

DAFTAR PUSTAKA

- [1] A. V Savchenko, L. V Savchenko, and I. Makarov, "Classifying Emotions and Engagement in Online Learning Based on a Single Facial Expression Recognition Neural Network," *IEEE Trans Affect Comput*, vol. 13, no. 4, pp. 2132–2143, 2022, doi: 10.1109/TAFFC.2022.3188390.
- [2] E. Churaev and A. V Savchenko, "A standalone software for real-time facial analysis in online conferences and e-lessons," *Software Impacts*, vol. 16, p. 100507, 2023, doi: <https://doi.org/10.1016/j.simpa.2023.100507>.
- [3] S. Gupta, P. Kumar, and R. Tekchandani, "EDFA: Ensemble deep CNN for assessing student's cognitive state in adaptive online learning environments," *International Journal of Cognitive Computing in Engineering*, vol. 4, pp. 373–387, 2023, doi: <https://doi.org/10.1016/j.ijcce.2023.11.001>.
- [4] T. Ayril, M. Pedersoli, S. Bacon, and E. Granger, "Temporal Stochastic Softmax for 3D CNNs: An Application in Facial Expression Recognition," in *2021 IEEE Winter Conference on Applications of Computer Vision (WACV)*, 2021, pp. 3028–3037. doi: 10.1109/WACV48630.2021.00307.
- [5] M. Aly, A. Ghallab, and I. S. Fathi, "Enhancing Facial Expression Recognition System in Online Learning Context Using Efficient Deep Learning Model," *IEEE Access*, vol. 11, pp. 121419–121433, 2023, doi: 10.1109/ACCESS.2023.3325407.
- [6] A. Sassi, W. Jaafar, S. Cherif, J. B. Abderrazak, and H. Yanikomeroğlu, "Video Traffic Analysis for Real-Time Emotion Recognition and Visualization in Online Learning," *IEEE Access*, vol. 11, pp. 99376–99386, 2023, doi: 10.1109/ACCESS.2023.3313973.
- [7] J. Teng, D. Zhang, W. Zou, M. Li, and D.-J. Lee, "Typical Facial Expression Network Using a Facial Feature Decoupler and Spatial-

- Temporal Learning,” *IEEE Trans Affect Comput*, vol. 14, no. 2, pp. 1125–1137, 2023, doi: 10.1109/TAFFC.2021.3102245.
- [8] S. Teja, C. Chinmai, D. Srinivas, S. Reddy, and A. Kumar, “FACIAL EXPRESSION DETECTION USING DEEP NEURAL NETWORKS.”
- [9] H. Li, J. Sun, Z. Xu, and L. Chen, “Multimodal 2D+3D Facial Expression Recognition With Deep Fusion Convolutional Neural Network,” *IEEE Trans Multimedia*, vol. 19, no. 12, pp. 2816–2831, 2017, doi: 10.1109/TMM.2017.2713408.
- [10] M. Li, H. Xu, X. Huang, Z. Song, X. Liu, and X. Li, “Facial Expression Recognition with Identity and Emotion Joint Learning,” *IEEE Trans. Affect. Comput.*, vol. 12, no. 2, pp. 544–550, Apr. 2021, doi: 10.1109/TAFFC.2018.2880201.
- [11] J. Xiao, C. Gan, Q. Zhu, Y. Zhu, and G. Liu, “CFNet: Facial expression recognition via constraint fusion under multi-task joint learning network,” *Appl Soft Comput*, vol. 141, p. 110312, 2023, doi: <https://doi.org/10.1016/j.asoc.2023.110312>.
- [12] D. F. Murad, R. Hassan, Y. Heryadi, B. D. Wijanarko, and Titan, “The Impact of the COVID-19 Pandemic in Indonesia (Face to face versus Online Learning),” in *Proceeding - 2020 3rd International Conference on Vocational Education and Electrical Engineering: Strengthening the framework of Society 5.0 through Innovations in Education, Electrical, Engineering and Informatics Engineering, ICVEE 2020*, Institute of Electrical and Electronics Engineers Inc., Oct. 2020. doi: 10.1109/ICVEE50212.2020.9243202.
- [13] Z. Li, F. Liu, W. Yang, S. Peng, and J. Zhou, “A Survey of Convolutional Neural Networks: Analysis, Applications, and Prospects,” *IEEE Trans Neural Netw Learn Syst*, vol. 33, no. 12, pp. 6999–7019, 2022, doi: 10.1109/TNNLS.2021.3084827.
- [14] W. Liu and J. Lee, “A 3-D Atrous Convolution Neural Network for Hyperspectral Image Denoising,” *IEEE Transactions on Geoscience*

and Remote Sensing, vol. 57, no. 8, pp. 5701–5715, 2019, doi:
10.1109/TGRS.2019.2901737.

[15] T. Li, M. Hua, and X. Wu, “A Hybrid CNN-LSTM Model for Forecasting Particulate Matter (PM_{2.5}),” *IEEE Access*, vol. 8, pp. 26933–26940, 2020, doi: 10.1109/ACCESS.2020.2971348.

[16] B. Hasani and M. H. Mahoor, “Facial Expression Recognition Using Enhanced Deep 3D Convolutional Neural Networks,” in *2017 IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)*, IEEE, Jul. 2017, pp. 2278–2288. doi: 10.1109/cvprw.2017.282.