

DAFTAR PUSTAKA

- [1] Presiden Republik Indonesia, *Undang-Undang Republik Indonesia Nomor 8 Tahun 2016 tentang Penyandang Disabilitas*. Jakarta, Indonesia: 2016.
- [2] Direktorat Analisis dan Pengembangan Statistik, *Analisis Tematik Kependudukan Indonesia: Fertilitas Remaja, Kematian Maternal, Kematian Bayi, dan Penyandang Disabilitas*. Jakarta: Badan Pusat Statistik, 2023.
- [3] H. Haryanto dan S. Hidayat, "Perancangan HMI (Human Machine Interface) Untuk Pengendalian Kecepatan Motor DC," *SETRUM*, vol. 1, no. 2, 2012.
- [4] A. Hartman and V. K. Nandikolla, "Human-Machine Interface for a Smart Wheelchair," *Journal of Robotics*, 2019, doi: 10.1155/2019/4837058.
- [5] A. K. Ridia, A. Hidayat, dan Derisma, "Penerapan Metode Fuzzy Logic Pada Kursi Roda Elektrik Dengan Kendali Suara," *Seminar Nasional Sains dan Teknologi*, 2017.
- [6] T. A. Angwyn dan Thiang, "Kontrol Miniatur Kursi Roda Dengan Perintah Suara Berbasis Voice Recognition Module," *Jurnal Teknik Elektro*, vol. 16, no. 2, 2023.
- [7] R. Barea, L. Boquete, S. Ortega, dan E. López, "EOG-based eye movements codification for human-computer interaction," *Expert Syst. Appl.*, vol. 39, no. 3, pp. 2677–2683, 2012, doi: 10.1016/j.eswa.2011.08.123.
- [8] Q. Huang *et al.*, "An EOG-based human-machine interface for wheelchair control," *IEEE Trans. Biomed. Eng.*, vol. 9294, no. c, pp. 1–11, 2017, doi: 10.1109/TBME.2017.2732479.
- [9] F. Bhuyain dan K. M. Salim, "Design and development of an EOG-based system to control electric wheelchair for people suffering from quadriplegia or quadriparesis," in *2019 International Conference on Robotics, Electrical and Signal Processing Techniques (ICREST)*, pp. 460–465, 2019.
- [10] A. N. Rajesh, S. Chandralingam, T. Anjaneyulu, dan K. Satyanarayana, "EOG controlled motorized wheelchair for disabled persons," *Int. Scholarly Sci. Res. Innov.*, vol. 8, no. 5, pp. 302–305, 2014.
- [11] R. Z. Marandi, P. Madeleine, Ø. Omland, N. Vuillerme, dan A. Samani, "Eye movement characteristics reflected fatigue development in both young and elderly individuals," *Sci Rep*, hlm. 1–10, 2018, doi: 10.1038/s41598-018-31577-1.
- [12] F. Fityah, "Perancangan sistem On/Off pada kursi roda EOG untuk menghindari kesalahan navigasi akibat mata lelah menggunakan metode jaringan saraf tiruan," Skripsi, Universitas Andalas, 2021..
- [13] M. A. Rahman, "Perancangan sistem On/Off kursi roda menggunakan sensor electrooculography untuk menghindari kelelahan pada mata dengan metode Support Vector Machine," Skripsi, Universitas Andalas, 2022.

- [14] A. Akbar, G. Abdel, N. Masikki, A. N. Aliansyah, dan N. Z. D. L. Mulyawati, "Perancangan Sistem Monitoring Navigasi Kursi Roda Berbasis Mikrokontroler," *Jurnal Teknik Elektro dan Vokasional*, vol. 7, no. 1, hlm. 45–52, 2021.
- [15] S. Annirohman, F. D. Puspitarini, dan D. Natalia, "Rancangan Kursi Roda Elektrik Dengan Remot Dan Tuas," *Jurnal Teknik*, vol. 12, no. 01, hlm. 89–98, 2023.
- [16] M. A. Nursasongko, I. A. E. Zaeni, dan A. N. Handayani, "Kendali Model Kursi Roda dengan Electromyograf dan Accelerometer Menggunakan Metode Jaringan Saraf Tiruan," *ALINIER JURNAL*, vol. 1, no. 2, 2020.
- [17] P. Farastya, "7 ragam kursi roda, unik dan bermanfaat untuk segala kondisi," *Medicalogy*, [Daring]. Tersedia pada: <https://www.medicalogy.com/blog/7-ragam-kursi-roda-unik-dan-bermanfaat-untuk-segala-kondisi/>. Diakses: 15 Feb. 2025.
- [18] F. Fahrozi, "Perancangan Pengontrol Otomatis dan Pengatur Posisi Tempat Duduk pada Kursi," *JURNAL PERANCANGAN, MANUFAKTUR, MATERIAL, DAN ENERGI*, vol. 2, no. 1, hlm. 45–52, 2020.
- [19] N. Muthmainnah, M. Noor, dan M. Qawiem, "Study the different level of eye movement based on Electrooculography (EOG) technique," in *Proc. IEEE Conf. on Biomedical Engineering and Sciences (IECBES)*, pp. 792–796, 2016, doi: 10.1109/IECBES.2016.7843559.
- [20] A. López, M. Fernández, H. Rodríguez, dan F. Ferrero, "Development of an EOG-based system to control a serious game," *Measurement*, vol. 127, pp. 481–488, Apr. 2018, doi: 10.1016/j.measurement.2018.06.023.
- [21] A. Bulling, J. A. Ward, H. Gellersen, dan G. Tröster, "Eye movement analysis for activity recognition using electrooculography," *IEEE Trans. Pattern Anal. Mach. Intell.*, vol. 33, no. 4, pp. 741–753, Apr. 2011, doi: 10.1109/TPAMI.2010.86.
- [22] L. R. Sullivan, "Technical Tips : Eye Movement Monitoring," *American Journal of EEG Technology ISSN:*, vol. 33, no. 2, hlm. 135–147, 2016.
- [23] M. R. Kim dan G. Yoon, "Control Signal from EOG Analysis and Its Application," *International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering*, vol. 7, no. 10, hlm. 1352–1355, 2013.
- [24] M. I. Rusydi, M. Sasaki, dan S. Ito, "Affine transform to reform pixel coordinates of EOG signals for controlling robot manipulators using gaze motions," *Sensors (Switzerland)*, vol. 14, no. 6, hlm. 10107–10123, 2014, doi: 10.3390/s140610107.
- [25] M. Merino, O. Rivera, I. Gómez, A. Molina, dan E. Dorronzoro, "2010 First International Conference on Sensor Device Technologies and Applications A Method of EOG Signal Processing to Detect the Direction of Eye

- Movements,” *SENSORDEVICES*, 2010, doi: 10.1109/SENSORDEVICES.2010.25.
- [26] A. López, F. Ferrero, dan O. Postolache, “High-Performance Analog Front-End (AFE) for EOG Systems,” *Electronics (Basel)*, vol. 9, no. 970, hlm. 1–15, 2020.
- [27] A. Fauzan dan U. T. Madura, “Peran Penting Sensor dan Aktuator Dalam Biomedik Serta Perancangan Elektromiografi (EMG) Untuk Mendeteksi Aktivitas Listrik Pada Otot Manusia,” *Seminar Nasional Fortei*, vol. 7, no. 4, hlm. 602–609, 2021.
- [28] J. D. Bronzino, *The Biomedical Engineering Handbook-Medical Devices and Systems*, Third Edit. London: CRC Press Taylor & Francis Group, 2006.
- [29] F. Florentinus dan B. Setiawan, “Pengukuran Kekuatan Kontraksi Otot Pada Bagian Torso Tubuh Menggunakan Sensor Elektromiografi,” *Seminar Nasional Instrumentasi, Kontrol dan Otomasi (SNIKO)*, hlm. 10–11, 2018.
- [30] Z. Arifin, “Biopotensial Elektroda di Bidang Medis,” *Majalah Kedokteran Nusantara*, vol. 38, no. 2, hlm. 195–198, 2005.
- [31] Ambu, *Ambu® Cardiology Sensors, Ambu® Electrodes, Ambu® BlueSensor Electrodes*, 2022. [Datasheet]. [Daring]. Tersedia pada: <https://www.ambu.com/cardiology/clinical-evidence/ambu-bluesensor-ecg-electrodes>. Diakses: 15 Feb. 2025.
- [32] W. S. Sanjaya, D. Anggraeni, R. Multajam, M. N. Subkhi, dan I. Muttaqien, “Design and Experiment of Electrooculogram (EOG) System and Its Application to Control Mobile Robot,” *IOP Conf Ser Mater Sci Eng*, 2017, doi: 10.1088/1742-6596/755/1/011001.
- [33] “AD620 Datasheet (PDF) - Analog Devices,” *AllDatasheet*. [Daring]. Tersedia pada: <https://www.alldatasheet.com/datasheet-pdf/pdf/48090/AD/AD620.html>. Diakses: 15 Feb. 2025.
- [34] “LM324 Datasheet (PDF) - First Components International,” *AllDatasheet*, [Daring]. Tersedia pada: <https://pdf1.alldatasheet.com/datasheet-pdf/view/210028/FCI/LM324.html>. Diakses: 15 Feb. 2025.
- [35] D. Kho, “Pengertian Band Pass Filter (BPF) atau tapis lolos antara,” *Teknik Elektronika*, [Daring]. Tersedia pada: <https://teknikelektronika.com/pengertian-band-pass-filter-bpf-tapis-lolos-antara/>. Diakses: 15 Feb. 2025.
- [36] M. Sasaki, M. S. A. Bin Suhaimi, K. Matsushita, S. Ito, dan M. I. Rusydi, “Robot Control System Based on Electrooculography and Electromyogram,” *Journal of Computer and Communications*, vol. 03, no. 11, hlm. 113–120, 2015, doi: 10.4236/jcc.2015.311018.
- [37] M. I. Rusydi, T. Okamoto, S. Ito, dan M. Sasaki, “Rotation Matrix to Operate a Robot Manipulator for 2D Analog Tracking Objects Using Electrooculography,” *Robotics*, vol. 3, hlm. 289–309, 2014, doi: 10.3390/robotics3030289.

- [38] M. SASAKI, S. ITO, K. TAKEDA, T. OKAMOTO, dan M. I. RUSYDI, "Developing a two-link robot arm controller using voluntary blink.," *Journal of the Japan Society of Applied Electromagnetics and Mechanics*, vol. 22, no. 4, hlm. 475–481, 2014, doi: 10.14243/jsaem.22.475.
- [39] S. N. Abbas, "Eye Blinking EOG Signals as Biometrics," *Biometric Security and Privacy, Signal Processing for Security Technologies*, 2017, doi: 10.1007/978-3-319-47301-7.
- [40] D. Satria, "Perbandingan Metode Ekstraksi Ciri Histogram dan PCA untuk Mendeteksi Stoma pada Citra Penampang Daun Freycinetia Comparison of Histogram and PCA as Feature Extraction Methods in Detecting Stoma in Freycinetia Leaf Images Abstrak," vol. 2, hlm. 20–28.
- [41] M. I. Rusydi, M. Bahri, R. S. Ryaldi, F. Akbar, K. Matsuhita, dan M. Sasaki, "Recognition of horizontal gaze motion based on electrooculography using tsugeno fuzzy logic," *IOP Conf Ser Mater Sci Eng*, vol. 602, no. 1, 2019, doi: 10.1088/1757-899X/602/1/012029.
- [42] National Instruments, *USB-6008 Multifunction I/O Device*, [Datasheet]. [Daring]. Tersedia pada: <https://www.ni.com/en-id/support/model.usb-6008.html>. Diakses: 15 Februari 2025.
- [43] TechTeach, *A Quick Guide to National Instruments USB-6008*, [Daring]. Tersedia pada: <http://techt teach.no/tek dok/usb6008/>. Diakses: 15 Februari 2025.
- [44] P. Bimo, N. Setio, D. Retno, S. Saputro, dan B. Winarno, "Klasifikasi dengan Pohon Keputusan Berbasis Algoritme," *PRISMA*, vol. 3, hlm. 64–71, 2020.
- [45] A. R. Khadafy, "Penerapan Naive Bayes untuk Mengurangi Data Noise pada Klasifikasi Multi Kelas dengan Decision Tree," *Journal of Intelligent Systems*, vol. 1, no. 2, 2015.
- [46] J. Han, M. Kamber, dan J. Pei, *Data Mining-Concepts and Techniques*, Third Edit. United States: Elsevier Inc, 2012.
- [47] "Decision tree," GeeksforGeeks. Diakses: 27 November 2023. [Daring]. Tersedia pada: <https://www.geeksforgeeks.org/decision-tree/>
- [48] S. Febriani dan H. Sulistiani, "Analisis Data Hasil Diagnosa Untuk Klasifikasi Gangguan Kepribadian Menggunakan Algoritma C4.5," *Jurnal Teknologi dan Sistem Informasi* (, vol. 2, no. 4, hlm. 89–95, 2021.
- [49] A. C. Vayuanita, "Algoritma C4.5 With R," rpubs.com. Diakses: 27 November 2023. [Daring]. Tersedia pada: <https://rpubs.com/Ardila/C45>
- [50] M. Yildiz and H. Ö. Ülkütaş, "A new PC-based text entry system based on EOG coding," *Adv. Hum.-Comput. Interact.*, vol. 2018, Art. no. 8528176, Aug. 2018, doi: 10.1155/2018/8528176.
- [51] R. Zhao, J. Lu, Y. Xiao, X. Liu, Y. Wang, and G. Xu, "Effects of gaze stabilization exercises on gait, plantar pressure, and balance function in post-stroke patients: A randomized controlled trial," *Brain Sci.*, vol. 12, no. 12, p. 1694, Dec. 2022, doi: 10.3390/brainsci12121694.

- [52] X. Cai and J. Pan, "Toward a brain-computer interface- and Internet of Things-based smart ward collaborative system using hybrid signals," *J. Healthc. Eng.*, vol. 2022, Art. no. 6894392, Apr. 2022, doi: 10.1155/2022/6894392.

