

## BIBLIOGRAPHY

- [1] A. Oginni, E. Mogaji, and P. N. Nguyen, *Re-imagining Educational Futures in Developing Countries: Lessons from Global Health Crises*, no. June. 2022.
- [2] H. Xu, J. Qu, and Y. Ling, "Prediction and Visualization of Academic Procrastination in Online Learning," pp. 133–139, 2021, <https://doi.org/10.1145/3474995.3475017>.
- [3] Y.-T. Ling, J.-H. Qu, X. Ma, and H.-M. Xu, "Research on Learner Academic Procrastination Based on Multi-view Clustering," pp. 106–113, 2021, <https://doi.org/10.1145/3474995.3475014>.
- [4] I. Roll and P. H. Winne, "Understanding, evaluating, and supporting self-regulated learning using learning analytics," *J. Learn. Anal.*, vol. 2, no. 1, pp. 7–12, 2015, <https://doi.org/10.18608/jla.2015.21.2>.
- [5] F. Feng, M. Tang, and W. Lei, "Study of Procrastination in Higher Vocational Education Based on Online Learning Data," *ACM Int. Conf. Proceeding Ser.*, pp. 82–87, 2022, <https://doi.org/10.1145/3568739.3568755>.
- [6] M. De Paola, F. Gioia, and V. Scoppa, "Online teaching, procrastination and student achievement," *Econ. Educ. Rev.*, vol. 94, no. February, p. 102378, 2023, <https://doi.org/10.1016/j.econedurev.2023.102378>.
- [7] C. Imhof, I. S. Comsa, M. Hlosta, B. Parsaeifard, I. Moser, and P. Bergamin, "Prediction of Dilatory Behavior in eLearning: A Comparison of Multiple Machine Learning Models," *IEEE Trans. Learn. Technol.*, vol. 16, no. 5, pp. 648–663, 2023, <https://doi.org/10.1109/TLT.2022.3221495>.
- [8] Q. Li, R. Baker, and M. Warschauer, "Using clickstream data to measure, understand, and support self-regulated learning in online courses," *Internet High. Educ.*, vol. 45, no. January, p. 100727, 2020, <https://doi.org/10.1016/j.iheduc.2020.100727>.
- [9] R. Baker *et al.*, "The benefits and caveats of using clickstream data to understand student self-regulatory behaviors: opening the black box of learning processes," *Int. J. Educ. Technol. High. Educ.*, vol. 17, no. 1, pp. 1–24, 2020, <https://doi.org/10.1186/s41239-020-00187-1>.
- [10] F. Rodriguez, H. R. Lee, T. Rutherford, C. Fischer, E. Potma, and M. Warschauer, "Using clickstream data mining techniques to understand and support first-generation college students in an online chemistry course," *ACM Int. Conf. Proceeding Ser.*, pp. 313–322, 2021, <https://doi.org/10.1145/3448139.3448169>.
- [11] N. S. Raj and V. G. Renumol, "An Approach for Early Prediction of Academic Procrastination in e-Learning Environment," *Int. J. Inf. Educ. Technol.*, vol. 13, no. 1, pp. 73–81, 2023, <https://doi.org/10.18178/ijiet.2023.13.1.1782>.
- [12] B. Chen, P. C. Tai, R. Harrison, and Y. Pan, "Novel hybrid hierarchical-K-means clustering method (H-K-means) for microarray analysis," *2005 IEEE Comput. Syst. Bioinforma. Conf. Work. Poster Abstr.*, pp. 105–108, 2005, <https://doi.org/10.1109/CSBW.2005.98>.
- [13] A. Bansal, M. Sharma, and S. Goel, "Improved K-mean Clustering Algorithm for Prediction Analysis using Classification Technique in Data Mining," *Int. J. Comput. Appl.*, vol. 157, no. 6, pp. 35–40, 2017, <https://doi.org/10.5120/ijca2017912719>.
- [14] B. U. Özer, A. Demir, and J. R. Ferrari, "Exploring academic procrastination among turkish students: Possible gender differences in prevalence and reasons," *J. Soc. Psychol.*, vol. 149, no. 2, pp. 241–257, 2009, <https://doi.org/10.3200/SOCP.149.2.241-257>.
- [15] Y. Fentaw, B. T. Moges, and S. M. Ismail, "Academic Procrastination Behavior among Public University Students," *Educ. Res. Int.*, vol. 2022, 2022, <https://doi.org/10.1155/2022/1277866>.
- [16] P. Steel, "The nature of procrastination: A meta-analytic and theoretical review of quintessential self-regulatory failure," *Psychol. Bull.*, vol. 133, no. 1, pp. 65–94, 2007, <https://doi.org/10.1037/0033-2909.133.1.65>.
- [17] S. He, "A Multivariate Investigation into Academic Procrastination of University Students," *Open J. Soc. Sci.*, vol. 05, no. 10, pp. 12–24, 2017, <https://doi.org/10.4236/jss.2017.510002>.
- [18] W. Doherty, "An analysis of multiple factors affecting retention in Web-based community college courses," *Internet High. Educ.*, vol. 9, no. 4, pp. 245–255, 2006, <https://doi.org/10.1016/j.iheduc.2006.08.004>.
- [19] A. Gareau, M. Chamandy, K. Kljajic, and P. Gaudreau, "The detrimental effect of academic procrastination on subsequent grades: the mediating role of coping over and above past achievement and working memory capacity," *Anxiety, Stress Coping*, vol. 32, no. 2, pp. 141–154, 2019, <https://doi.org/10.1080/10615806.2018.1543763>.
- [20] M. Goroshit, "Academic procrastination and academic performance: An initial basis for intervention," *J. Prev. Interv. Community*, vol. 46, no. 2, pp. 131–142, 2018, <https://doi.org/10.1080/10852352.2016.1198157>.
- [21] M. Goroshit and M. Hen, "Academic procrastination and academic performance: Do learning disabilities matter?," *Curr. Psychol.*, vol. 40, no. 5, pp. 2490–2498, 2021, <https://doi.org/10.1007/s12144-019-00183-3>.
- [22] M. M. Memon, M. A. Hashmani, S. M. Jameel, S. Junejo, and K. Raza, "Analysis of Student Procrastinatory Behavior in Virtual

- Learning Environments Using Machine Learning,” *J. Hunan Univ. (Natural Sci.)*, vol. 47, no. 10, pp. 139–152, 2020, [Online]. Available: <http://jonuns.com/index.php/journal/article/view/459/456>.
- [23] S. E. Y. Nayini, S. Geravand, and A. Maroosi, “A novel threshold-based clustering method to solve K-means weaknesses,” *2017 Int. Conf. Energy, Commun. Data Anal. Soft Comput. ICECDS 2017*, pp. 47–52, 2018, <https://doi.org/10.1109/ICECDS.2017.8389496>.
- [24] S. J. Kim, W. Y. Jo, and T. Shon, “APAD: Autoencoder-based Payload Anomaly Detection for industrial IoT,” *Appl. Soft Comput. J.*, vol. 88, p. 106017, 2020, <https://doi.org/10.1016/j.asoc.2019.106017>.
- [25] F. Khozeimeh *et al.*, “Combining a convolutional neural network with autoencoders to predict the survival chance of COVID-19 patients,” *Sci. Rep.*, vol. 11, no. 1, pp. 1–18, 2021, <https://doi.org/10.1038/s41598-021-93543-8>.
- [26] W. Wei, H. Wu, and H. Ma, “An autoencoder and LSTM-based traffic flow prediction method,” *Sensors (Switzerland)*, vol. 19, no. 13, pp. 1–16, 2019, <https://doi.org/10.3390/s19132946>.
- [27] M. Iatrou, C. Karydas, X. Tseni, and S. Mourelatos, “Representation Learning with a Variational Autoencoder for Predicting Nitrogen Requirement in Rice,” *Remote Sens.*, vol. 14, no. 23, 2022, <https://doi.org/10.3390/rs14235978>.
- [28] D. Xu, F. Zhu, Q. Liu, and P. Zhao, “Improving exploration efficiency of deep reinforcement learning through samples produced by generative model,” *Expert Syst. Appl.*, vol. 185, Dec. 2021, <https://doi.org/10.1016/j.eswa.2021.115680>.
- [29] Y. Lin, H. Chen, W. Xia, F. Lin, Z. Wang, and Y. Liu, “A Comprehensive Survey on Deep Learning Techniques in Educational Data Mining,” pp. 1–21, 2023, [Online]. Available: <http://arxiv.org/abs/2309.04761>.
- [30] Y. Yang, D. Hooshyar, M. Pedaste, M. Wang, Y. M. Huang, and H. Lim, “Prediction of students’ procrastination behaviour through their submission behavioural pattern in online learning,” *J. Ambient Intell. Humaniz. Comput.*, no. 0123456789, p. 12652, 2020, <https://doi.org/10.1007/s12652-020-02041-8>.
- [31] R. Fang and R. White, “Distance Learning Students’ Perspectives of Academic Procrastination: A Qualitative Investigation,” *J. Contin. High. Educ.*, vol. 0, no. 0, pp. 1–17, 2024, <https://doi.org/10.1080/07377363.2024.2317614>.
- [32] B. U. Özer, “A Cross Sectional Study on Procrastination: Who Procrastinate More?,” *Int. Conf. Educ. Res. Innov.*, vol. 18, pp. 34–37, 2011.
- [33] C. Vizoso, C. Rodríguez, and O. Arias-Gundín, “Coping, academic engagement and performance in university students,” *High. Educ. Res. Dev.*, vol. 37, no. 7, pp. 1515–1529, 2018, <https://doi.org/10.1080/07294360.2018.1504006>.
- [34] Y. L. San, S. B. Roslan, and F. Sabouripour, “Relationship between self-regulated learning and academic procrastination,” *Am. J. Appl. Sci.*, vol. 13, no. 4, pp. 459–466, 2016, <https://doi.org/10.3844/ajassp.2016.459.466>.