References

- [1] I. Kwan *et al.*, "Cyberbullying and children and young people's mental health: a systematic map of systematic reviews," *Cyberpsychol Behav Soc Netw*, vol. 23, no. 2, pp. 72–82, 2020.
- [2] D. Zhang, E. S. Huebner, and L. Tian, "Longitudinal associations among neuroticism, depression, and cyberbullying in early adolescents," *Comput Human Behav*, vol. 112, p. 106475, 2020.
- [3] H. Nurrahmi and D. Nurjanah, "Indonesian twitter cyberbullying detection using text classification and user credibility," in 2018 International Conference on Information and Communications Technology (ICOIACT), 2018, pp. 543–548.
- [4] S. T. Laxmi, R. Rismala, and H. Nurrahmi, "Cyberbullying detection on Indonesian twitter using doc2vec and convolutional neural network," in *2021 9th international conference on information and communication technology (ICoICT)*, 2021, pp. 82–86.
- [5] C. Slamet, A. Krismunandar, D. S. Maylawati, A. S. Amin, M. A. Ramdhani, and others, "Deep Learning Approach for Bullying Classification on Twitter Social Media with Indonesian Language," in 2020 6th International Conference on Wireless and Telematics (ICWT), 2020, pp. 1–5.
- [6] A. Jacovi, O. S. Shalom, and Y. Goldberg, "Understanding convolutional neural networks for text classification," *arXiv preprint arXiv:1809.08037*, 2018.
- M. Zulqarnain, R. Ghazali, M. G. Ghouse, and M. F. Mushtaq, "Efficient processing of GRU based on word embedding for text classification," *JOIV: International Journal on Informatics Visualization*, vol. 3, no. 4, pp. 377–383, 2019.
- [8] M. Campbell and S. Bauman, "Cyberbullying: Definition, consequences, prevalence," in *Reducing cyberbullying in schools*, Elsevier, 2018, pp. 3–16.
- [9] F. B. Shaikh, M. Rehman, and A. Amin, "Cyberbullying: A systematic literature review to identify the factors impelling university students towards cyberbullying," *IEEE Access*, vol. 8, pp. 148031–148051, 2020.
- [10] M. A. Al-Garadi *et al.*, "Predicting cyberbullying on social media in the big data era using machine learning algorithms: review of literature and open challenges," *IEEE Access*, vol. 7, pp. 70701–70718, 2019.
- [11] L. Anindyati, A. Purwarianti, and A. Nursanti, "Optimizing deep learning for detection cyberbullying text in indonesian language," in 2019 International Conference of Advanced Informatics: Concepts, Theory and Applications (ICAICTA), 2019, pp. 1–5.
- [12] C. Raj, A. Agarwal, G. Bharathy, B. Narayan, and M. Prasad, "Cyberbullying detection: Hybrid models based on machine learning and natural language processing techniques," *Electronics (Basel)*, vol. 10, no. 22, p. 2810, 2021.
- [13] Y. Luo, X. Zhang, J. Hua, and W. Shen, "Multi-featured cyberbullying detection based on deep learning," in 2021 16th International Conference on Computer Science & Education (ICCSE), 2021, pp. 746–751.
- [14] M. Gada, K. Damania, and S. Sankhe, "Cyberbullying Detection using LSTM-CNN architecture and its applications," in 2021 International Conference on Computer Communication and Informatics (ICCCI), 2021, pp. 1–6.
- [15] C. Iwendi, G. Srivastava, S. Khan, and P. K. R. Maddikunta, "Cyberbullying detection solutions based on deep learning architectures," *Multimed Syst*, pp. 1–14, 2020.
- [16] A. I. Kadhim, "An evaluation of preprocessing techniques for text classification," *International Journal of Computer Science and Information Security (IJCSIS)*, vol. 16, no. 6, pp. 22–32, 2018.
- [17] A. Perera and P. Fernando, "Accurate cyberbullying detection and prevention on social media," *Procedia Comput Sci*, vol. 181, pp. 605–611, 2021.
- [18] M. M. Islam, M. A. Uddin, L. Islam, A. Akter, S. Sharmin, and U. K. Acharjee, "Cyberbullying detection on social networks using machine learning approaches," in 2020 IEEE Asia-Pacific Conference on Computer Science and Data Engineering (CSDE), 2020, pp. 1–6.
- [19] A. Rusli, J. C. Young, and N. M. S. Iswari, "Identifying fake news in Indonesian via supervised binary text classification," in 2020 IEEE International Conference on Industry 4.0, Artificial Intelligence, and Communications Technology (IAICT), 2020, pp. 86–90.
- [20] L. Gutiérrez and B. Keith, "A systematic literature review on word embeddings," in *Trends and Applications in Software Engineering: Proceedings of the 7th International Conference on Software Process Improvement (CIMPS 2018)* 7, 2019, pp. 132–141.
- [21] R. Brochier, A. Guille, and J. Velcin, "Global vectors for node representations," in *The World Wide Web Conference*, 2019, pp. 2587–2593.
- [22] U. Naseem, I. Razzak, S. K. Khan, and M. Prasad, "A comprehensive survey on word representation models: From classical to state-of-the-art word representation language models," *Transactions on Asian* and Low-Resource Language Information Processing, vol. 20, no. 5, pp. 1–35, 2021.

- [23] E. B. Setiawan, D. H. Widyantoro, and K. Surendro, "Feature expansion using word embedding for tweet topic classification," in 2016 10th International Conference on Telecommunication Systems Services and Applications (TSSA), 2016, pp. 1–5.
- [24] M. V Valueva, N. N. Nagornov, P. A. Lyakhov, G. V Valuev, and N. I. Chervyakov, "Application of the residue number system to reduce hardware costs of the convolutional neural network implementation," *Math Comput Simul*, vol. 177, pp. 232–243, 2020.
- [25] S. Ghimire, Z. M. Yaseen, A. A. Farooque, R. C. Deo, J. Zhang, and X. Tao, "Streamflow prediction using an integrated methodology based on convolutional neural network and long short-term memory networks," *Sci Rep*, vol. 11, no. 1, p. 17497, 2021.
- [26] S. Sachin, A. Tripathi, N. Mahajan, S. Aggarwal, and P. Nagrath, "Sentiment analysis using gated recurrent neural networks," *SN Comput Sci*, vol. 1, pp. 1–13, 2020.
- [27] K. E. ArunKumar, D. V Kalaga, C. M. S. Kumar, M. Kawaji, and T. M. Brenza, "Forecasting of COVID-19 using deep layer recurrent neural networks (RNNs) with gated recurrent units (GRUs) and long short-term memory (LSTM) cells," *Chaos Solitons Fractals*, vol. 146, p. 110861, 2021.
- [28] M. Sajjad *et al.*, "A novel CNN-GRU-based hybrid approach for short-term residential load forecasting," *Ieee Access*, vol. 8, pp. 143759–143768, 2020.
- [29] N. Dua, S. N. Singh, V. B. Semwal, and S. K. Challa, "Inception inspired CNN-GRU hybrid network for human activity recognition," *Multimed Tools Appl*, vol. 82, no. 4, pp. 5369–5403, 2023.
- [30] R. Pawar and R. R. Raje, "Multilingual cyberbullying detection system," in 2019 IEEE international conference on electro information technology (EIT), 2019, pp. 40–44.