

## DAFTAR PUSTAKA

- [1] World Health Organisation and International Society for Prosthetics and Orthotics, “Guidelines for training personnel in developing countries for prosthetics and orthotics services,” *WHO Libr. Cat. Data*, pp. 1–57, 2005, [Online]. Available: <http://apps.who.int/iris/bitstream/10665/43127/1/9241592672.pdf>
- [2] J. Cabibihan, S. Member, M. K. Abubasha, and N. Thakor, “A Method for 3D Printing Patient-Specific Prosthetic Arms with High Accuracy Shape and Size,” vol. 3536, no. c, pp. 1–10, 2018, doi: 10.1109/ACCESS.2018.2825224.
- [3] A. D. M. Surachman, M. Ramdhani, R. Nugraha, and S. Pd, “DESIGN AND IMPLEMENTATION OF ROBOTIC ARM BASED ELECTROMYOGRAM FOR HANDICAPPED,” vol. 4, no. 2, pp. 1572–1579, 2017.
- [4] M. M. Fuad, D. Deb, and J. Etim, “An Evidence Based Learning and Teaching Strategy for

Computer Science Classrooms and Its Extension into a Mobile Classroom Response System,” in *2014 IEEE 14th International Conference on Advanced Learning Technologies*, Jul. 2014, pp. 149–153. doi: 10.1109/ICALT.2014.52.

- [5] R. Ahmed, “Prosthetic Arm Control Using Electromyography (EMG) Signal,” *2018 Int. Conf. Adv. Electr. Electron. Eng.*, pp. 1–4, 2018.
- [6] D. Brunelli, S. Member, E. Farella, D. Giovanelli, B. Milosevic, and I. Minakov, “Design Considerations for Wireless Acquisition of Multichannel sEMG Signals in Prosthetic Hand Control,” no. c, pp. 1–10, 2016, doi: 10.1109/JSEN.2016.2596712.
- [7] M. H. Hamdan, M. A. A. Basir, M. Q. S. Bahari, S. F. Ramle, D. Albitar, and R. Jailani, “Android Based Control System for Prosthetic Hand,” no. Cspa, pp. 28–29, 2020.
- [8] R. N. Scott, “Myoelectric Control of Prostheses and Orthoses,” *Bull. Prosthet. Res.*, vol. 7, p. 93, 1967,

[Online]. Available:  
<http://www.rehab.research.va.gov/jour/67/4/1/93.pdf>

- [9] T. J. Bates, J. R. Fergason, and S. N. Pierrie, “Technological Advances in Prosthesis Design and Rehabilitation Following Upper Extremity Limb Loss,” *Curr. Rev. Musculoskelet. Med.*, vol. 13, no. 4, pp. 485–493, 2020, doi: 10.1007/s12178-020-09656-6.
- [10] E. A. Biddiss and T. T. Chau, “Upper limb prosthesis use and abandonment,” *Prosthetics Orthot. Int.*, vol. 31, no. 3, pp. 236–257, Sep. 2007, doi: 10.1080/03093640600994581.
- [11] D. Farina *et al.*, “The Extraction of Neural Information from the Surface EMG for the Control of Upper-Limb Prostheses : Emerging Avenues and Challenges,” vol. 22, no. 4, pp. 797–809, 2014.
- [12] J. He, X. Sheng, D. Zhang, and X. Zhu, “Effects of contraction path and velocity on the coordination of hand muscles during a three-digit force production

task,” *2014 36th Annu. Int. Conf. IEEE Eng. Med. Biol. Soc. EMBC 2014*, pp. 5864–5867, 2014, doi: 10.1109/EMBC.2014.6944962.

- [13] A. Phinyomark, C. Limsakul, and P. Phukpattaranont, “Application of wavelet analysis in EMG feature extraction for pattern classification,” *Meas. Sci. Rev.*, vol. 11, no. 2, pp. 45–52, 2011, doi: 10.2478/v10048-011-0009-y.
- [14] M. Snajdarova, J. Barabas, R. Radil, and O. Hock, “Proof of concept EMG-Controlled prosthetic hand system - An overview,” in *Proceedings of 2018 19th International Conference Computational Problems of Electrical Engineering, CPEE 2018*, 2018, pp. 1–4. doi: 10.1109/CPEE.2018.8506896.
- [15] J. Wang, Y. Dai, and X. Si, “Classification and Regression of Muscle Neural Signals on Human Lower Extremities via BP\_AdaBoost,” *Appl. Sci.*, vol. 12, no. 12, 2022, doi: 10.3390/app12125830.
- [16] A. Dementyev, S. Hodges, S. Taylor, and J. Smith, “Power consumption analysis of Bluetooth Low

Energy, ZigBee and ANT sensor nodes in a cyclic sleep scenario,” *2013 IEEE Int. Wirel. Symp. IWS 2013*, pp. 2–5, 2013, doi: 10.1109/IEEE-IWS.2013.6616827.

- [17] R. D. Lipschutz, B. Lock, J. Sensinger, A. E. Schultz, and T. A. Kuiken, “Use of two-axis joystick for control of externally powered shoulder disarticulation prostheses,” *J. Rehabil. Res. Dev.*, vol. 48, no. 6, p. 661, 2011, doi: 10.1682/JRRD.2010.04.0072.
- [18] R. S. Khandpur, *Biomedical Instrumentation*. 2003.
- [19] P. R. Manual, “Arduino ® Nano 33 BLE Sense Target areas : Arduino ® Nano 33 BLE Sense,” 2023.
- [20] A. Kurniawan, *IoT Projects with Arduino Nano 33 BLE Sense*. Depok, Indonesia: Apress®, 2021. doi: 10.1007/978-1-4842-6458-4.
- [21] A. Pradhan, J. He, and N. Jiang, “Multi-day dataset of forearm and wrist electromyogram for hand

gesture recognition and biometrics,” *Sci. Data*, vol. 9, no. 1, p. 733, Nov. 2022, doi: 10.1038/s41597-022-01836-y.

- [22] J. Perfecto R. Ruaya, “Smart Lock Technology: Developing and Enhancing Home Security using Android-Based Controlled Door Locking App’s,” *Int. J. Adv. Res. Sci. Commun. Technol.*, pp. 538–547, Jul. 2023, doi: 10.48175/IJARSCT-12176.
- [23] I. K. C. Arta, I. K. A. H. Anggara, A. Febriyanto, I. M. Budiada, I. N. Sukarma, and A. A. N. G. Sapteka, “Advanced Fire & Gas Safety Control Berbasis IoT,” *Maj. Ilm. Teknol. Elektro*, vol. 21, no. 2, p. 179, Dec. 2022, doi: 10.24843/MITE.2022.v21i02.P04.
- [24] R. Dimas, F. F. M, R. Ramalan, and R. I. Subagja, “Creating an Android-Based Early Childhood Education Application Using App Inventor Kodular,” *Electron. Business, Manag. Technol. J.*, vol. 1, no. 2, pp. 94–105, Jan. 2024, doi: 10.55208/ebmtj.v1i2.113.

- [25] R. Apoorv and P. Mathur, “Smart attendance management using Bluetooth Low Energy and Android,” in *2016 IEEE Region 10 Conference (TENCON)*, Nov. 2016, pp. 1048–1052. doi: 10.1109/TENCON.2016.7848166.
- [26] C. Zuo, H. Wen, Z. Lin, and Y. Zhang, “Automatic Fingerprinting of Vulnerable BLE IoT Devices with Static UUIDs from Mobile Apps,” in *Proceedings of the 2019 ACM SIGSAC Conference on Computer and Communications Security*, Nov. 2019, pp. 1469–1483. doi: 10.1145/3319535.3354240.
- [27] E. Aïmeur, U. Ruhi, and M. Weiss, *E-Technologies: Embracing the Internet of Things*, vol. 289. Cham: Springer International Publishing, 2017. doi: 10.1007/978-3-319-59041-7.
- [28] J. Siva, J. Yang, and C. Poellabauer, “Connectionless BLE Performance Evaluation on Smartphones,” *Procedia Comput. Sci.*, vol. 155, no. 2018, pp. 51–58, 2019, doi: 10.1016/j.procs.2019.08.011.

- [29] S. S. Sandha, J. Noor, F. M. Anwar, and M. Srivastava, “Exploiting Smartphone Peripherals for Precise Time Synchronization,” in *2019 IEEE Global Conference on Signal and Information Processing (GlobalSIP)*, Nov. 2019, pp. 1–6. doi: 10.1109/GlobalSIP45357.2019.8969519.
- [30] J. Furst, K. Chen, H.-S. Kim, and P. Bonnet, “Evaluating Bluetooth Low Energy for IoT,” in *2018 IEEE Workshop on Benchmarking Cyber-Physical Networks and Systems (CPSBench)*, Apr. 2018, pp. 1–6. doi: 10.1109/CPSBench.2018.00007.