DAFTAR PUSTAKA

[1] D. I. M. Raya, "Masalah Disabilitas Dan Sosial Kemasyarakatan," Sapa: Jurnal Kateketik dan Pastoral 1.2 (2018): 53-64.

[2] C. G. Pinheiro, E. L. M. Naves, P. Pino, E. Losson, A. O. Andrade, and G. Bourhis, "Alternative communication systems for people with severe motor disabilities: A survey," *Biomed. Eng. Online*, vol. 10, pp. 1–28, 2020, doi: 10.1186/1475-925X-10-31.

[3] S. A. Prahara, "Peningkatan Perekonomian Komunitas Difabel Gumregah Yogyakarta Melalui Pelatihan Ekonomi Kreatif," *Din. J. Pengabdi. Kpd. Masy.*, vol. 7, no. 3, pp. 657–664, 2023, doi: 10.31849/dinamisia.v7i3.14356.

[4] I. Dasar, "Disabilitas di Indonesia," NUSANTARA: Jurnal Ilmu Pengetahuan Sosial 9.3 (2022): 807-812.

[5] V. Kumar A, "Comparative study of third-party disability between mothers of children using hearing aids and those using cochlear implants," *J. Otolaryngol. Res.*, vol. 15, no. 1, pp. 48–55, 2023, doi: 10.15406/joentr.2023.15.00527.

[6] F. M. Z. van den Heiligenberg, N. Yeung, P. Brugger, J. C. Culham, and T. R. Makin, "Adaptable Categorization of Hands and Tools in Prosthesis Users," *Psychol. Sci.*, vol. 28, no. 3, pp. 395–398, 2018, doi: 10.1177/0956797616685869.

[7] Y.-L. Cheng *et al.*, "*We are IntechOpen, the world 's leading publisher of Open Access books Built by scientists, for scientists TOP 1 %*," *Intech*, vol. 11, no. tourism, p. 13, 2019, [Online]. Available: https://www.intechopen.com/books/advanced-biometric-technologies/liveness-detection-in-biometrics

[8] N. Nasri *et al.*, "Assistive Robot with an AI-Based Application for the Reinforcement of Activities of Daily Living: Technical Validation with Users Affected by Neurodevelopmental Disorders," *Appl. Sci.*, vol. 12, no. 19, pp. 1–20, 2022, doi: 10.3390/app12199566.

[9] Y. Wang, "Design of an Effective Prosthetic Hand System for Adaptive Grasping with the Control of Myoelectric Pattern Recognition Approach," *Micromachines*, vol. 13, no. 2, 2022, doi: 10.3390/mi13020219.

[10] Y. Kamran, "International Journal of Engineering and Technology," *ResearGate*, vol. 3, p. 8613, 2012.

[11] T. OKAMOTO, "Using gaze point estimation and blink detection, to control robot arm by use of the EOG signal," *J. Japan Soc. Appl. Electromagn. Mech.*, vol. 22, no. 2, pp. 312–317, 2018, doi: 10.14243/jsaem.22.312.

[12] S. Fukushima, "Development of haptic prosthetic hand for realization of intuitive operation," *IECON Proc. (Industrial Electron. Conf.*, no. July, pp.

6403–6408, 2016, doi: 10.1109/IECON.2016.7793456.

[13] I. Agustian, “Robot Manipulator Control with Inverse Kinematics PD-Pseudoinverse Jacobian and Forward Kinematics Denavit Hartenberg,” *J. Elektron. dan Telekomun.*, vol. 21, no. 1, p. 8, 2021, doi: 10.14203/jet.v21.8-18.

[14] A. S. Arisandi, “Rancang Bangun Robot Lengan Pemindah Barang 3 DOF Menggunakan Metode Inverse Kinematics Berbasis Android,” *Elektr. Borneo*, vol. 6, no. 2, pp. 35–41, 2020, doi: 10.35334/jeb.v6i2.1558.

[15] A. D. Setiyadi, I. Setiawan, and H. Afrisal, “Perancangan Dan Pengendalian Manipulator Robot 4-Dof Dengan Gripper Berbasis Inverse Kinematics Dan Trajectory Planning Dengan Ros,” *Transient J. Ilm. Tek. Elektro*, vol. 10, no. 4, pp. 552–558, 2021, doi: 10.14710/transient.v10i4.552-558.

[16] M. H. Sani, “A Novel Design of Heterojunction Double Ferroelectric MOSFET (HDF-MOSFET) with Steep Subthreshold Slope and High Ion/Ioff Current Ratio,” *J. Robot. Autom. Res.*, vol. 3, no. 2, pp. 235–241, 2022, doi: 10.33140/jrar.03.02.11.

[17] A. Widyacandra, “Forward and inverse kinematics modeling of 3-DoF AX-12A robotic manipulator,” *JITEL (Jurnal Ilm. Telekomun. Elektron. dan List. Tenaga)*, vol. 2, no. 2, pp. 139–150, 2022, doi: 10.35313/jitel.v2.i2.2022.139-150.

[18] A. L. C. Bissoli, “Using sEMG, EOG and VOG to Control an Intelligent Environment,” *IFAC-PapersOnLine*, vol. 49, no. 30, pp. 210–215, 2016, doi: 10.1016/j.ifacol.2016.11.169.

[19] E. Iáñez, “Assistive robot application based on an RFID control architecture and a wireless EOG interface,” *Rob. Auton. Syst.*, vol. 60, no. 8, pp. 1069–1077, 2012, doi: 10.1016/j.robot.2012.05.006.

[20] K. Sakurai “Gaze Estimation Method Using Analysis of Electrooculogram Signals and Kinect Sensor,” *Comput. Intell. Neurosci.*, vol. 2017, 2017, doi: 10.1155/2017/2074752.

[21] M. Yan, “A study on gaze estimation system using cross-channels electrooculogram signals,” *Lect. Notes Eng. Comput. Sci.*, vol. 2209, no. January, pp. 112–116, 2014.

[22] M. I. Rusydi “Development of an Eog Based Robot Manipulator and End Point Direction Control System,” *J. Japan Soc. Appl. Electromagn. Mech.*, vol. 22, no. 2, pp. 293–299, 2014, doi: 10.14243/jsaem.22.293.

[23] M. Burzotta, “Disability or disabilities : construction of a specific model of stereotypes,” pp. 1–13, 2023.

[24] C. C. By-nc, “Disability, the Communication of Physical Activity and Sedentary Behaviour, and Ableism : A Call for Inclusive Messages . British Journal University of Bristol - Explore Bristol Research,” vol. 55, pp. 1121–1122, 2021.

[25] P. Lansley, “Towards an inclusive society,” *Build. Res. Inf.*, vol. 31, no. 1,

pp. 70–72, 2003, doi: 10.1080/0961321021000036880.
[26] S. G. Postema, “Upper limb absence: Effects on body functions and structures, musculoskeletal complaints, and functional capacity,” 2017.
[27] Kementerian Sosial RI, “Pedoman Operasional Asistensi Rehabilitasi Sosial Penyandang Disabilitas,” *Direktorat Jenderal Rehabil. Sos.*, pp. 1–480, 2021.
[28] Olivia Lukika dkk, “Empati dan Prasangka terhadap Penyandang Disabilitas,” *Keluwih J. Sos. dan Hum.*, vol. 3, no. 2, pp. 68–75, 2022, doi: 10.24123/soshum.v3i2.5350.
[29] M. I. Rusydi, “Calculate Target Position of Object in 3-Dimensional Area Based on the Perceived Locations Using EOG Signals,” *J. Comput. Commun.*, vol. 02, no. 11, pp. 53–60, 2014, doi: 10.4236/jcc.2014.211007.
[30] C. Belkhiria, “EOG-Based Human–Computer Interface: 2000–2020 Review,” pp. 1–19, 2022.
[31] A.U. Baiqi, “Kendali Prototype Kursi Roda Menggunakan Sensor Electrooculography (EOG) Dengan Metode Support Vector Machine,” pp. 1–23, 2016.
[32] F.Fityah, “Perancangan Sistem On/Off Pada Kursi Roda EOG Untuk Menghindari Kesalahan Navigasi Akibat Mata Lelah Menggunakan Metode Jaringan Saraf Tiruan,” vol. 3, no. 2, p. 6, 2021.
[33] K. S. Moon, “A Wireless Electrooculogram (EOG) Wearable Using Conductive Fiber Electrode,” *Electron.*, vol. 12, no. 3, 2023, doi: 10.3390/electronics12030571.
[34] M. I. Rusydi, “Rotation matrix to operate a robot manipulator for 2D analog tracking objects using electrooculography,” *Robotics*, vol. 3, no. 3, pp. 289–309, 2014, doi: 10.3390/robotics3030289.
[35] M. I. Rusydi, “Controlling 3-D movement of robot manipulator using electrooculography,” *Int. J. Electr. Eng. Informatics*, vol. 10, no. 1, pp. 170–185, 2018, doi: 10.15676/ijeei.2018.10.1.12.
[36] R. Candra, “Sistem Pengoperasian Kursi Roda Menggunakan Sensor Electrooculography Dengan Metode Klasifikasi K-Nearest Neighbor,” pp. 53–54, 2018.
[37] S. Sirojuddin, “Rancang Bangun Gripper Robot Manipulator 2 Dof Kapasitas 1,25 Kgf,” *J. Rekayasa Mesin*, vol. 14, no. 1, pp. 23–38, 2023, doi: 10.21776/jrm.v14i1.999.
[38] Z. Fan *et al.*, “A Cartesian-Based Trajectory Optimization with Jerk Constraints for a Robot,” *Entropy*, vol. 25, no. 4, pp. 1–21, 2023, doi: 10.3390/e25040610.
[39] R. Chaturvedi, “Anticipated investigation of a cylindrical robot ARM by means of compound materials,” *Eur J Mol Clin Med*, vol. 7, no. 4, pp. 736–745, 2020.
[40] T. Hu *et al.*, “An MPC-based Optimal Motion Control Framework for

Pendulum-driven Spherical Robots," 2023, [Online]. Available: http://arxiv.org/abs/2302.08932

[41] A. Yun, "Development of a Robot Arm Link System Embedded with a Three-Axis Sensor with a Simple Structure Capable of Excellent External Collision Detection," *Sensors*, vol. 22, no. 3, 2022, doi: 10.3390/s22031222.

[42] S. P. Astuti, "Pengembangan Game Edukasi Fisika Berbasis Matlab pada Pokok Bahasan Kinematika," *SAP (Susunan Artik. Pendidikan)*, vol. 7, no. 3, p. 482, 2023, doi: 10.30998/sap.v7i3.15330.

[43] Z. Wang, "Kinematic Calibration of a Space Manipulator Based on Visual Measurement System with Extended Kalman Filter," *Machines*, vol. 11, no. 3, 2023, doi: 10.3390/machines11030409.

[44] Z. Yin, "A New Solving Method Based on Simulated Annealing Particle Swarm Optimization for the Forward Kinematic Problem of the Stewart–Gough Platform," *Appl. Sci.*, vol. 12, no. 15, 2022, doi: 10.3390/app12157657.

[45] T. Dewi, "Inverse kinematic analysis of 4 DOF pick and place arm robot manipulator using fuzzy logic controller," *Int. J. Electr. Comput. Eng.*, vol. 10, no. 2, pp. 1376–1386, 2020, doi: 10.11591/ijece.v10i2.pp1376-1386.

[46] S. Snir, "Epigenetic pacemaker: Closed-form algebraic solutions," *BMC Genomics*, vol. 21, no. Suppl 2, pp. 1–11, 2020, doi: 10.1186/s12864-020-6606-0.

[47] A. Caboussat, "A Least-Squares Method for the Solution of the Non-smooth Prescribed Jacobian Equation," *J. Sci. Comput.*, vol. 93, no. 1, pp. 1–32, 2022, doi: 10.1007/s10915-022-01968-8.

[48] A. Hvatov and T. Tikhonova, "Automated differential equation solver based on the parametric approximation optimization," 2022, doi: 10.3390/math11081787.

[49] A. U. Darajat, "Inverse Kinematic of 1-DOF Robot Manipulator Using Sparse Identification of Nonlinear System," *INTEK J. Penelit.*, vol. 10, no. 1, p. 22, 2023, doi: 10.31963/intek.v10i1.4202.

[50] P. Vlantis, C. P. Bechlioulis, and K. J. Kyriakopoulos, "Robot Navigation in Complex Workspaces Employing Harmonic Maps and Adaptive Artificial Potential Fields," *Sensors*, vol. 23, no. 9, pp. 1–31, 2023, doi: 10.3390/s23094464.

[51] E. M. Neumannt, "Automation software architectures in automated production systems: an industrial case study in the packaging machine industry," *Prod. Eng.*, vol. 16, no. 6, pp. 847–856, 2022, doi: 10.1007/s11740-022-01133-y.

[52] Fathima Chandhini S,"Extraction of Character from Visuals and Images Using OpenCV," *Int. J. Sci. Res. Comput. Sci. Eng. Inf. Technol.*, vol. 3307, pp. 194–200, 2023, doi: 10.32628/cseit2390363.

[53] S. K. Pietrzykowsk, "Application of the OpenCV library in indoor

hydroponic plantations for automatic height assessment of plants," *J. Autom. Mob. Robot. Intell. Syst.*, vol. 2022, no. 2, pp. 55–63, 2022, doi: 10.14313/JAMRIS/2-2022/16.

[54] U. Sayed,"An Elliptical Boundary Skin Model For Hand Detection Based on HSV Color Space," *Inf. Sci. Lett.*, vol. 7, no. 1, pp. 13–17, 2018, doi: 10.18576/isl/070103.

[55] B. Y. Suprapto, "Road and Vehicles Detection System Using HSV Color Space for Autonomous Vehicle," *J. Ilm. Tek. Elektro Komput. dan Inform.*, vol. 6, no. 1, p. 42, 2020, doi: 10.26555/jiteki.v16i1.16949.

[56] Algebraic, Proceedings of the Conference Held at the Seattle Research Center of Battelle Memorial Institute, August 28-September 8, 1972:" Journal of Research Proceedings. Vol. 342. Springer, 2018.

[57] Y. Perugachi-Diaz, "Region-of-Interest Based Neural Video Compression," *BMVC 2022 - 33rd Br. Mach. Vis. Conf. Proc.*, 2022.

[58] M. Kaneko, "Mask-SLAM: Robust feature-based monocular SLAM by masking using semantic segmentation," *IEEE Comput. Soc. Conf. Comput. Vis. Pattern Recognit. Work.*, vol. 2018-June, pp. 371–379, 2018, doi: 10.1109/CVPRW.2018.00063.

[59] S. Even,"Machine Learning-Driven Burrowing with a Snake-Like Robot," 2023, [Online]. Available: http://arxiv.org/abs/2309.10802

[60] Y. Varthamanan, "Design of Pressurized Water Reactor simulator using USB NI-6009 Data Acquisition module," *Biosci. Biotechnol. Res. Asia*, vol. 13, no. 1, pp. 487–491, 2016, doi: 10.13005/bbra/2059.

[61] N. Instruments, "User Guide And Specifications NI cDAQ-9172," pp. 7–30, 2008, [Online]. Available: http://www.ni.com/pdf/manuals/371747f.pdf

[62] M. Giegrich, R. Oomen, and C. Reisinger, "K-Nearest-Neighbor Resampling for Off-Policy Evaluation in Stochastic Control," 2023, [Online]. Available: http://arxiv.org/abs/2306.04836

[63] M. Pagan, "Investigating the impact of data scaling on the k-nearest neighbor algorithm," *Comput. Sci. Inf. Technol.*, vol. 4, no. 2, pp. 135–142, 2023, doi: 10.11591/csit.v4i2.pp135-142.

[64] M. H. Aljanabi, "A Parallel Approach for Optimizing KNN Classification Algorithm in Big Data," *Al-Salam J. Eng. Technol.*, vol. 2, no. 2, pp. 165–172, 2023, doi: 10.55145/ajest.2023.02.02.019.