

## DAFTAR PUSTAKA

- [1] Y. R. Garda *et al.*, “Flex Sensor Based Biofeedback Monitoring for Post-Stroke Fingers Myopathy Patients,” *J. Phys. Conf. Ser.*, vol. 1007, no. 1, 2018, doi: 10.1088/1742-6596/1007/1/012069.
- [2] F. Aggogeri, T. Mikolajczyk, and J. O’Kane, “Robotics for rehabilitation of hand movement in stroke survivors,” *Adv. Mech. Eng.*, vol. 11, no. 4, pp. 1–14, 2019, doi: 10.1177/1687814019841921.
- [3] Kementerian Kesehatan RI, “Laporan Riskesdas 2018,” *J. Chem. Inf. Model.*, vol. 53, no. 9, pp. 181–222, 2018, [Online]. Available: <http://www.yankes.kemkes.go.id/assets/downloads/PMK No. 57 Tahun 2013 tentang PTRM.pdf>.
- [4] A. Anggriani, Z. Zulkarnain, S. Sulaiman, and R. Gunawan, “PENGARUH ROM (Range of Motion) TERHADAP KEKUATAN OTOT EKSTREMITAS PADA PASIEN STROKE NON HEMORAGIC,” *J. Ris. Hesti Medan Akper Kesdam I/BB Medan*, vol. 3, no. 2, p. 64, 2018, doi: 10.34008/jurhesti.v3i2.46.
- [5] S. W. Pu, J. Y. Chang, Y. C. Pei, C. C. Kuo, and M. J. Wang, “Anthropometry-based structural design of a hand exoskeleton for rehabilitation,” *M2VIP 2016 - Proc. 23rd Int. Conf. Mechatronics Mach. Vis. Pract.*, 2017, doi: 10.1109/M2VIP.2016.7827282.
- [6] H. Kim *et al.*, “Kinematic data analysis for post-stroke patients following bilateral versus unilateral rehabilitation with an upper limb wearable robotic system,” *IEEE Trans. Neural Syst. Rehabil. Eng.*, vol. 21, no. 2, pp. 153–164, 2013, doi: 10.1109/TNSRE.2012.2207462.

- [7] J. Rosen, D. Milutinović, L. M. Miller, M. Simkins, H. Kim, and Z. Li, *Unilateral and Bilateral Rehabilitation of the Upper Limb Following Stroke via an Exoskeleton*. 2014.
- [8] Y. Huang *et al.*, “A comparison of the rehabilitation effectiveness of neuromuscular electrical stimulation robotic hand training and pure robotic hand training after stroke: A randomized controlled trial,” *Biomed. Signal Process. Control*, vol. 56, p. 101723, 2020, doi: 10.1016/j.bspc.2019.101723.
- [9] D. Leonardis *et al.*, “An EMG-controlled robotic hand exoskeleton for bilateral rehabilitation,” *IEEE Trans. Haptics*, vol. 8, no. 2, pp. 140–151, 2015, doi: 10.1109/TOH.2015.2417570.
- [10] J. A. Díez, A. Blanco, J. M. Catalán, F. J. Badesa, L. D. Lledó, and N. García-Aracil, “Hand exoskeleton for rehabilitation therapies with integrated optical force sensor,” *Adv. Mech. Eng.*, vol. 10, no. 2, pp. 1–11, 2018, doi: 10.1177/1687814017753881.
- [11] T. Triwiyanto, O. Wahyunggoro, H. A. Nugroho, and H. Herianto, “Muscle fatigue compensation of the electromyography signal for elbow joint angle estimation using adaptive feature,” *Comput. Electr. Eng.*, vol. 71, no. July, pp. 284–293, 2018, doi: 10.1016/j.compeleceng.2018.07.026.
- [12] C. J. De Luca, “SURFACE ELECTROMYOGRAPHY: DETECTION AND RECORDING,” *Science (80-. )*, vol. 196, no. 4292, pp. 879–880, 1977, doi: 10.1126/science.196.4292.879.
- [13] R. M. Yasin, A. N. Aziz, and H. Hartono, “Rancang Bangun Sistem Kontrol Berbasis Biopotensial Mata (Studi Kasus : Mengontrol Aplikasi Berbasis Android),”

*J. Teras Fis.*, vol. 1, no. 1, p. 9, 2018, doi: 10.20884/1.jtf.2018.1.1.298.

- [14] I. Hadi, "Rancang bangun filter portable," *J. Teliska*, vol. 4, no. 3, pp. 61–67, 2012.
- [15] A. I. F. Dwi, "Klasifikasi Sinyal Emg Dari Otot Lengan Sebagai Media Kontrol Menggunakan Naïve Bayes," *Inst. Teknol. Sepuluh Nop.*, p. 16, 2017.
- [16] Martini, Nath, and Bartholomew, *Fundamentals of Anatomy & Physiology*. 2015.
- [17] Indrawati, "Pengaruh Kombinasi Terapi Latihan Range of Motion, genggam bola karet dan kompres hangat terhadap kekuatan motorik ekstremitas atas dan kadar kortisol pada Klien Pasca Stroke di RSUD Dr Wahidin Sudiro Husodo Mojokerto," *Repos. Unair*, 2018.
- [18] N. M. Massy-Westropp, T. K. Gill, A. W. Taylor, R. W. Bohannon, and C. L. Hill, "Hand Grip Strength: Age and gender stratified normative data in a population-based study," *BMC Res. Notes*, vol. 4, no. 1, p. 127, 2011, doi: 10.1186/1756-0500-4-127.
- [19] J. Rosen and J. C. Perry, "Upper limb powered exoskeleton," *Int. J. Humanoid Robot.*, vol. 4, no. 3, pp. 529–548, 2007, doi: 10.1142/S021984360700114X.
- [20] A. A. Blank, J. A. French, A. U. Pehlivan, and M. K. O'Malley, "Current Trends in Robot-Assisted Upper-Limb Stroke Rehabilitation: Promoting Patient Engagement in Therapy," *Curr. Phys. Med. Rehabil. Reports*, vol. 2, no. 3, pp. 184–195, 2014, doi: 10.1007/s40141-014-0056-z.
- [21] J. B. Rowe, V. Chan, M. L. Ingemanson, S. C. Cramer, E. T. Wolbrecht, and D. J. Reinkensmeyer, "Robotic

Assistance for Training Finger Movement Using a Hebbian Model: A Randomized Controlled Trial,” *Neurorehabil. Neural Repair*, vol. 31, no. 8, pp. 769–780, 2017, doi: 10.1177/1545968317721975.

- [22] L. Louis, “Working Principle of Arduino and Using it as a Tool for Study and Research,” *Int. J. Control. Autom. Commun. Syst.*, vol. 1, no. 2, pp. 21–29, 2016, doi: 10.5121/ijcacs.2016.1203.
- [23] M. Banzi and M. Shiloh, *Make: Getting started with Arduino*. 2014.
- [24] P. Category and P. Name, “Datasheet Arduino Nano Arduino Nano Pin Configuration Arduino Nano Technical Specifications,” pp. 38–45.
- [25] A. Zainuri, U. Wibawa, and E. Maulana, “Implementasi Bluetooth HC – 05 untuk Memperbarui Informasi Pada Perangkat Running Text Berbasis Android,” *Eeccis*, vol. 9, no. 2, pp. 164–165, 2015.
- [26] DFRobot, “Analog EMG Sensor by OYMotion SKU : SEN0240,” 2017, [Online]. Available: [https://media.digikey.com/pdf/Data\\_Sheets/DFRobot\\_PDFs/SEN0240\\_Web.pdf](https://media.digikey.com/pdf/Data_Sheets/DFRobot_PDFs/SEN0240_Web.pdf).
- [27] T. Pro, “MG996R High Torque Metal Gear Dual Ball Bearing Servo,” *Electonic Caldas*, no. 6 V, pp. 1–10, 2015.
- [28] Componente, “2010-10-26-DataSheet-FSR400-Layout2[1].pdf,” pp. 1–4, 10AD.