

DAFTAR PUSTAKA

- [1] Y. O. Cakmak, B. K. Daniel, N. Hammer, O. Yilmaz, E. C. Irmak, and P. Khwaounjoo, “The Human Muscular Arm Avatar as an Interactive Visualization Tool in Learning Anatomy: Medical Students’ Perspectives,” *IEEE Trans. Learn. Technol.*, vol. 13, no. 3, pp. 593–603, 2020, doi: 10.1109/TLT.2020.2995163.
- [2] “HACS: Hand Action Coding System for Anatomy-Based Synthesis of Hand Gestures Horace H S Ip , Sam C S Chan and Maria S W Lam Image Computing Group , Department of Computer Science , City University of Hong Kong , 83 , Tat Chee Avenue , Kowloon , Hong Kong,” *Simulation*, 1998. doi: 12.19/PLC.1998.23163.
- [3] H. Abbas, S. Hamandi, M. Abdulsattar, and Y. Sabeeh, “The Effect of Prosthetic Foot Type on Spatio- Temporal Parameters of Unilateral Below-Knee Amputees : A Case Study,” pp. 51–56, 2020, doi: 10.1109/iCareTech49914.2020.00017.
- [4] M. R. Ahsan, M. I. Ibrahimy, and O. O. Khalifa, “Electromyography (EMG) signal based hand gesture recognition using artificial neural network (ANN),” *2011 4th Int. Conf. Mechatronics Integr. Eng. Ind. Soc. Dev. ICOM’11 - Conf. Proc.*, no. May, pp. 17–19, 2011, doi: 10.1109/ICOM.2011.5937135.
- [5] M. Atzori, A. Gijsberts, B. Caputo, and H. Muller, “Natural control capabilities of robotic hands by hand amputated subjects,” *2014 36th Annu. Int. Conf. IEEE Eng. Med. Biol. Soc. EMBC 2014*, pp.

4362–4365, 2014, doi: 10.1109/EMBC.2014.6944590.

- [6] C. K. Bhattacharjee, “Finger Movement Classification Based on Statistical and Frequency Features Extracted from Surface EMG Signals,” pp. 11–12, 2019. doi: 109/TA.2019.299.
- [7] J. Doi and M. Yamanaka, “Discrete finger and palmar feature extraction for personal authentication,” *IEEE Trans. Instrum. Meas.*, vol. 54, no. 6, pp. 2213–2219, 2005, doi: 10.1109/TIM.2005.858820.
- [8] J. V. Basmajian, “A New Six-Channel Electromyograph for Studies on Muscle,” *IRE Trans. Med. Electron.*, vol. PGME-11, pp. 45–47, 1958, doi: 10.1109/IRET-ME.1958.5008496.
- [9] M. E. Benalc, “Real-Time Hand Gesture Recognition With EMG Using Machine Learning,” 2017. doi: 09/QQ.2017.321.
- [10] T. Leeudomwong, S. Phowichit, and W. Ussawawongaraya, “Multi-channel surface electromyograph for monitoring intradialytic cramp,” *Proceeding - 5th Int. Conf. Eng. Appl. Sci. Technol. ICEAST 2019*, no. 6243102, pp. 5–8, 2019, doi: 10.1109/ICEAST.2019.8802520.
- [11] G. A. C *et al.*, “Post-Stroke Rehabilitation Monitoring Using Wireless Surface Electromyography : A Case Study,” *2018 IEEE Int. Symp. Med. Meas. Appl.*, vol. 3528725544, pp. 1–6, 2018. doi: 19/GAC.2018.29.
- [12] N. Chaobankoh *et al.*, “Lower-Limb Motion-Based Ankle-Foot Movement Classification Using 2D-CNN,” *Comput. Mater.*

- Contin.*, vol. 73, no. 1, pp. 1269–1282, 2022, doi: 10.32604/cmc.2022.027474.
- [13] S. S. Chawathe, “Hand Gestures from Low-Cost Surface-Electromyographs,” *Proc. IEEE Natl. Aerosp. Electron. Conf. NAECON*, vol. 2019-July, pp. 362–369, 2019, doi: 10.1109/NAECON46414.2019.9057908.
- [14] A. Devaraj and A. K. Nair, “Hand Gesture Signal Classification using Machine Learning,” *Proc. 2020 IEEE Int. Conf. Commun. Signal Process. ICCSP 2020*, pp. 390–394, 2020, doi: 10.1109/ICCSP48568.2020.9182045.
- [15] L. D. Dunai, M. Novak, and I. L. Lengua, “Development of a prosthetic hand based on human hand anatomy,” *IECON Proc. (Industrial Electron. Conf.)*, vol. 2020-October, pp. 600–605, 2020, doi: 10.1109/IECON43393.2020.9254216.
- [16] Ö. F. Ertuğrul, M. E. Tağluk, Y. Kaya, and R. Tekğn, “EMG Sinyallerinin AĞır Öğrenme Makinesi ile Sınıflandırılması EMG Signal Classification by Extreme Learning Machine,” pp. 9–12, 2013. doi: 992.2/EMG.2013.33.63.
- [17] R. Ismail, G. D. Wijaya, M. Ariyanto, A. Suriyanto, and W. Caesarendra, “Development of Myoelectric Prosthetic Hand based on Arduino IDE and Visual C # for Trans-radial Amputee in Indonesia,” *2018 Int. Conf. Appl. Eng.*, pp. 1–5, 2018. doi: 12.2345/12.781.2018.33.455.
- [18] T. Hasan, A. Matin, M. Kamruzzaman, S. Islam, and M. O. F.

- Goni, “A Comparative Analysis of Feature Extraction Methods for Human Opinion Grouping Using Several Machine Learning Techniques,” *Proc. 2020 IEEE Int. Women Eng. Conf. Electr. Comput. Eng. WIECON-ECE 2020*, pp. 272–275, 2020, doi: 10.1109/WIECON-ECE52138.2020.9398025.
- [19] R. V Godoy *et al.*, “On EMG Based Dexterous Robotic Telemanipulation : Assessing Machine Learning Techniques , Feature Extraction Methods , and Shared Control Schemes,” *IEEE Access*, vol. 10, no. September, pp. 99661–99674, 2022, doi: 10.1109/ACCESS.2022.3206436.
- [20] X. Kang, M. H. Schieber, and N. V. Thakor, “Decoding of finger, hand and arm kinematics using switching linear dynamical systems with pre-motor cortical ensembles,” *Proc. Annu. Int. Conf. IEEE Eng. Med. Biol. Soc. EMBS*, pp. 1732–1735, 2012, doi: 10.1109/EMBC.2012.6346283.
- [21] Q. X. Li, P. P. K. Chan, D. Zhou, Y. Fang, H. Liu, and D. S. Yeung, “Improving robustness against electrode shift of sEMG based hand gesture recognition using online semi-supervised learning,” *Proc. - Int. Conf. Mach. Learn. Cybern.*, vol. 1, pp. 344–349, 2016, doi: 10.1109/ICMLC.2016.7860925.
- [22] Z. Q. Ling, G. Z. Cao, Y. P. Zhang, H. R. Cheng, B. Bin He, and S. Bin Cao, “Real-time knee joint angle estimation based on surface electromyograph and back propagation neural network,” *2021 18th Int. Conf. Ubiquitous Robot. UR 2021*, pp. 256–263,

2021, doi: 10.1109/UR52253.2021.9494639.

- [23] H. Mad Kaidi, M. A. M. Izhar, N. Ahmad, R. A. Dziauddin, S. Sarip, and S. Z. A. Jalil, “Rehabilitation monitoring prototype: Arduino Nano 35 BLE,” *J. Phys. Conf. Ser.*, vol. 2250, no. 1, 2022, doi: 10.1088/1742-6596/2250/1/012009.
- [24] R. R. Prasanna, P. Chowdary Kakarla, V. P. Simha, and N. Mohan, “Implementation of Tiny Machine Learning Models on Arduino 33-Ble for Gesture and Speech Recognition,” *J. Xi’an Univ. Archit. Technol.*, vol. XIV, no. 7, pp. 160–169, 2022. doi: 10.108/42-659/220/0009.
- [25] R. H. Paradisa, D. Sarwinda, A. Bustamam, and T. Argyadiva, “Classification of Diabetic Retinopathy through Deep Feature Extraction and Classic Machine Learning Approach,” *2020 3rd Int. Conf. Inf. Commun. Technol. ICOIACT 2020*, pp. 377–381, 2020, doi: 10.1109/ICOIACT50329.2020.9332082.
- [26] K. Samanta, S. S. Roy, and S. Chatterjee, “Neuromuscular Disease Detection Employing Deep Feature Extraction from Cross Spectrum Images of Electromyography Signals,” pp. 1–4, 2020. doi: 112.28/134/2220/5/0ee39.
- [27] T. Triwiyanto *et al.*, “Electromyography feature analysis to recognize the hand motion in a prosthetic hand design,” *J. Biomimetics, Biomater. Biomed. Eng.*, vol. 50, pp. 25–37, 2021, doi: 10.4028/www.scientific.net/JBBBE.50.25.
- [28] N. Tu, “Feature Extraction and Classification of Neuromuscular

- Diseases Using Scanning EMG,” pp. 3–6, 2014. doi: 88/1742-96/20/9/0209.
- [29] B. Zhang and S. Zhang, “The Estimation of Grasping Force Based On the Feature Extracted From EMG Signals,” pp. 1477–1480, 2016. doi: 8/1796/2330/21kk09.
- [30] M. Widagda, T. A. Sardjono, and R. Mardiyanto, “Design of Intonation Control on Electrolarynx Using Electromyograph (EMG),” *Proceeding - 2018 Int. Semin. Intell. Technol. Its Appl. ISITIA 2018*, no. 2, pp. 443–447, 2018, doi: 10.1109/ISITIA.2018.8711156.
- [31] S. Loussaief and A. Abdelkrim, “Deep learning vs. bag of features in machine learning for image classification,” *2018 Int. Conf. Adv. Syst. Electr. Technol. IC_ASET 2018*, pp. 6–10, 2018, doi: 10.1109/ASET.2018.8379825.
- [32] L. Morales, “An experimental comparative analysis among different classifiers applied to identify hand movements based on sEMG,” 2017. doi: 88/17-6/50/1/03445.
- [33] K. P. N. V. Satya Sree, T. Bikku, S. Mounika, N. Ravinder, M. Lakshmana Kumar, and C. Prasad, “EMG Controlled Bionic Robotic Arm using Artificial Intelligence and Machine Learning,” *Proc. 5th Int. Conf. I-SMAC (IoT Soc. Mobile, Anal. Cloud), I-SMAC 2021*, no. June, pp. 548–554, 2021, doi: 10.1109/I-SMAC52330.2021.9640623.
- [34] T. Triwiyanto, I. P. A. Pawana, and M. H. Purnomo, “An Improved

- Performance of Deep Learning Based on Convolution Neural Network to Classify the Hand Motion by Evaluating Hyper Parameter,” *IEEE Trans. Neural Syst. Rehabil. Eng.*, vol. 28, no. 7, pp. 1678–1688, 2020, doi: 10.1109/TNSRE.2020.2999505.
- [35] D. M. Waqar, T. S. Gunawan, M. A. Morshidi, and M. Kartiwi, “Design of a Speech Anger Recognition System on Arduino Nano 33 BLE Sense,” *2021 IEEE 7th Int. Conf. Smart Instrumentation, Meas. Appl. ICSIMA 2021*, no. November, pp. 64–69, 2021, doi: 10.1109/ICSIMA50015.2021.9526323.
- [36] L. Zhengyi, Z. Hui, Y. Dandan, and X. Shuiqing, “Multimodal deep learning network based hand ADLs tasks classification for prosthetics control,” *Proc. 2017 Int. Conf. Prog. Informatics Comput. PIC 2017*, no. 2015, pp. 91–95, 2017, doi: 10.1109/PIC.2017.8359521.
- [37] M. Yoshikawa, R. Sato, T. Higashihara, T. Ogasawara, and N. Kawashima, “Rehand : Realistic Electric Prosthetic Hand Created with a 3D Printer,” pp. 2470–2473, 2015. doi: 1023388/11-3336/66/012.

~Halaman ini sengaja dikosongkan~