educational intervention implementation on learning outcomes. *International Journal of Research and Method in Education*, 43(3), 225–242. <https://doi.org/10.1080/1743727X.2019.1657081>
- Pashler, H., Mcdaniel, M., Rohrer, D., & Bjork, R. (2009). Concepts and Evidence. *Psychological Science*, 9(3), 105–119. <https://doi.org/j.1539-6053.2009.01038.x>
- Power, D. M. W. (2015). Visualization of Tradeoff in Evaluation: from Precision-Recall & PN to LIFT, ROC & BIRD. *CORR Journal*, 15(5), 28. <https://doi.org/10.48550/arXiv.1505.00401>
- Rahmah, A., Santoso, H. B., & Hasibuan, Z. A. (2022). Critical Review of Technology-Enhanced Learning using Automatic Content Analysis Case Study of TEL Maturity Assessment Formulation. *International Journal of Advanced Computer Science and Applications*, 13(1), 385–394. <https://doi.org/10.14569/IJACSA.2022.0130148>

- Rainer, R. K., Prince, B., Sanchez-Rodriguez, C., Spletstoesser-Hogeterp, I., & Ebrahimi, S. (2020). *Introduction to information systems*. John Wiley & Sons, Ltd.
- Rucks, L., Wingate, L., López, M., Wilson Becho, L., FitzGerald, M., & Lis Dean, K. (2024). Leveraging the Kirkpatrick four-level model to evaluate evaluation capacity building work. *New Directions for Evaluation*.
- Saba, T. (2012). Implications of E-learning systems and self-efficiency on students outcomes: a model approach. *Human-Centric Computing and Information Sciences*, 2(1), 1–11. <https://doi.org/10.1186/2192-1962-2-6>
- Sagala, S. (2017). *Konsep dan makna pembelajaran: Untuk membantu memecahkan problematika belajar dan mengajar* (13th ed.). CV Alfabeta.
- Sam, C., Naicker, N., & Rajkoomar, M. (2020). Meta-analysis of artificial intelligence works in ubiquitous learning environments and technologies. *International Journal of Advanced Computer Science and Applications*, 11(9), 603 – 613. <https://doi.org/10.14569/IJACSA.2020.0110971>
- Santally, M. I., Rajabalee, Y. B., Sungkur, R. K., Maudarbocus, M. I., & Greller, W. (2020). Enabling continuous improvement in online teaching and learning through e-learning capability and maturity assessment. *Business Process Management Journal*, 26(6), 1687–1707.
- Sapir, A., & Mizrahi-Shtelman, R. (2024). Becoming a homeroom teacher: spatial and temporal dimensions of identity formation. *Research Papers in Education*, 40(3), 442–466. <https://doi.org/10.1080/02671522.2024.2406195>
- Scriven, M. (2007). Evaluation Research. In *The Sage Handbook of Social Science Methodology* (pp. 523–533). Sage Publications.
- Selim, H. M. (2007). Critical success factors for e-learning acceptance: Confirmatory factor models. *Computers & Education*, 49(2), 396–413.
- Setyosari, P. (2020). *Desain Pembelajaran*. Bumi Aksara.
- Shao, J., Gao, Q., & Wang, H. (2022). Online Learning Behavior Feature Mining Method Based on Decision Tree. *Journal of Cases on Information Technology*, 24(5). <https://doi.org/10.4018/JCIT.295244>
- Sharfina, Z., & Santoso, H. B. (2016). An Indonesian adaptation of the System Usability Scale (SUS). *2016 International Conference on Advanced Computer Science and Information Systems (ICACISIS)*, 145–148. <https://doi.org/10.1109/ICACISIS.2016.7872776>
- Shodiq, S. (2021). Peran Sistem Informasi dan Teknologi Informasi terhadap Proses Pembelajaran di Masa Pandemi Covid-19. *Jurnal Edukasi*, 8(1), 17. <https://doi.org/10.19184/jukasi.v8i1.23968>
- Siemens, G., Onderwijsdagen, S., Age, D., Design, E., Downes, S., & Verhagen, P. (2019). Connectivism: a new learning theory? *Journal of Instructional Technology and Distance Learning*, 2(1), 1–5. <http://dx.doi.org/10.15405/epsbs.2017.05.02.41>
- Spatioti, A. G., Kazanidis, I., & Pange, J. (2022). A comparative study of the ADDIE instructional design model in distance education. *Information*, 13(9), 402. <https://doi.org/10.3390/info13090402>
- Sugiyono. (2013). *Metodologi Penelitian Kuantitatif, Kualitatif dan R&D*. Alfabeta.
- Sun, Z., Yuan, Y., & Chen, A. (2024). Predicting academic achievement from the collaborative influences of executive function, physical fitness, and demographic

- factors among primary school students in China: ensemble learning methods. *BMC Public Health*, 24(1), 1–13. <https://doi.org/10.1186/s12889-024-17769-7>
- Sweller, J. (2011). Cognitive Load Theory. *Psychology of Learning and Motivation - Advances in Research and Theory*, 55, 37–76. <https://doi.org/10.1016/B978-0-12-387691-1.00002-8>
- Taggart, K., Kennedy, M., O'Connor, S. K., & Van Gilder, D. (2024). Using the Kirkpatrick model to evaluate a sepsis escape room for advanced pharmacy learners. *Currents in Pharmacy Teaching and Learning*, 16(5), 352–362. <https://doi.org/10.1016/j.cptl.2024.02.004>
- Thomas, B., & Chandra, J. (2020). Random forest application on cognitive level classification of E-learning content. *International Journal of Electrical and Computer Engineering*, 10(4), 4372–4380. <https://doi.org/10.11591/ijece.v10i4.pp4372-4380>
- Tu, J.-C., Zhang, X., & Zhang, X.-Y. (2021). Basic courses of design major based on the ADDIE model: Shed light on response to social trends and needs. *Sustainability*, 13(8), 4414. <https://doi.org/10.3390/su13084414>
- Urval, R. P., Kamath, A., Ullal, S., Shenoy, A. K., Shenoy, N., & Udupa, L. A. (2014). Assessment of learning styles of undergraduate medical students using the VARK questionnaire and the influence of sex and academic performance. *Advances in Physiology Education*, 38(3), 216–220. <https://doi.org/10.1152/advan.00024.2014>
- Valencia Usme, Y. P., Normann, M., Sapsai, I., Abke, J., Madsen, A., & Weidl, G. (2023). Learning Style Classification by Using Bayesian Networks Based on the Index of Learning Style. *Proceedings of the 5th European Conference on Software Engineering Education*, 73–82. <https://doi.org/10.1145/3593663.3593685>
- Vom Brocke, J., Hevner, A., & Maedche, A. (2020). Introduction to design science research. *Design Science Research. Cases*, 1–13. [http://dx.doi.org/10.1007/978-1-4419-5653-8\\_1](http://dx.doi.org/10.1007/978-1-4419-5653-8_1)
- Wang, R., & Hsu, S. L. (2010). Notice of Retraction: Assessment on effectiveness of e-learning in uncertainty. *ICAMS 2010 - Proceedings of 2010 IEEE International Conference on Advanced Management Science*, 1(August 2010), 65–71. <https://doi.org/10.1109/ICAMS.2010.5553029>
- Wiratman, A. B., & Wella. (2024). Personalized Learning Models Using Decision Tree and Random Forest Algorithms in Telecommunication Company. *International Journal on Informatics Visualization*, 8(1), 318–325. <https://doi.org/10.62527/joiv.8.1.1905>
- Yang, J., Pan, H., Zhou, W., & Huang, R. (2018). Evaluation of smart classroom from the perspective of infusing technology into pedagogy. *Smart Learning Environanta*, 5(1), 1–11. <https://doi.org/10.1186/s40561-018-0070-1>
- Yaw Obeng, A., & Coleman, A. (2020). Evaluating the effects and outcome of technological innovation on a web-based e-learning system. *Cogent Education*, 7(1). <https://doi.org/10.1080/2331186X.2020.1836729>
- Yüksel, D. K. (2023). Evaluation of Life Studies Curricullum by Stufflebeam's Context, Input, Process and Product Evaluation Model. *International Journal of Education, Technology and Science*, 3(3), 974–1000.
- Zawacki-Richter, O., & Jung, I. (2023). Handbook of Open, Distance and Digital Education. In *Handbook of Open, Distance and Digital Education*. Springer. <https://doi.org/10.1007/978-981-19-2080-6>