

DAFTAR PUSTAKA

- [1] viva budi Kusnandar, "Inilah Proyeksi Jumlah Penduduk Indonesia 2020," *Jakarta*, 2020, [Online]. Available: <https://databoks.katadata.co.id/datapublish/2020/01/02/inilah-proyeksi-jumlah-penduduk-indonesia-2020#>.
- [2] B. P. S.-S. Indonesia, *NERACA ENERGI INDONESIA Indonesian Balance Energy*. Jakarta: Badan Pusat Statistik/BPS-Statistics Indonesia, 2018.
- [3] D. EBTKE, *Renstra (Rencana Strategis) Ditjen EBTKE 2015-2019*. 2014.
- [4] F. Akarslan, "Photovoltaic systems and Applications," *Intech*, vol. i, no. tourism, p. 38, 2012, doi: 10.1016/j.colsurfa.2011.12.014.
- [5] S. Abdallah and S. Nijmeh, "Two axes sun tracking system with PLC kontrol," *Energy Convers. Manag.*, vol. 45, no. 11–12, pp. 1931–1939, 2004, doi: 10.1016/j.enconman.2003.10.007.
- [6] A. Díaz P and R. Garrido-Moctezuma, "Cascade kontrol sistem for high precision solar trackers," *AIP Conf. Proc.*, vol. 1766, no. September, 2016, doi: 10.1063/1.4962098.
- [7] M. J. Clifford and D. Eastwood, "Design of a novel passive solar tracker," *Sol. Energy*, vol. 77, no. 3, pp. 269–280, 2004, doi: 10.1016/j.solener.2004.06.009.
- [8] I. Abadi, A. Musyafa', and A. Soeprijanto, "Type-2 fuzzy logic controller based pv passive two-axis solar tracking sistem," *Int. Rev. Electr. Eng.*, vol. 10, no. 3, pp. 390–398, 2015, doi: 10.15866/iree.v10i3.6090.
- [9] R. Bright, "Basic Photovoltaic Principles and method," *Electron. Prod. (Garden City, New York)*, vol. 50, no. 3, 2008.
- [10] S. Titri, C. Larbes, K. Y. Toumi, and K. Benatchba, "A new MPPT controller based on the Ant colony optimization algorithm for Photovoltaic systems under partial shading conditions," *Applied Soft Computing Journal*, vol. 58, pp. 465–479, 2017, doi: 10.1016/j.asoc.2017.05.017.
- [11] M. H. M. Sidek, N. Azis, W. Z. W. Hasan, M. Z. A. Ab Kadir, S. Shafie, and M. A. M. Radzi, "Automated positioning dual-axis solar tracking

- system with precision elevation and azimuth angle kontrol,” *Energy*, vol. 124, pp. 160–170, 2017, doi: 10.1016/j.energy.2017.02.001.
- [12] A. Isman, “Implementasi Teknik Maximum Power Point Tracking (Mppt) Pada Sistem Penjejak Matahari Berbasis Adaptive Neuro-Fuzzy Inference sistem (Anfis),” pp. 5–7, 2017.
- [13] A. B. Sproul, “Derivation of the solar geometric relationships using vector analysis,” *Renew. Energy*, vol. 32, no. 7, pp. 1187–1205, 2007, doi: 10.1016/j.renene.2006.05.001.
- [14] M. W. Ardiatama and I. Abadi, “Perancangan Sistem Penjejak Matahari Dua Sumbu Dengan Metode Active Tracking Menggunakan Kontrol Fuzzy Tipe-2 Interval,” *J. Tek. ITS*, vol. 7, no. 1, 2018, doi: 10.12962/j.23373539.v7i1.27733.
- [15] Harifuddin, “Pemodelan Dan Pengendalian Motor Dc Terkendali Jangkar,” *Media Elektr.*, vol. 3, no. 1, 2008.
- [16] D. F. Sendoya-Losada, D. F. Murcia, and S. O. García, “Design and implementation of a photovoltaic solar tracker using fuzzy kontrol for Surcolombiana University,” *ARPN J. Eng. Appl. Sci.*, vol. 12, no. 7, pp. 2271–2276, 2017.
- [17] repository.dinus.ac.id, “Metodologi Desain Sistem Fuzzy,” pp. 1–18, 2020, [Online]. Available: https://repository.dinus.ac.id/docs/ajar/pert_ke_3_sistem_cerdas.pdf.
- [18] K. Ogata and P. P. Hall, “sistem Dynamics Fourth Edition,” 2004.
- [19] M. Zhuang and D. P. Atherton, “Optimum cascade PID kontroller design for SISO systems,” *IEE Conference Publication*, vol. 1, no. 389. pp. 606–611, 1994, doi: 10.1049/cp:19940201.
- [20] Abadi, Imam & Imran, Chairul & Fasa, Nadia. (2019). Smart solar tracking system based on fuzzy-Pi kontroller for maximizing the power of PV. AIP Conference Proceedings. 2088. 020022. 10.1063/1.5095274.