

## DAFTAR PUSTAKA

- [1] Sekretariat Jendral DPR RI, *Budget Issue Brief Kesejahteraan Rakyat* , vol. 2, 2022.
- [2] B. A. ABDULLAH, G. AMOUDI and H. ALGHAMDI, "Advancements in Sign Language Recognition: A Comprehensive Review and Future Prospects," vol. 11, p. 29, 2023.
- [3] M. AL-QURISHI, T. KHALID dan R. SOUISSI, "Deep Learning for Sign Language Recognition: Current Techniques, Benchmarks, and Open Issues," vol. 4, p. 35, 2016.
- [4] Y. Gu, Sherrine, W. Wei, X. Li, J. Yuan dan M. Todoh, "American Sign Language Alphabet Recognition Using Inertial Motion Capture System with Deep Learning," p. 15, 2022.
- [5] A. Haldera dan A. Tayadeb, "Real-time Vernacular Sign Language Recognition using MediaPipe and Machine Learning," *International Journal of Research Publication and Reviews*, vol. Vol (2), no. Issue (5), pp. Page 9-17, 2021.
- [6] S. Ba dan B. Tb, "American Sign Language Recognition for Alphabets Using MediaPipe and LSTM," *Procedia Computer Science* 215, p. 642–651, 2022.
- [7] A. Sherstinsky, "Fundamentals of Recurrent Neural Network (RNN) and Long Short-Term Memory (LSTM) Network," *Physica D: Nonlinear Phenomena*, vol. Volume 404, p. 43, 2020.
- [8] A. Bhadouria, P. Bindal, N. Khare, D. Singh dan A. Verma, "LSTM-Based Recognition of Sign Language," *IC3-2024: Proceedings of the 2024 Sixteenth International Conference on Contemporary Computing*, pp. Pages 508 - 514, 2024.
- [9] C. Lugaresi, J. Tang, H. Nash, C. McClanahan, E. Uboweja, M. Hays, F. Zhang, C.-L. Chang, M. G. Yong, J. Lee, W.-T. Chang, W. Hua, M. Georg dan M. Grundmann, "MediaPipe: A Framework for Building Perception Pipelines," arxiv.org, 2019.
- [10] J. Bora, S. Dehingia, A. Boruah, A. A. Chetia dan D. Gogoi, "Real-time Assamese Sign Language Recognition using MediaPipe and Deep Learning," *Procedia Computer Science* 218, p. 1384–1393, 2023.

- [11] G. H. Samaan, A. R. Wadie, A. K. Attia, A. M. Asaad, A. E. Kamel, S. O. Slim, M. S. Abdallah dan Y.-I. Cho, "MediaPipe's Landmarks with RNN for Dynamic Sign Language Recognition," *Electronics*, p. 15, 2022.
- [12] H. Orovwode, I. D. Oduntan dan J. Abubakar, "Development of a Sign Language Recognition System Using Machine Learning," p. 8, 2023.
- [13] Y. Wang, Z. Hao, X. Dang, Z. Zhang dan M. Li, "UltrasonicGS: A Highly Robust Gesture and Sign Language Recognition Method Based on Ultrasonic Signals," p. 21, 2023.
- [14] R. M. Abdulhamied, M. M. Nasr dan S. N. Abdulkader, "Real-time recognition of American sign language using longshort term memory neural network and hand detection," *Indonesian Journal of Electrical Engineering and Computer Science*, vol. Vol. 30, no. No. 1, p. pp. 545~556, 2023.
- [15] J. Zhang, X. Bu, Y. Wang, H. Dong, Y. Zhang dan H. Wu, "Sign language recognition based on dual-path background erasure convolutional neural network," *Scientific Reports*, p. 12, 2024.
- [16] R. K. Pathan, M. Biswas, S. Yasmin, M. U. Khandaker, M. Salman dan A. A. F. Youssef, "Sign language recognition using the fusion of image and hand landmarks through multi-headed convolutional neural network," *Scientific Reports*, p. 11, 2023.
- [17] Z. Zhang, F. Feng dan T. Huang, "FNNS: An Effective Feedforward Neural Network Scheme with Random Weights for Processing Large-Scale Datasets," *Applied Sciences*, p. 14, 2022.
- [18] G. Kazbekova, Z. Ismagulova, G. Ibrayeva, A. Sundetova, Y. Abdrazakh dan B. Baimurzayev, "Real-Time Lightweight Sign Language Recognition on Hybrid Deep CNN-BiLSTM Neural Network with Attention Mechanism," (*IJACSA International Journal of Advanced Computer Science and Applications*, vol. 16, no. 4, pp. 510-522, 2025.
- [19] B. A. DABWAN, "CONVOLUTIONAL NEURAL NETWORK-BASED SIGN LANGUAGE TRANSLATION SYSTEM," *International Journal of Engineering, Science and Mathematics*, vol. Vol.9, no. Issue 6, pp. 47-57, 2020.
- [20] M. Gao, F. Zheng, J. J. Q. Yu, C. Shan, G. Ding dan J. Han, "Deep learning for video object segmentation: a review," *Artificial Intelligence Review*, vol. 56, p. 457-531, 2022.
- [21] L. Alzubaidi, J. Zhang, A. J. Humaidi, A. Al-Dujaili, Y. Duan, O. Al-Shamma, J. Santamaría, M. A. Fadhel, M. Al-Amidie dan L. Farhan, "Review of deep

learning: concepts, CNN architectures, challenges, applications, future directions,” *Journal of Big Data*, vol. 8, pp. 1-74, 2021.

- [22] M. H. Wani dan A. R. Faridi, “Deep Learning-Based Video Action Recognition: A Review,” *2022 International Conference on Computing, Communication, and Intelligent Systems (ICCCIS)*, pp. 243-249, 2022.
- [23] M. Buda, A. Maki dan M. A. Mazurowski, “A systematic study of the class imbalance problem,” *Neural Networks*, vol. 106, pp. 249-259, 2018.
- [24] M. Gil-Martín, M. R. Marini, I. Martín-Fernández, S. Esteban-Romero dan L. Cinque, “Hand Gesture Recognition Using MediaPipe Landmarks and Deep Learning Networks,” *Proceedings of the 17th International Conference on Agents and Artificial Intelligence (ICAART 2025)*, vol. 3, pp. 24-30, 2025.
- [25] G. Iglesias, E. Talavera, A. Gonzalez-Prieto, A. Mozo dan S. Gomez-Canaval, “Data Augmentation techniques in time series domain: A survey and taxonomy,” *Neural Computing and Applications*, vol. 35, p. 10123–10145, 2023.
- [26] K. Kamycki, T. Kapuscinski dan M. Oszust, “Data Augmentation with Suboptimal Warping for Time-Series Classification,” *Sensors*, pp. 1-15, 2020.
- [27] M. Grandini, E. Bagli dan G. Visani, “METRICS FOR MULTI-CLASS CLASSIFICATION: AN OVERVIEW,” *A WHITE PAPER*, pp. 1-17, 2020.
- [28] W. Torres, L. Santos, G. Melo, A. Oliveira, P. Nascimento, G. Carvalho, T. Neves, A. Martins dan Í. Araújo, “A Framework for Real-Time Gestural Recognition and Augmented Reality for Industrial Applications,” *Sensors*, pp. 1-15, 2024.