

## DAFTAR PUSTAKA

- [1] K. Özcar and M. Alkhalifa, “Digihuman: A conversational digital human with facial expressions,” *Turkish Journal of Science and Technology*, vol. 19, no. 1, pp. 25–37, 2024.
- [2] S. W. Song and M. Shin, “Uncanny valley effects on chatbot trust, purchase intention, and adoption intention in the context of e-commerce: The moderating role of avatar familiarity,” *International Journal of Human-Computer Interaction*, vol. 40, no. 2, pp. 441–456, 2024.
- [3] F. P. Lovely and A. Wicaksana, “Rule-based lip-syncing algorithm for virtual character in voice chatbot,” *TELKOMNIKA (Telecommunication Computing Electronics and Control)*, vol. 19, no. 5, pp. 1517–1528, 2021.
- [4] Y. Pan, C. Liu, S. Xu, S. Tan, and J. Yang, “Vasa-rig: Audio-driven 3d facial animation with ‘live’ mood dynamics in virtual reality,” *IEEE Transactions on Visualization and Computer Graphics*, 2025.
- [5] L. Bao, H. Zhang, Y. Qian, T. Xue, C. Chen, X. Zhe, and D. Kang, “Learning audio-driven viseme dynamics for 3d face animation,” *arXiv preprint arXiv:2301.06059*, 2023.
- [6] A. Borji and M. Mohammadian, “Battle of the wordsmiths: Comparing chatgpt, gpt-4, claude, and bard,” *SSRN Electronic Journal*, Jan. 2023.
- [7] N. Bumann, “Automated chatbot using speech-to-text and text-to-speech with mobile app integration,” *Swiss Open Access Repository*, 2023.
- [8] M. Salli, “3d game character animations in unreal engine 5: Creation and implementation,” *Theseus*, 2023.
- [9] J. R. Lewis, “The system usability scale: past, present, and future,” *International Journal of Human-Computer Interaction*, vol. 34, no. 7, pp. 577–590, 2018.
- [10] T. B. Brown, B. Mann, N. Ryder, M. Subbiah, J. Kaplan, P. Dhariwal, A. Neelakantan, P. Shyam, G. Sastry, A. Askell, S. Agarwal, A. Herbert-Voss, G. Krueger, T. Henighan, R. Child, A. Ramesh, D. M. Ziegler, J. Wu, C. Winter, C. Hesse, M. Chen, E. Sigler, M. Litwin, S. Gray, B. Chess, J. Clark, C. Berner, S. McCandlish, A. Radford, I. Sutskever, and D. Amodei, “Language models are few-shot learners,” *CoRR*, vol. abs/2005.14165, 2020.
- [11] X. Tan, T. Qin, F. Soong, and T.-Y. Liu, “A survey on neural speech synthesis,” 2021.

- [12] Y. Pan, K. Kim, J. Lee, Y. Sang, and J. Cheon, “Research on the application of digital human production based on photoscan realistic head 3d scanning and unreal engine metahuman technology in the metaverse,” *International journal of advanced smart convergence*, vol. 11, no. 3, pp. 102–118, 2022.
- [13] D. Cudeiro, T. Bolkart, C. Laidlaw, A. Ranjan, and M. J. Black, “Capture, learning, and synthesis of 3d speaking styles,” *2022 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, p. 10093–10103, Jun. 2019.
- [14] L. Ngik Hoon, K. Abd Rahman, and W. Chai, “Framework development of real-time lip sync animation on viseme based human speech,” *Jurnal Teknologi*, vol. 75, 07 2015.
- [15] J. M. Bare, D. C. Espy-Wilson, D. T. Pruthi, and M. BIEN, “Automatic volume leveler for real time speech applications,” *MERIT*, 2011, university of Maryland.
- [16] M. Milner-Bolotin and R. Zazkis, “A study of future physics teachers’ knowledge for teaching: A case of a decibel sound level scale.” *LUMAT: International Journal on Math, Science and Technology Education*, vol. 9, no. 1, pp. 336–365, 2021.
- [17] J. Gondohanindijo, Muljono, E. Noersasongko, Pujiono, and D. R. M. Setiadi, “Multi-features audio extraction for speech emotion recognition based on deep learning,” *International Journal of Advanced Computer Science and Applications*, vol. 14, no. 6, Jan. 2023.
- [18] J. R. Lewis and J. Sauro, “Item benchmarks for the system usability scale,” *Journal of Usability Studies Archive*, vol. 13, no. 3, p. 158–167, May 2018.
- [19] G. M. Sullivan and A. R. Artino Jr, “Analyzing and interpreting data from likert-type scales,” *Journal of graduate medical education*, vol. 5, no. 4, p. 541, 2013.

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