

DAFTAR PUSTAKA

- [1] S. R. Syareza, R. Oktiasari, P. Madona, E. Susianti, and M. Sahar, “Alat Bantu Terapi Pasca Stroke untuk Tangan,” *J. Elektro dan Mesin Terap.*, vol. 4, no. 1, pp. 27–36, 2018, doi: 10.35143/elementer.v4i1.1422.
- [2] N. Permatasari, “Perbandingan Stroke Non Hemoragik dengan Gangguan Motorik Pasien Memiliki Faktor Resiko Diabetes Melitus dan Hipertensi,” *J. Ilm. Kesehat. Sandi Husada*, vol. 11, no. 1, pp. 298–304, 2020, doi: 10.35816/jiskh.v11i1.273.
- [3] Kemenkes RI, *Hasil Riset Kesehatan Dasar Tahun 2018*, vol. 53, no. 9. 2018.
- [4] L. Patricia, *Fundamentals of nursing sandards & praktice*. 2011.
- [5] Y. Ganesan, S. Gobee, and V. Durairajah, “Development of an Upper Limb Exoskeleton for Rehabilitation with Feedback from EMG and IMU Sensor,” *Procedia Comput. Sci.*, vol. 76, no. Iris, pp. 53–59, 2015, doi: 10.1016/j.procs.2015.12.275.
- [6] R. A. R. C. Gopura, K. Kiguchi, and Y. Yi,

- “SUEFUL-7: A 7DOF upper-limb exoskeleton robot with muscle-model-oriented EMG-based control,” in *2009 IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS 2009*, 2009, no. November, pp. 1126–1131, doi: 10.1109/IROS.2009.5353935.
- [7] B. Beigzadeh, M. Ilami, and S. Najafian, “Design and development of one degree of freedom upper limb exoskeleton,” in *International Conference on Robotics and Mechatronics, ICROM 2015*, 2015, pp. 223–228, doi: 10.1109/ICRoM.2015.7367788.
- [8] 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.
- [9] T. Lenzi, S. M. M. De Rossi, N. Vitiello, and M. C. Carrozza, “Proportional EMG control for upper-limb powered exoskeletons,” in *Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS*, 2011, no. August, pp. 628–631, doi: 10.1109/IEMBS.2011.6090139.
- [10] Y. Bouteraa, I. Ben Abdallah, and A. Elmogy,

- “Design and control of an exoskeleton robot with EMG-driven electrical stimulation for upper limb rehabilitation,” *Ind. Robot Int. J. ofrobotics Res. Appl.*, vol. 47, no. 4, pp. 489–501, 2020, doi: 10.1108/IR-02-2020-0041.
- [11] L. D. L. da Silva, T. F. Pereira, V. R. Q. Leithardt, L. O. Seman, and C. A. Zeferino, “Hybrid impedance-admittance control for upper limb exoskeleton using electromyography,” *Appl. Sci.*, vol. 10, no. 20, pp. 1–19, 2020, doi: 10.3390/app10207146.
- [12] A. M. Khan, F. Khan, and C. Han, “Estimation of desired motion intention using extreme learning machine for upper limb assist exoskeleton,” in *IEEE/ASME International Conference on Advanced Intelligent Mechatronics, AIM*, 2016, vol. 2016-Sept, pp. 919–923, doi: 10.1109/AIM.2016.7576886.
- [13] M. A. Gull, S. Bai, and T. Bak, “A review on design of upper limb exoskeletons,” *Robotics*, vol. 9, no. 1, pp. 1–35, 2020, doi: 10.3390/robotics9010016.
- [14] E. Trigili *et al.*, “Detection of movement onset

using EMG signals for upper-limb exoskeletons in reaching tasks,” *J. Neuroeng. Rehabil.*, vol. 16, no. 1, pp. 1–16, 2019.

- [15] S. Kudernatsch, C. Wolfe, H. Ferdowsi, and D. Peterson, “A Machine Learning Approach to Hand-Arm Motion Prediction for Active Upper Extremity Occupational Exoskeleton Devices,” in *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 2020, vol. 64, no. 1, pp. 890–893, doi: 10.1177/1071181320641212.
- [16] A. Devaraj and A. K. Nair, “Hand Gesture Signal Classification using Machine Learning,” in *Proceedings of the 2020 IEEE International Conference on Communication and Signal Processing, ICCSP 2020*, 2020, pp. 390–394, doi: 10.1109/ICCSP48568.2020.9182045.
- [17] M. P. Prof. Dr.dr. James Tangkudung, Sportmed, *Anatomi Movement*. 2016.
- [18] C. J. De Luca, *Surface electromyography: Detection and recording*, vol. 10, no. 2. 2002.
- [19] DFRobot, “Analog EMG Sensor by OYMotion SKU : SEN0240,” 2017.

- [20] A. Nayyar and V. Puri, “Raspberry Pi-A Small , Powerful , Cost Effective and Efficient Form Factor Computer : A Review,” *Int. J. Adv. Res. Comput. Sci. Softw. Eng.*, vol. 5, no. 12, pp. 720–737, 2015.
- [21] A. Mardhatillah, *Perancangan perangkat keras sistem pengendali navigasi pada miniatur mobil pendeteksi marka jalan*. 2017.
- [22] M. Thowil Afif and I. Ayu Putri Pratiwi, “Analisis Perbandingan Baterai Lithium-Ion, Lithium-Polymer, Lead Acid dan Nickel-Metal Hydride pada Penggunaan Mobil Listrik - Review,” *J. Rekayasa Mesin*, vol. 6, no. 2, pp. 95–99, 2015, doi: 10.21776/ub.jrm.2015.006.02.1.
- [23] 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.
- [24] 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.

- [25] A. Phinyomark, P. Phukpattaranont, and C. Limsakul, “Feature reduction and selection for EMG signal classification,” *Expert Syst. Appl.*, vol. 39, no. 8, pp. 7420–7431, 2012, doi: 10.1016/j.eswa.2012.01.102.
- [26] I. Rahayuningsih, A. D. Wibawa, and E. Pramunanto, “Klasifikasi Bahasa Isyarat Indonesia Berbasis Sinyal EMG Menggunakan Fitur Time Domain (MAV, RMS, VAR, SSD),” *J. Tek. ITS*, vol. 7, no. 1, 2018, doi: 10.12962/j23373539.v7i1.29967.
- [27] A. Ahmad Hania, “Mengenal Artificial Intelligence, Machine Learning, & Deep Learning,” *J. Teknol. Indones.*, no. June, 2017, [Online]. Available: <https://amt-it.com/mengenal-perbedaan-artificial-intelligence-machine-learning-deep-learning/>.
- [28] I. Muhammad and Z. Yan, “Supervised Machine Learning Approaches: a Survey,” *ICTACT J. Soft Comput.*, vol. 05, no. 03, pp. 946–952, 2015, doi: 10.21917/ijsc.2015.0133.
- [29] K. S. Priya, “Linear Regression Algorithm in

Machine Learning through MATLAB,” *Int. J. Res. Appl. Sci. Eng. Technol.*, vol. 9, no. 12, pp. 989–995, 2021, doi: 10.22214/ijraset.2021.39410.

- [30] F. Sodik, B. Dwi, and I. Kharisudin, “Perbandingan Metode Klasifikasi Supervised Learning pada Data Bank Customers Menggunakan Python,” *J. Mat.*, vol. 3, pp. 689–694, 2020.
- [31] A. Cutler, D. R. Cutler, and J. R. Stevens, “Ensemble Machine Learning,” in *Ensemble Machine Learning*, no. January, 2011, pp. 157–176.