

## DAFTAR PUSTAKA

- Alvarez, R.E. (2011) ‘Estimator for photon counting energy selective x-ray imaging with multibin pulse height analysis’, *Medical Physics*, 38(5), pp. 2324–2334. Available at: <https://doi.org/10.1118/1.3570658>.
- Ayu Widya Purnama, P. and Arlis, S. (2019) ‘Peningkatan Kualitas Citra Ct-Scan Dengan Penggabungan Metode Filter Gaussian Dan Filter Median the Improvement Quality of Image Ct-Scan With Combining Gaussian Filter and Median Filter Method’, *Jurnal Teknologi Informasi dan Ilmu Komputer*, 6(6), pp. 591–600. Available at: <https://doi.org/10.25126/jtiik.20196870>.
- Bandyopadhyay, O., Chanda, B. and Bhattacharya, B.B. (2016) ‘Automatic Segmentation of Bones in X-ray Images Based on Entropy Measure’, *International Journal of Image and Graphics*, 16(1), pp. 122–129. Available at: <https://doi.org/10.1142/S0219467816500017>.
- Cahyono, B. (2016) ‘Penggunaan Software Matrix Laboratory (Matlab) Dalam Pembelajaran Aljabar Linier’, *Phenomenon : Jurnal Pendidikan MIPA*, 3(1), pp. 45–62. Available at: <https://doi.org/10.21580/phen.2013.3.1.174>.
- Cernazanu-glavan, C. and Holban, S. (2013) ‘2013] Segmentation of bone in X-ray images using CNN’, xx(x).
- Cosman, P.C., Gray, R.M. and Olshen, R.A. (1994) ‘Evaluating Quality of Compressed Medical Images: SNR, Subjective Rating, and Diagnostic Accuracy’, *Proceedings of the IEEE*, 82(6), pp. 919–932. Available at: <https://doi.org/10.1109/5.286196>.
- Fardela, R. and Kusminarto (2014) ‘Pengembangan Detektor Sinar-X Berbasis Fototransistor’, *Prosiding*, pp. 10–11. Available at: <https://doi.org/0216-3128>.
- Fritscher, K. et al. (2009) ‘Trabecular bone analysis in CT and X-ray images of the proximal femur for the assessment of local bone quality’, *IEEE Transactions on Medical Imaging*, 28(10), pp. 1560–1575. Available at: <https://doi.org/10.1109/TMI.2009.2020734>.
- Gong, Y. (2020) ‘Decompose X-ray Images for Bone and Soft Tissue’, 14(8), pp. 1–8.
- Havilda, N. et al. (2022) ‘An Improved Design of Flat Panel Detector with Phototransistor PH101 Analysis of The Tube Voltage Setting’, *Jurnal Teknokes*, 15(4), pp. 206–215. Available at: <https://doi.org/10.35882/teknokes.v15i4.464>.

- Ijemaru, G.K. *et al.* (2021) ‘Image processing system using matlab-based analytics’, *Bulletin of Electrical Engineering and Informatics*, 10(5), pp. 2566–2577. Available at: <https://doi.org/10.11591/eei.v10i5.3160>.
- Istofa, Sukandar and Yuniarsari, L. (2012) ‘Performance of Imaging on the X-Ray Image Capture Module’, *Prima*, 9, pp. 50–57.
- Ito, K. and Xiong, K. (2000) ‘Gaussian filters for nonlinear filtering problems’, *IEEE Transactions on Automatic Control*, 45(5), pp. 910–927. Available at: <https://doi.org/10.1109/9.855552>.
- Kasap, S.O. and Rowlands, J.A. (2002) ‘Direct-conversion flat-panel X-ray image sensors for digital radiography’, *Proceedings of the IEEE*, 90(4), pp. 591–604. Available at: <https://doi.org/10.1109/JPROC.2002.1002529>.
- Kazeminia, S. *et al.* (2015) ‘BONE EXTRACTION IN X-RAY IMAGES BY ANALYSIS OF LINE FLUCTUATIONS ECE Department , Isfahan University of Technology , Iran Department of Pattern Analysis & Computer Vision , Italian Institute of Technology , Italy Department of Emergency Medicine , Univers’, pp. 1–5.
- Luiz Antonio P. dos Santos, E.F. da S.Jr. (2018) ‘PHOTOTRANSISTOR: A DETECTOR FOR X-RAY BEAM DOSIMETRY Luiz’, *Angewandte Chemie International Edition*, 6(11), 951–952., 3(1), pp. 10–27.
- Mansour, W. *et al.* (2021) ‘FPGA-Based Real-Time Image Manipulation and Advanced Data Acquisition for 2-D-XRAY Detectors’, *IEEE Transactions on Nuclear Science*, 68(8), pp. 1927–1932. Available at: <https://doi.org/10.1109/TNS.2021.3086416>.
- Mayangsari, A.D. and Agung, I.W.P. (2024) ‘A Systematic Literature Review: Performance Comparison of Edge Detection Operators in Medical Images’, *Jurnal ELTIKOM*, 8(1), pp. 9–25. Available at: <https://doi.org/10.31961/eltikom.v8i1.1012>.
- Mulyana, D., Rismawan, T. and Suhery, C. (2022) ‘Application of Gaussian Filter and Histogram Equalization for Repair x-ray Image’, *Digital Zone: Jurnal Teknologi Informasi dan Komunikasi*, 13(1), pp. 34–43. Available at: <https://doi.org/10.31849/digitalzone.v13i1.9770>.
- Npiovaarat, M.J. and Wagner, R.F. (1993) *SNR and noise measurements for medical imaging: I. A practical approach based on statistical decision theory*, *Phys. Med. Biol.*
- Riedemann, J. *et al.* (2019) ‘Design and building of an automatic alternator synchronizer based on open-hardware arduino platform’, *IEEE Access*, 7, pp. 105116–105122. Available at: <https://doi.org/10.1109/ACCESS.2019.2932294>.

- Saselah, G., Weku, W. and Latumakulita, L. (2013) ‘Perbaikan Citra Digital dengan Menggunakan Filtering Technique dan Similarity Measurement’, *d'CARTESIAN*, 2(2), p. 1. Available at: <https://doi.org/10.35799/dc.2.2.2013.3203>.
- Scheunders, P. and De Backer, S. (2007) ‘Wavelet denoising of multicomponent images using Gaussian scale mixture models and a noise-free Image as priors’, *IEEE Transactions on Image Processing*, 16(7), pp. 1865–1872. Available at: <https://doi.org/10.1109/TIP.2007.899598>.
- Suyatno, F., Yuniarsari, L. and Syawaludin, B. (2009) ‘Perekayasaan Prototip Pesawat Sinar-X Diagnosis Berbasis Mikrokontroler’, *Prima*, 6, p. 39.
- Tapiovaara, M.J. and Wagner, R.F. (1993) ‘SNR and noise measurements for medical imaging: I. A practical approach based on statistical decision theory’, *Physics in Medicine and Biology*, 38(1), pp. 71–92. Available at: <https://doi.org/10.1088/0031-9155/38/1/006>.
- Torre, I.G. et al. (2020) ‘Scaling properties of binary and greyscale images in the context of X-ray soil tomography’, *Geoderma*, 365(February), p. 114205. Available at: <https://doi.org/10.1016/j.geoderma.2020.114205>.
- Vekemans, B. et al. (1994) ‘Analysis of X-ray spectra by iterative least squares (AXIL): New developments’, *X-Ray Spectrometry*, 23(6), pp. 278–285. Available at: <https://doi.org/10.1002/xrs.1300230609>.
- Wagner, R.F. and Brown, D.G. (1985) ‘Unified SNR analysis of medical imaging systems’, *Physics in Medicine and Biology*, 30(6), pp. 489–518. Available at: <https://doi.org/10.1088/0031-9155/30/6/001>.
- Wang, D. et al. (2013) ‘A fast auto-focusing technique for the long focal lens TDI CCD camera in remote sensing applications’, *Optics and Laser Technology*, 45(1), pp. 190–197. Available at: <https://doi.org/10.1016/j.optlastec.2012.07.005>.
- Wijaya, N.H., Budimansyah and Sukwono, D. (2020) ‘Wireless X-ray Machine Control Based on Arduino with Kv Parameters’, *Journal of Physics: Conference Series*, 1430(1). Available at: <https://doi.org/10.1088/1742-6596/1430/1/012040>.
- Winch, N.M. and Edgar, A. (2012) ‘X-ray imaging using digital cameras’, *Medical Imaging 2012: Physics of Medical Imaging*, 8313, p. 83135E. Available at: <https://doi.org/10.1117/12.911146>.
- Zhang, Y., Mostaghimi, P. and Armstrong, R.T. (2019) ‘On the challenges of greyscale-based quantifications using X-ray computed microtomography’, *Journal of Microscopy*, 275(2), pp. 82–96. Available at: <https://doi.org/10.1111/jmi.12805>.