

Research Publications

Journal Articles

- 1 Guruge, D. B., **Kadel**, R., Shailendra, S., & Sharma, A. (2025). Building academic integrity: Evaluating the effectiveness of a new framework to address and prevent contract cheating. *Societies*, 15(1).
[doi:10.3390/soc15010011](https://doi.org/10.3390/soc15010011)
- 2 Shailendra, S., **Kadel**, R., & Sharma, A. (2024). Framework for Adoption of Generative Artificial Intelligence (GenAI) in Education. *IEEE Transactions on Education*. [doi:10.1109/TE.2024.3432101](https://doi.org/10.1109/TE.2024.3432101)
- 3 Guruge, D. B., & **Kadel**, R. (2023). Towards an Holistic Framework to Mitigate and Detect Contract Cheating within an Academic Institute—A Proposal. *Education Sciences*, 13(2), 148.
[doi:https://doi.org/10.3390/educsci13020148](https://doi.org/10.3390/educsci13020148)
- 4 Shrestha, R., **Kadel**, R., & Mishra, B. K. (2023). A two-phase confirmatory factor analysis and structural equation modelling for customer-based brand equity framework in the smartphone industry. *Decision Analytics Journal*, 100306. [doi:https://doi.org/10.1016/j.dajour.2023.100306](https://doi.org/10.1016/j.dajour.2023.100306)
- 5 Kwan, P., Memon, T. D., Hashmi, S. S., Rhode, F., & **Kadel**, R. (2022). An Empirical Study of Student's Perception of and Key Factors Affecting Overall Satisfaction in an Intensive Block Mode and Flipped Classroom. *Education Sciences*, 12(8). [doi:10.3390/educsci12080535](https://doi.org/10.3390/educsci12080535)
- 6 Paudel, K., **Kadel**, R., & Guruge, D. B. (2022). Machine-Learning-Based Indoor Mobile Positioning Using Wireless Access Points with Dual SSIDs-An Experimental Study. *Journal of Sensor and Actuator Networks*, 11(3). [doi:10.3390/jsan11030042](https://doi.org/10.3390/jsan11030042)
- 7 Aziz, S., **Kadel**, R., Guruge, D. B., Paudel, K., & Karagiannidis, V. (2021). Mobile learning approaches and its impact on student's education—A survey. *International Journal of Information and Education Technology*, 11(9), 429–435. [doi:10.18178/ijiet.2021.11.9.1546](https://doi.org/10.18178/ijiet.2021.11.9.1546)
- 8 Guruge, D. B., **Kadel**, R., & Halder, S. J. (2021). The State of the Art in Methodologies of Course Recommender Systems—A Review of Recent Research. *Data*, 6(2). [doi:10.3390/data6020018](https://doi.org/10.3390/data6020018)
- 9 Islam, N., Rashid, M. M., Pasandideh, F., Ray, B., Moore, S., & **Kadel**, R. (2021). A Review of Applications and Communication Technologies for Internet of Things (IoT) and Unmanned Aerial Vehicle (UAV) Based Sustainable Smart Farming. *Sustainability*, 13(4). [doi:10.3390/su13041821](https://doi.org/10.3390/su13041821)
- 10 **Kadel**, R., Paudel, K., Guruge, D. B., & Halder, S. J. (2020). Opportunities and Challenges for Error Control Schemes for Wireless Sensor Networks: A Review. *Electronics*, 9(3).
[doi:10.3390/electronics9030504](https://doi.org/10.3390/electronics9030504)
- 11 **Kadel**, R., Islam, N., Ahmed, K., & Halder, S. J. (2019). Opportunities and Challenges for Error Correction Scheme for Wireless Body Area Network—A Survey. *Journal of Sensor and Actuator Networks*, 8(1). [doi:10.3390/jsan8010001](https://doi.org/10.3390/jsan8010001)

Book Chapter

- 1 **Kadel**, R., Paudel, K., Shrestha, R., & Shailendra, S. (2024). Digital Twin: Towards Future Smartness. (Chap. Accepted for publication). The Institute of Engineering and Technology.
- 2 Kwan, P., **Kadel**, R., Memon, T. D., & Hashmi, S. S. (2024). Intensifying Learner Engagement and Focus by a Block Mode Flipped Learning Pedagogy. (Chap. 2). Nova Science Publishers, Inc. Retrieved from
<https://doi.org/10.52305/BWLK7711>

Conference Proceedings

- 1 Islam, M. T., Shailendra, S., & **Kadel**, R. (Accepted for publication). Analysis of Energy Consumption and Efficiency in the Two-tier Network for LoRa and LR-FHSS IoT Sensor Communication. In 2024, *International Conference on Innovations in Science, Engineering and Technology (ICISSET)*.
- 2 Sharma, A., Shailendra, S., & **Kadel**, R. (Accepted for publication). Experiences with Content Development and Assessment Design in the Era of GenAI. In 2025, *International Conference on Computer Science, Engineering, and Education (CSEE)*.
- 3 **Kadel**, R., Mishra, B. K., Shailendra, S., Abid, S., Rani, M., & Mahato, S. P. (2024). Crafting tomorrow's evaluations: Assessment design strategies in the era of generative ai. In 2024 *International Symposium on Educational Technology (ISET)* (pp. 13–17).  doi:10.1109/ISET61814.2024.00012
- 4 **Kadel**, R., & Lechner, G. (2023). Full Diversity Low-Density Parity-Check (LDPC) Codes for Block-Fading Channel. In 2023 *International Conference on Electronics, Information, and Communication (ICEIC)* (pp. 1–5). IEEE.  doi:10.1109/ICEIC57457.2023.10049965
- 5 B. Guruge, D., Paudel, K., **Kadel**, R., Aziz, S., & Karagiannidis, V. (2021). Analysing student expectation on mobile technologies to enhance student learning experience. In 2021 *2nd International Conference on Education Development and Studies* (pp. 45–49).  doi:https://doi.org/10.1145/3459043.3459050
- 6 Gurung, M. P., Paudel, K., & **Kadel**, R. (2020). Comparative analysis of popular digital assessment tools for formative assessment on networking courses. In *14th International Technology, Education and Development Conference. IATED*.  doi:10.21125/inted.2020.0775
- 7 Odewole, T., & **Kadel**, R. (2020). Smart attendance system in an enterprise-based access point environment. In 2020 *30th International Telecommunication Networks and Applications Conference (ITNAC)* (pp. 1–6). IEEE.  doi:10.1109/ITNAC50341.2020.9315148
- 8 Banepali, A., **Kadel**, R., Guruge, D. B., & Halder, S. J. (2019). Design and implementation of wi-fi based attendance system using raspberry pi. In 2019 *29th International Telecommunication Networks and Applications Conference (ITNAC)* (pp. 1–6). IEEE.  doi:10.1109/ITNAC46935.2019.9077985
- 9 **Kadel**, R., Paudel, K., & Gurung, M. P. (2019). A review on educational games design, development and effectiveness measurement. In 2019 *IEEE International Conference on Engineering, Technology and Education (TALE)* (pp. 1–7). IEEE.  doi:10.1109/TALE48000.2019.9225880
- 10 Li, S., & **Kadel**, R. (2019). Design of a hybrid RFID-WLAN based smart parking and vehicle finding system. In 2019 *Cybersecurity and Cyberforensics Conference (CCC)* (pp. 56–61). IEEE Computer Society.  doi:10.1109/CCC.2019.000–9
- 11 Gurung, M. P., & **Kadel**, R. (2018). *Efficacy of moodle forum in teaching and learning*. In *The Asian Conference on Education 2018 Official Conference Proceedings*.
- 12 **Kadel**, R., Halder, S. J., Paudel, K., & Gurung, M. P. (2018). Analyzing effect of GBL on student engagement and academic performance in computer networking course. In *Proceedings of the 20th International Conference on Information Integration and Web-based Applications & Services* (pp. 143–145).  doi:https://doi.org/10.1145/3282373.3282855
- 13 **Kadel**, R., & Islam, N. (2018). Comparison of channel models for wireless body area networks (WBANS). In 2018 *IEEE Conference on Wireless Sensors (ICWiSe)* (pp. 77–82). IEEE.  doi:10.1109/ICWISE.2018.8633288
- 14 **Kadel**, R., Ahmed, K., & Nepal, A. (2017). Adaptive error control code implementation framework for software defined wireless sensor network (SDWSN). In 2017 *27th International Telecommunication Networks and Applications Conference (ITNAC)* (pp. 1–6). IEEE.  doi:10.1109/ATNAC.2017.8215413
- 15 **Kadel**, R., & Lechner, G. (2013). Repeat-accumulate codes for block-fading channels. In 2013 *Australian communications theory workshop (AUSCTW)* (pp. 37–42). IEEE.  doi:10.1109/AusCTW.2013.6510041

- 16 **Kadel, R., & Lechner, G.** (2012). Full diversity binary message-passing decoders for block fading channels. In *2012 Australian communications theory workshop (AUSCTW)* (pp. 66–71). IEEE.
 doi:10.1109/AusCTW.2012.6164908

Technical Report

- 1 **Kadel, R.** (2023). *Analyzing the Prospects of 5G Technology in Nepal: An In-Depth Comparative Analysis of Socio-Economic Advantage Realized by Other Nations Through Its Adoption*, Deloitte Consulting, USAID Trade and Competitiveness Activity, Kathmandu, Nepal.

Theses

- 1 **Kadel, R.** (2013). Full-diversity codes for block-fading channels. University of South Australia. PhD Thesis.  doi:10.13140/RG.2.2.11688.48640
- 2 **Kadel, R.** (2007). Decoder Design and Implementation on FPGA for Small UAVs. University of Gävle. Master Thesis.  doi:10.13140/RG.2.2.18285.28642